NATIONAL COUNCIL FOR TECHNICAL EDUCATION

NOVEMBER 2022

PROPOSED OCCUPATIONAL STANDARDS

OCCUPATION: AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWER-PLANT)

LEVEL: NTA 6

TABLE OF CONTENT

Contents

FOREWORD

The National Council for Technical Education (NACTE) is a corporate body established by the National Council for Technical Education Act, Cap.129. The Act provides a legal framework for the Council to coordinate the provision of technical education and training in Tanzania. The mandate of NACTE is three-fold, namely; Regulatory, Quality Assurance and Policy Advisory.

In discharging its mandate, the Council has been charged with the responsibilities, among others, to:

(a) assist technical institutions in the transmission of knowledge, principles and training in the field of technical education and training for the benefit of the people of Tanzania;

(b) assist technical institutions in the overall development of the quality of education they provide and to promote and to maintain approved academic standards;

(c) establish and make awards in technical education which are consistent in standard and comparable to related awards in Tanzania and internationally; and

(d) ensure that the quality of education required for the awards is met and maintained throughout the duration of the delivery of the course.

In the course of execution of these responsibilities, the Council has been instituting various measures aiming at advancing the quality of training provided in technical institutions in respect of the changing demands of the labour market, both local and international.

To achieve the above obligation, NACTE, under the Ministry of Education, Science and Technology implemented the East Africa Skills for Transformation and Regional Integration Project (EASTRIP), a project aiming at promoting regional integration through supporting the regional corridors and sector markets, developing common standards and qualifications, and promoting mobility of students, faculty, and graduates. The project supports the Government of Tanzania to address shortage of skills in five sectors namely:

(a) Energy;

(b) Construction;

(c) Information and Communication Technology (ICT);

(d) Transportation; and

(e) Agri-business.

To address the skills, miss-match and shortage in the five (5) sectors in the country, the project funded, among others, a component of Development of Occupational Standards for

Technical and Vocational Education and Training (TVET). In this regard, NACTE endeavoured to identify qualified and highly experienced experts in the five sectors from both the industry and training institutions to carry out the development of Occupational Standards. The exercise was carried out at Morogoro Teachers College – Morogoro from 27th August to 24th September, 2021. The output of the exercise is Occupational Standards for 14 occupations. Occupational standards for Aircraft Maintenance Engineering Technician are among the occupational standards which have been developed.

Since Occupational Standards are statements of work performance reflecting the ability to successfully complete the functions required in an occupation, as well as the application of knowledge, skills, attitudes and understanding in an occupation, it is the Council's expectations that the developed standards will form a robust base for decision making and provide explicit guidance to policy makers, curriculum developers, educators, employers and other stakeholders in matters related to manpower planning as well as execution of Technical and Vocational Education and Training undertakings.

Prof. J. W. Kondoro
CHAIRMAN

Dar es Salaam
NOVEMBER 2022

ACKNOWLEDGEMENT

The National Council for Technical Education (NACTE) is charged with the mandate to be the Quality Assurance organ of the Government in matters related to Technical and Vocational Education and Training (TVET) and production of qualified manpower for both local and international labour markets. In order to realize this obligation, NACTE endeavours to institute policies, guidelines and standards and to set the quality benchmarks for training institutions.

However, this is only possible if there is a strong base, linking the training institutions on one hand and the demands of the industry/labour market for relevant manpower on the other hand. Therefore, the Council undertook a step to develop Occupational Standards in sectors considered to be the engine to steer the country's desire to achieve an industrial economy. This exercise would not be a success without the input and support from our stakeholders. I am indebted to acknowledge some of them here.

I wish to acknowledge and appreciate the support from the Ministry of Education, Science and Technology through the East Africa Skills for Transformation and Regional Integration Project (EASTRIP) for the financial support which facilitated the preparation of this document. I wish also to appreciate Mrs Leah Lukindo and Eng. Dr Simon Baregu for the tireless efforts and commitment in facilitating and guiding the standards development process, Ms. Eileen Tzamburakis, Ms. Chausiku Yakweli Ibrahim and Ms. Nuru Shirima for compiling and type setting the final document; and the NACTE Secretariat for coordinating the whole activity.

In a very special way, I wish further to extend my sincere gratitude to this team of wonderful experts who tirelessly dedicated their time and availed their invaluable intellect in the preparation of this document. I would like to recognise the colossal inputs of the following experts:

S/N	Name	Designation	Organization

1	Eng. Frank Kapombe	Assistant Lecturer	National Institute of Transport (NIT)
2	Eng. Isaiah Camara	Certifying Aircraft Maintenance Engineer	Air Tanzania Company Limited (ATCL)
3	Eng. Abubakar Noor	Tutorial Assistant	National Institute of Transport (NIT)

In addition, the Council hopes to further enhance the internationalization of Occupational Standard and promote the modernization and internationalization of industries in Tanzania, so as to facilitate Tanzania's integration into the international market and tap its development potential. Therefore, the Council invited the China - Africa Vocational Education Alliance, China - Africa (Chongqing) Vocational Education Alliance, and Chinese vocational colleges to participate in the development, revision, and review of the Occupational Standard documents. It is firmly believed that they will provide strong support for the development of vocational education and related industries in Tanzania based on their rich experience in vocational education, relying on China's advanced and complete industrial chain as well as its status in the international market.

Therefore, I would like to express my heartfelt appreciation to this professional team composed of Chinese colleges, institutions and experts for their hard work and dedication. They've made great contributions to the compilation of this document. I would like to thank the following colleges and experts for their support.

S/N	**Organization**	**Name**	**Professional Title/Field**
1		Li Leibo	Senior Engineer/ Aviation Maintenance
2		Huang Jie	Professional Technology Level 11/ Aviation Maintenance
3	Dongying Vocational Institute	Ma Baiping	Senior Engineer/ Aviation Maintenance
4		Ren Qiangqiang	None/ Aviation Maintenance
5		Liu Li	Lecturer/ Aviation Maintenance
6		Kuang Linfeng	Engineer/ Aviation Maintenance
7		Li Yang	Senior Engineer/ Aviation Maintenance
8	Chongqing City Vocational College	Zhang Jiechuan	Intermediate Engineer/ Aviation Maintenance
9		Hu Zhigang	Senior Engineer/Aviation Manufacturing
10		Tan Mingwei	None/Aviation Material

Dr. A. B. Rutayuga
EXECUTIVE SECRETARY

Dar es Salaam
NOVEMBER 2022

ABBREVIATIONS

AMM	Aircraft Maintenance Manual
AMO	Approved Maintenance Organization
AMP	Approved Maintenance Program
AOA	Angle of Attack
APU	Auxiliary Power Unit
ELT	Emergency Locator Transmitter
FIM	Fault Isolation Manual
HP	High Pressure
LP	Low Pressure
MPM	Maintenance Procedure Manual
MPU	Magnetic Pick-up Unit
NACTE	National Council for Technical Education
NOS	National Occupational Standards
OS	Occupational Standards
OSG	Over-speed Governor
PBE	Protective Breathing Equipment
PCU	Pitch Control Unit
PEC	Propeller Electronic Control
PPE	Personal Protective Equipment
SRM	Structural Repair Manual
TCAA	Tanzania Civil Aviation Authority
TET	Technical Education and Training
TVET	Technical and Vocational Education and Training

GLOSSARY OF TERMS

Circumstantial knowledge:	Detailed knowledge, which allows the decision-making in regard to different circumstances and cross cutting issues
Competence:	The ability to use knowledge, understanding, practical and thinking skills to perform effectively to the workplace standards required in employment.
Competency:	A description of the ability one possesses when able to perform a given occupational task effectively and efficiently.
Competency-based education:	An instructional program that derives its content from validated tasks and bases assessment on the learner's performance
Curriculum:	A description or composite of statements about "what is to be learned" by the trainee/student in a particular instructional programme; a product that states the "intended learning outcomes".
Educational/Training programme:	The complete curriculum and instruction (what and how) that is designed to prepare a person for employment in a job or other particular performance situation.
Occupation:	A specific position requiring the performance of specific tasks – essentially the same tasks are performed by all employees having the same title. (Example: baker)
Occupational analysis:	A process used to identify the tasks that are important to employees in any given occupation
Occupational area	This is a broad grouping of related jobs. Example: food service
Occupational Standards:	Specific requirements of competences people are expected to demonstrate in a particular occupational area, including knowledge and relevant attitudes. They also act as performance tool of assessment of the pre – scribed outcomes.
Performance criteria:	Indicate the expected end results or outcome in form of evaluative statements.
Skill:	The ability to perform occupational tasks with a high degree of proficiency within a given occupation. Skill is conceived of as

	a composite of three completely interdependent components: cognitive, affective, and psychomotor.
Standard:	it is a set of statements, which if proved true under working conditions, means that an individual is meeting an expected level and type of performance
Task analysis:	The process of analysing each task to determine the steps, related knowledge, attitudes, performance standards, tools and materials needed, and safety concerns required of employees performing it.
Task:	A work activity that has a definite beginning and ending, is observable or measurable, consists of two or more definite steps, and leads to a product, service, or decision.
Underpinning Knowledge:	This is crucial knowledge that an individual must acquire in order to demonstrate competences that are associated in performing a given task.
Verification:	The process of having experts review and conform the importance of the task (competency) statements identified through occupational analysis. Other questions, such as the degree of task learning difficulty are also frequently asked. This process is also sometimes referred to as validation.
Occupational Competence	The application of knowledge and skills to perform consistently to the standards required in the work context.

1.0 INTRODUCTION

Technical Education and Training (TET) is one of the most important education sub-sectors in Tanzania, responsible for developing a skilled workforce to support the country's industrialization economic agenda. Tanzania's Development Vision 2025 intends to raise the country's economy to a middle-income status. This requires a skilled workforce that is aligned with the needs of the public and private sectors of the economy. The National Council for Technical Education has begun the job of drafting Occupational Standards that will eventually be adopted as National Occupational Standards for TET in order to ensure that it meets the needs of the labour market and the country's economic agenda.

National Occupational Standards (NOS) are performance criteria that are matched with labour market demands. Each National Occupation Standard describes functions, performance standards, and knowledge/understanding for one important function or task. They combine skills, knowledge, and attitudes to describe best practice. They are useful tools for establishing job roles, personnel recruiting, supervision, and appraisal, as well as TET standards. They're also helpful for benchmarking and harmonizing qualifications on a national and international level. Standards, in general, provide a solid framework for high-quality TET that is labour market-relevant, current and consistent in delivery across all public and private institutions.

However, it must be noted that, Occupational Standards and Training standards/qualifications standards are different. Occupational standards are defined in terms of activities performed by a person in a selected occupation (e.g., an electrical engineer designs electrical wiring circuits, performs trouble shooting in electrical wiring, etc.) and they are usually defined by employers following procedures agreed upon by all stakeholders. Education and training standards are developed from the activities defined in occupational standards, and they include learning objectives to ensure that the necessary skills and knowledge are developed by a person to enable him or her to function at an agreed level in an occupation. Education and Training standards are used to define curricula in training institutions. It is however critical that there must be a direct link between the occupational standards and the training standards to respond to demands of the labour market.

In TET delivery, Tanzania adopted the Competency-based Education and Training (CBET) approach. The CBET approach focuses on providing learners with the skills and knowledge required to meet the occupational standards. Occupational standards are thus the starting point for developing Competency-based Education and Training (CBET) programs. TET institutions will be required to benchmark their curricula with relevant occupational standards.

Occupational Standards are developed based on a given occupation's current and future demands. As a result, they serve as a means of bridging the gap between the worlds of employment and technical education and training (TET).

The Aircraft Maintenance Engineer Occupation has its own set of occupational standards. The document explains how the occupational standards were developed, as well as the scope, the occupational profile in the form of DACUM charts, and the Occupational Standards.

2.0 OCCUPATIONAL STANDARD DEVELOPMENT PROCESS

The Occupational standards development process began with an examination of major documents that guide Tanzanian skill development. The 10-year National Skills Development Strategy (2016-2026) was one of the documents reviewed, and it outlined six (6) economic sectors that should be prioritized when developing skills development programmes. These sectors include: Transport and logistics, Tourism and Hospitality, Agribusiness, Construction, Energy and ICT. NACTE labour market reports were also used in the literature review to determine the skills demand in the Tanzanian labour market as a whole.

After the literature review, a workshop comprised of expert workers and educators with substantial knowledge and experience in the occupation conducted an occupational analysis utilizing the DACUM approach to produce the occupational profile. The analysis resulted in DACUM Charts, which are attached as **Appendix 1** to this document.

The workshop thereafter continued with the development of occupational standards. Experts in Occupational Analysis and Occupational Standards Development facilitated the workshop. Interviews, online surveys, and a stakeholder forum were used to validate the occupational standards. Engineers, supervisory technicians on the job, and experienced Aircraft

Maintenance technicians were key informants in the survey to discover occupational trends. This information was used to gain insight from the workplaces regarding trends and changes in the profession, including how well graduates are prepared for working in the occupation. A total of …….. online surveys were completed by experts from the labour market across the country. Apart from the survey aiding in defining the scope for the occupational analysis, they served to engage a wide cross-section of experts in the occupation. The stakeholders' forum was attended by ……. participants from different parts of the country representing various companies.

3.0. THE SCOPE AND OVERVIEW OF THE OCCUPATION STANDARDS FORAIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN

These standards cover a broad range of duties and tasks that can be performed by Aircraft Maintenance Engineering Technician. However, the occupational standards are not meant to replace individual job descriptions, they are to be used for guidance in defining skill levels and knowledge for the technician in specific settings or positions. The Aircraft Maintenance Engineering Technician may perform tasks in a number of key areas of the occupational standards, but not necessarily in all areas. For example, in large Approved Maintenance Organizations (AMO) other individuals may be employed or designated to perform specific tasks.

The Aircraft Maintenance Engineering Technician works in the Approved Maintenance Organization (AMO) to maintain, repair and service different aircrafts operating in the air transport industry. Air transport includes cargo-carrying and passenger-carrying aircraft, these aircrafts are called commercial aircrafts. Commercial aircraft move goods and people from one part of the world to the other through air, operated by a cadre of trained and qualified staff. There are many types of aircrafts and of various sizes, models, and different operating specifications. Aircraft Maintenance Engineering Technicians play an important role in ensuring compliance with airworthiness requirements of an aircraft in accordance with Tanzania Civil Aviation Authority (TCAA) Regulations. Aircraft Maintenance Engineering Technician covers the following duties under supervision of certifying Aircraft Maintenance Engineer:

a) Perform routine cleaning of aircraft components and equipment, routine component replacement and maintenance of aircraft systems;
b) Clean aircraft airframe structure, perform routine general visual inspection of aircraft airframe structure and maintenance of aircraft airframe structure;
c) Clean auxiliary power unit and accessories, perform routine component replacement and maintenance of Aircraft Auxiliary Power Unit (APU);
d) Clean piston engine and accessories, perform routine component replacement and maintenance of aircraft piston engine;
e) Clean gas turbine engine and accessories, perform routine component replacement and maintenance aircraft gas turbine engine;

f) Clean aircraft propeller and accessories, perform routine component replacement and maintenance of aircraft propellers;
g) Verify aircraft airworthiness compliance with Tanzania Civil Aviation Regulations; and
h) Perform aircraft ground handling operations.

The Occupational standards have been clustered into NTA qualification levels i.e. NTA level 4, 5 and 6

4.0. VALIDITY PERIOD

The occupational standards will be valid for 3-5 years due to the fast-changing nature of technology. The review will proceed in the same manner as the previous one, with new occupational standards being developed based on current labour market information

5.0. OCCUPATIONAL STANDARDS

5.1. OCCUPATIONAL STANDARDS FOR AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWER-PLANT) NTA 6

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN	**OCCUPATION CODE**	3143
DUTY TITLE	VERIFY AIRCRAFT'S AIRWORTHINESS COMPLIANCE WITH TCAA REGULATIONS	**DUTY NO.**	601
TASK TITLE	INSPECT RELEVANT ON-BOARD AIRCRAFT DOCUMENTS	**TASK NO.**	6011
Performance criteria	The person performing this task must be able to carry out inspection of relevant onboard aircraft documents as prescribed by TCAA regulations.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: Pen, File and TCAA regulations.		

EVIDENCE REQUIREMENTS	
PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Select tools for the task; 2. Observe health and safety when carrying out the task; 3. Observe Tanzania Civil Aviation Regulation; 4. Identify onboard aircraft documents to be inspected; 5. Inspect the relevant onboard aircraft documents as per TCAA regulations; 6. Check documents validity; 7. Remove and report documents which are due for renewal; 8. Replace the removed documents; 9. Return aircraft onboard documents to normal configuration; 10. Sign aircraft documentation checklist;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to verify document validity. **2.0. Principles** The person must be able to explain the principles of: 2.1. Inspection of the onboard aircraft documents; 2.2. Validating of the onboard aircraft documents; 2.3. Determining validity of the onboard aircraft documents. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Onboard aircraft documentation. **4.0. Essential skills** 4.1. Team spirit; 4.2. Communication skills; 4.3. Time management skills; 4.4. Commitment; 4.5. Computer skills;

11. Submit document checklist to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.6. Critical thinking skills; 4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	Inspection of the relevant onboard aircraft documents is performed as per TCAA regulations.
Circumstantial knowledge	1. Safe handling of onboard aircraft documents 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	VERIFY AIRCRAFT'S AIRWORTHINESS COMPLIANCE WITH TCAA REGULATIONS	**DUTY NO.**	601
TASK TITLE	RELEASE THE AIRCRAFT TO SERVICE ON COMPLETION OF MAINTENANCE ACTIVITIES	**TASK NO.**	6012
Performance criteria	The person performing this task must be able to carry out the task of releasing aircraft to service after maintenance activities as per approved AMM.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: Maintenance Work package and AMM.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Select tools for the task; 2. Observe health and safety when carrying out the task; 3. Observe Tanzania Civil Aviation Regulation; 4. Review maintenance work package and job instruction cards as per TCAA regulations; 5. Record the maintenance activities carried out; 6. Handover paper work after completion of maintenance activities; 7. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to review aircraft maintenance work package **2.0. Principles** The person must be able to explain the principles of: 2.1 Processing of the aircraft maintenance work package; 2.2 Documenting of maintenance activities. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 AMM; 3.3 Aircraft Work Package Documentation. **4.0. Essential skills** 4.1 Communication skills; 4.2 Time management skills; 4.3 Commitment;

	4.4 Computer skills; 4.5 Critical thinking skills; 4.6 Problem solving skills; 4.7 Ability to work under pressure; 4.8 Interpersonal skills.
Description on the end products / service	Release of aircraft to service on completion of maintenance activities is processed as per MPM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIR CONDITIONING SYSTEM	**TASK NO.**	6021
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's air conditioning system as per approved AMM and AMP.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: Tool kit, Torque wrenches, Flashlight, Cotton rags and P.P.E.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Supply power to the aircraft using ground power unit; 6. Supply Air to the conditioning system using ground air source unit; 7. Energize air conditioning system; 8. Use job instruction card to perform inspection of: a) Heat exchanger; b) Duct temperature sensor; c) Cabin temperature sensor; d) Air condition ducts; e) Outflow valves; f) Safety valves. 9. Use job instruction card to perform check of: a) Air cycle machine; b) Ram air fan; c) Condenser;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of air conditioning system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft air conditioning system; 2.2. Assembling and disassembling component of aircraft air conditioning system; 2.3. Determining serviceability of air conditioning system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills

d) Pack bypass valves; e) Pack flow control valves; f) Water collector; g) Crew temperature sensor and indicators. 10. Carry out operational test; 11. Return aircraft to normal configuration; 12. Clean work area, tools and components; 13. Store tools, equipment and safety gear appropriately; 14. Sign job instruction cards and maintenance work package; 15. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Scheduled maintenance of aircraft's air conditioning system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE ON AIR CONDITIONING SYSTEM	**TASK NO.**	6022
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's air conditioning system as per approved AMM and FIM.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: Tool kit, Torque wrenches, Flashlight, Wrist strap, Cotton rags and P.P.E.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on the air conditioning system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Supply power to the aircraft using ground power unit; 7. Supply Air to the conditioning system using ground air source unit; 8. Energize air conditioning system; 9. Use FIM to troubleshoot: a) Air distribution and recirculation; b) Avionics equipment ventilation; 10. Rectify defect root cause; 11. Perform operational test as per AMM; 12. Return aircraft to normal configuration; 13. Clean work area, tools and components; 14. Store tools, equipment and safety	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of the air conditioning system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft air conditioning system; 2.2. Assembling and disassembling component of aircraft air conditioning system; 2.3. Determining serviceability of air conditioning system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills;

gear appropriately; 15. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Unscheduled maintenance of aircraft's air conditioning system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S FUEL SYSTEM	**TASK NO.**	6023
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's fuel system as per approved AMM and AMP.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: Tool kit, Torque wrenches, Explosimeter (Gas detector), Fuel drain tool, Flashlight, Cotton rags and P.P.E.		

EVIDENCE REQUIREMENTS	
PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Supply power to the aircraft using ground power unit; 6. Use job instruction card to perform inspection of: a) Fuel temperature sensor; b) Fuel filters; c) Fuel level sensors; d) Fuel quantity indicator; e) Fuel tank heat exchanger; 7. Use job instruction card to perform check of: a) Fuel feed system; b) Tank to tank fuel transfer system; c) Fuel computer; d) Fuel pumps;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of the aircraft fuel system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply power to the aircraft using ground power unit. **2.0. Principles:** The person must be able to explain the principles of: 2.1. Operation of aircraft fuel system; 2.2. Special specification for fuel system maintenance; 2.3. Assembling and disassembling component of aircraft fuel system; 2.4. Determining serviceability of aircraft fuel system. **3.0. Theories:** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills;

e) Fuel drain valves; f) Cross feed valve; g) Fuel shut off valves; h) Main fuel tanks; i) Surge tanks; j) Fuel pressure sensors; 8. Carry out operational test as per AMM; 9. Return aircraft to normal configuration; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Sign job instruction cards and maintenance work package; 13. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Scheduled maintenance of aircraft's fuel system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE ON AIRCRAFT'S FUEL SYSTEM	**TASK NO.**	6024
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's fuel system as per approved AMM and FIM.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: Tool kit, Torque wrenches, Flashlight, Wrist strap, Cotton rags and P.P.E.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on the aircraft fuel system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Supply power to the aircraft using ground power unit; 7. Use FIM to troubleshoot: a) Fuel feed system; b) Fuel transfer system; 8. Rectify defect root cause; 9. Perform operational test as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and components; 12. Store tools, equipment and safety gear appropriately; 13. Submit aircraft technical logbook to certifying aircraft maintenance	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of the aircraft fuel system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft fuel system; 2.2. Special specification for fuel system maintenance; 2.3. Determining serviceability of aircraft fuel system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills;

engineer for signing of aircraft certificate of release to service.	4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Unscheduled maintenance of aircraft's fuel system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S FLIGHT CONTROL SYSTEM	**TASK NO.**	6025
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's flight control system as per approved AMM and AMP.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: Tension meter, Rigging pins, Force gauge, Ground power unit, Lock collar, Target de-actuator, Torque wrench and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Supply power to the aircraft using ground power unit; 6. Energize flight control system; 7. Use Job Instruction Card to maintain: a) Aileron and aileron trim control system; b) Rudder and ruddertrim control system; c) Elevator and tab control system; d) Horizontal stabilizer trim control system; e) Flight spoiler control system; f) Speed brake control system; 8. Carry out operational test as per	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of aircraft flight control system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft flight control system; 2.2. Determining serviceability of aircraft flight control system; 2.3. Assembling and disassembling component of flight control system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills;

AMM; 9. Return aircraft to normal configuration; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Sign job instruction cards and maintenance work package 13. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Scheduled maintenance of aircraft's flight control system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S FLIGHT CONTROL SYSTEM	**TASK NO.**	6026
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's flight control system as per approved AMM and FIM.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: Tension meter, Rigging pins, Force gauge, Ground power unit, Lock collar, Target de-actuator, Torque wrench and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on the aircraft flight control system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Supply power to the aircraft using ground power unit; 7. Energize flight control system; 8. Use FIM to troubleshoot: a) Aircraft flight control system; 9. Carry out operational test as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and components; 12. Store tools, equipment and safety gear appropriately; 13. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of the flight control system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles:** The person must be able to explain the principles of: 2.1. Operation of aircraft flight control system; 2.2. Determining serviceability of aircraft flight control system; 2.3. Assembling and disassembling components of flight control system; 2.4. Troubleshooting aircraft flight control system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills;

certificate of release to service.	4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Unscheduled maintenance of aircraft's flight control system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S HYDRAULIC SYSTEM	**TASK NO.**	6027
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's hydraulic system as per approved AMM and AMP.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags, containers, alcohol and seals.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Supply power to the aircraft using ground power unit; 6. Use job instruction card to perform inspection of: a) Hydraulic filters; 7. Use job instruction card to perform check of: a) Hydraulic reservoir; b) Hydraulic level sensor; c) Engine driven hydraulic pumps; d) Electric hydraulic pumps; e) Hydraulic pipes; f) Hydraulic pressure sensors; g) Hydraulic isolation valve; h) Hydraulic shut off valve;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of the aircraft hydraulic system Use aircraft maintenance tool kit; 1.2. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft hydraulic system; 2.2. Assembling and disassembling component of aircraft hydraulic system; 2.3. Determining serviceability of aircraft hydraulic system; 2.4. Special Precautions for hydraulic system maintenance. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills;

i) Hydraulic pressure relief valves; j) Hydraulic temperature sensors; k) PTU. 8. Use job instruction card to maintain: a) Hydraulic accumulator; b) Ram air turbine (hydraulic); c) Hydraulic heat exchanger; d) Alternate extension hydraulic system; 9. Carry out operational test as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and components; 12. Store tools, equipment and safety gear appropriately; 13. Sign job instruction cards and maintenance work package; 14. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Scheduled maintenance of aircraft's hydraulic system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE ON AIRCRAFT HYDRAULIC SYSTEM	**TASK NO.**	6028
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's hydraulic system as per approved AMM and FIM.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: Tool kit, Torque wrenches, Flashlight, Wrist strap, Cotton rags and P.P.E.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on the aircraft hydraulic system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Supply power to the aircraft using ground power unit; 7. Use FIM to troubleshoot hydraulic system; 8. Use AMM to check: a) Hydraulic isolation valve; b) Hydraulic shut off valve; c) Hydraulic pressure relief valves; d) Leak on hydraulic pipes; 9. Rectify defect root cause; 10. Perform operational test as per AMM; 11. Return aircraft to normal configuration; 12. Clean work area, tools and components;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of the aircraft fuel system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft hydraulic system; 2.2. Determining serviceability of aircraft hydraulic system; 2.3. Special Precautions for hydraulic system maintenance. **3.0. Theories:** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills;

13. Store tools, equipment and safety gear appropriately; 14. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Unscheduled maintenance of aircraft's hydraulic system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S OXYGEN SYSTEM	**TASK NO.**	6029
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's oxygen system as per approved AMM and AMP.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench, Tool kit and Manual deployment tool.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Supply power to the aircraft using ground power unit; 6. Use Job Instruction Card to maintain: a) Crew oxygen cylinder; b) Protective breathing equipment (PBE); c) Aircraft flight control system; d) Oxygen-Mask Storage Box; e) Passenger Mask Release; 7. Use Job Instruction Card to inspect: a) Oxygen delivery pipes; b) Oxygen quantity indicator; 8. Carry out operational test as per AMM; 9. Return aircraft to normal	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of the oxygen system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft oxygen system; 2.2. Determining serviceability of oxygen system; 2.3. Assembling and disassembling components of aircraft oxygen system; 2.4. Special Precautions for Oxygen System maintenance. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills;

configuration; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Sign job instruction cards and maintenance work package; 13. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Scheduled maintenance of aircraft's oxygen system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S OXYGEN SYSTEM	**TASK NO.**	60210
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's oxygen system as per approved AMM and FIM.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench, Tool kit and Manual deployment tool.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on the aircraft oxygen system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Supply power to the aircraft using ground power unit; 7. Use FIM to troubleshoot oxygen system; 8. Check oxygen delivery pipes as per AMM; 9. Carry out operational test as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and components; 12. Store tools, equipment and safety gear appropriately;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of aircraft oxygen system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft oxygen system; 2.2. Determining serviceability of oxygen system; 2.3. Assembling and disassembling components of aircraft oxygen system; 2.4. Special Precautions for Oxygen System maintenance. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills;

13. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Unscheduled maintenance of aircraft's oxygen system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S ICE AND RAIN PROTECTION SYSTEM	**TASK NO.**	60211
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's ice and rain protection system as per approved AMM and AMP.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe TCAA regulations; 5. Supply power to the aircraft using ground power unit; 6. Use Job Instruction Card to maintain: a) De-icing timer unit control; b) Ice detection system; c) Windshield wiper system; 7. Use Job Instruction Card to inspect: a) Airframe deicer boots; b) Engine intake deicer boots; c) Windshields and pilot side window panels; d) Pitot-static probe heaters; e) Angle of attack heaters; f) Static probes heaters; g) Propeller blade heaters; h) Brush block, bracket unit and slip rings;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of the oxygen system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft ice and rain system; 2.2. Determining serviceability of ice and rain system; 2.3. Assembling and disassembling components of aircraft ice and rain system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills;

i) Ice detector probes; j) Drain mast ice protection; 8. Carry out operational test as per AMM; 9. Return aircraft to normal configuration; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Sign job instruction cards and maintenance work package; 13. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Scheduled maintenance of aircraft's ice and rain system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S ICE AND RAIN PROTECTION SYSTEM	**TASK NO.**	60212
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's ice and rain protection system as per approved AMM and FIM.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on the aircraft ice and rain protection system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Supply power to the aircraft using ground power unit; 7. Use FIM to troubleshoot: a) Ice detection system; b) Windshield wiper system; c) De-icing timer unit control; 8. Carry out operational test as per AMM; 9. Return aircraft to normal configuration; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of aircraft ice and rain protection system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft ice and rain protection system; 2.2. Determining serviceability of aircraft ice and rain protection system; 2.3. Assembling and disassembling components of aircraft ice and rain protection system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills**

12. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Unscheduled maintenance of aircraft's ice and rain protection system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S PNEUMATIC SYSTEM	**TASK NO.**	60213
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's pneumatic system as per approved AMM and AMP.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench and seals.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Supply power to the aircraft using ground power unit; 6. Use job instruction card to maintain: a) Engine bleed air system; b) APU bleed air system; c) Bleed ducts; d) Bleed air check valves; e) Pneumatic system leak; 7. Use job instruction card to inspect: a) Bleed air valves; b) HP shut off valves; c) Flow sensor; d) Flow temperature sensor; e) Pneumatic valve; 8. Carry out operational test as per	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of the aircraft pneumatic system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft pneumatic system; 2.2. Assembling and disassembling component of aircraft pneumatic system; 2.3. Determining serviceability of aircraft pneumatic system. **3.0. Theories** The person must be able to explain: 3.1. Tanzania Civil Aviation Authority; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills**

AMM; 9. Return aircraft to normal configuration; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Sign job instruction cards and maintenance work package; 13. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Scheduled maintenance of aircraft's pneumatic system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S PNEUMATIC SYSTEM	**TASK NO.**	60214
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's pneumatic system as per approved AMM and AMP.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench and seals.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft pneumatic system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Supply power to the aircraft using ground power unit; 7. Use FIM to troubleshoot aircraft pneumatic system; 8. Use job instruction card to carry out repair of bleed air ducts; 9. Carry out operational test as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and components; 12. Store tools, equipment and safety gear appropriately; 13. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of the aircraft pneumatic system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft pneumatic system; 2.2. Assembling and disassembling component of aircraft pneumatic system; 2.3. Determining serviceability of aircraft pneumatic system. **3.0. Theories** The person must be able to explain: 3.1. Tanzania Civil Aviation Authority; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment;

certificate of release to service.	4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Unscheduled maintenance of aircraft's pneumatic system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S LANDING GEAR SYSTEMS	**TASK NO.**	60215
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's landing gear systems as per approved AMM and AMP.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Axle jacks, Ground lock pins, Axle nut sockets, Ground power unit, Hydraulic power unit, Target de-actuator (copper) and Target actuator (steel).		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to inspect: a) Nose and main landing gear shock strut and drag strut; b) Yoke and stabilizer brace of main landing gear; c) Landing gear doors; d) Landing gears wheels; e) Nose wheel steering system; f) Wheel break unit. 6. Use job instruction card to maintain: a) Roller and up lock of main landing gear; b) Nose and main landing gear retraction control system; c) Nose and main landing gear	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of the aircraft landing gear systems; 1.2. Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft landing gear systems; 2.2. Assembling and disassembling component of aircraft landing gear systems; 2.3. Determining serviceability of aircraft landing gear systems. **3.0. Theories** The person must be able to explain: 3.1. Tanzania Civil Aviation Authority; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment;

extension control system; d) Landing gear alternate extension system; e) Landing gear brake system; f) Landing gear antiskid system; g) Landing gear proximity sensing system; 7. Carry out operational test as per AMM; 8. Return aircraft to normal configuration; 9. Clean work area, tools and components; 10. Store tools, equipment and safety gear appropriately; 11. Sign job instruction cards and maintenance work package; 12. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Scheduled maintenance of aircraft's landing gear system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S LANDING GEAR SYSTEMS	**TASK NO.**	60216
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's landing gear systems as per approved AMM and AMP.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Axle jacks, Ground lock pins, Axle nut sockets, Ground power unit, Hydraulic power unit, Target de-actuator (copper) and Target actuator (steel).		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft landing gear systems; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Supply power to the aircraft using ground power unit; 7. Use FIM to troubleshoot: a) Nose and main landing gear brake systems; b) Antiskid system; c) Proximity sensor system; d) Steering system; e) Landing gear extension and retraction system; 8. Carry out operational test as per AMM; 9. Return aircraft to normal configuration; 10. Clean work area, tools and	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of the aircraft landing gear systems; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft landing gear systems; 2.2. Assembling and disassembling component of aircraft landing gear systems; 2.3. Determining serviceability of aircraft landing gear systems. **3.0. Theories** The person must be able to explain: 3.1. Tanzania Civil Aviation Authority; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills**

components; 11. Store tools, equipment and safety gear appropriately; 12. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Unscheduled maintenance of aircraft's landing gear system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S WATER AND WASTE SYSTEM	**TASK NO.**	60217
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's water and waste system as per approved AMM and AMP.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe TCAA regulations; 5. Supply power to the aircraft using ground power unit; 6. Use Job Instruction Card to inspect: a) Potable Water System; b) Potable Water Tank; c) Water Quantity Indication System; d) Lavatory wash water system; e) Ground service panel; f) Water tank assembly; g) Floor drain pipe; h) Toilet unit; i) Lavatory water filter; j) Lavatory waste disposal unit; k) Lavatory service panel; l) Vent line and muffler; m) Control cables;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of the water and waste system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft water and waste system; 2.2. Determining serviceability of aircraft water and waste system; 2.3. Assembling and disassembling components of aircraft water and waste system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills**

n) Waste water drain pipe; 7. Carry out operational test as per AMM; 8. Return aircraft to normal configuration; 9. Clean work area, tools and components; 10. Store tools, equipment and safety gear appropriately; 11. Sign job instruction cards and maintenance work package; 12. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Scheduled maintenance of aircraft's water and waste system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S WATER AND WASTE SYSTEM	**TASK NO.**	60218
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's water and waste system as per approved AMM and FIM.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on the aircraft water and waste system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Supply power to the aircraft using ground power unit; 7. Use FIM to troubleshoot: a) Water quantity transmitter; b) Pressure relief valve; c) Cable control unit; d) Drain valve; e) Air stop valve; f) Pump filter; g) Lavatory water filter; h) Toilet unit; i) Lavatory service panel; j) Motor-driven pump; 8. Carry out operational test as per AMM; 9. Return aircraft to normal	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of aircraft water and waste system; 1.2. Use aircraft maintenance tool kit; 1.4. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft water and waste system; 2.2. Determining serviceability of aircraft water and waste system; 2.3. Assembling and disassembling components of aircraft water and waste system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills;

configuration; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Unscheduled maintenance of aircraft's water and waste system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF THE AIRCRAFT'S FIRE PROTECTION SYSTEM	**TASK NO.**	60219
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's fire protection system as per approved AMM and AMP.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench, Wrist strap and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe TCAA regulations; 5. Use Job Instruction Card to maintain: a) Engine fire detection system; b) Engine fire extinguishing system; c) Cargo fire detection system; d) Cargo fire extinguishing system; e) Lavatory smoke detection system; f) Lavatory fire extinguishing system; g) APU fire detection system; h) APU fire extinguishing system; 6. Carry out operational test as per	**Detailed knowledge about:** **1.0. Methods:** The person performing this task must be able to explain how to: 1.1. Perform operational tests of aircraft fire protection system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft fire protection system; 2.2. Determining serviceability of aircraft fire protection system; 2.3. Assembling and disassembling components of aircraft fire protection system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills;

AMM; 7. Return aircraft to normal configuration; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately; 10. Sign job instruction cards and maintenance work package; 11. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Scheduled maintenance of aircraft's fire protection system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT SYSTEMS	**DUTY NO.**	602
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S FIRE PROTECTION SYSTEM	**TASK NO.**	60220
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's fire protection system as per approved AMM and FIM.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench, Wrist strap and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on the aircraft fire protection system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Supply power to the aircraft using ground power unit; 7. Use FIM to troubleshoot: a) Engine fire detection system; b) Engine fire extinguishing system; c) Cargo fire detection system; d) Cargo fire extinguishing system; e) Lavatory Smoke Detection system; f) Lavatory fire extinguishing system; g) APU fire detection system; h) APU fire extinguishing system; 8. Carry out operational test as per AMM; 9. Return aircraft to normal	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational tests of aircraft fire protection system; 1.2. Use aircraft maintenance tool kit; 1.3. Supply of power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft fire protection system; 2.2. Determining serviceability of aircraft fire protection system; 2.3. Assembling and disassembling components of aircraft fire protection system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment;

configuration; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Unscheduled maintenance of aircraft's fire protection system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	603
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S STABILIZERS STRUCTURE	**TASK NO.**	6031
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's stabilizers structure as per approved AMM and AMP.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench, Tool kit, Flashlight, Cotton rags and Flexible Borescope machine.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe TCAA regulations; 5. Clean area to be inspected; 6. Use Job Instruction Card to perform borescope inspection of: a) Internal structure of vertical stabilizers; b) Internal structures of horizontal stabilizers; c) Internal structures of elevator; d) Internal structures of rudder; 7. Return aircraft to normal configuration; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately; 10. Sign job instruction cards and maintenance work package; 11. Submit maintenance work package	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform detailed inspection of aircraft stabilizers structure; 1.2. Use aircraft maintenance tool kit; 1.3. Use borescope machine. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft stabilizers structure; 2.2. Determining the degree of structural integrity of aircraft stabilizer structure as per aircraft SRM. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills;

to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Scheduled maintenance of aircraft's stabilizers structure is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	603
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S STABILIZERS STRUCTURE	**TASK NO.**	6032
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's stabilizers structure as per approved AMM and SRM.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench, Flashlight and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on the aircraft stabilizers structure; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Clean area to be inspected; 7. Use job instruction card to perform detailed visual inspection of: a) External structure of aircraft stabilizers; b) Internal structure of aircraft stabilizers; 8. Use SRM to perform damage evaluation on: a) External structure of aircraft stabilizers; b) Internal structure of aircraft stabilizers; 9. Report structural damage on: a) External structure of aircraft	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform detailed inspection of aircraft stabilizers structure; 1.2. Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft stabilizers structure; 2.2. Determining the degree of structural integrity of aircraft stabilizer structure as per aircraft SRM. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure;

stabilizers; b) Internal structure of aircraft stabilizers; 10. Return aircraft to normal configuration; 11. Clean work area, tools and components; 12. Store tools, equipment and safety gear appropriately; 13. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.8. Interpersonal skills.
Description on the end products / service	Unscheduled maintenance of aircraft's stabilizers structure is performed as per AMM, SRM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	603
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S FUSELAGE STRUCTURE	**TASK NO.**	6033
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's fuselage structure as per approved AMM, AMP and SRM.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit and Torque wrench.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to maintain: a) Landing gears support; b) Seat rails; c) Window structures; 6. Return aircraft to normal configuration; 7. Clean work area, tools and components; 8. Store tools, equipment and safety gear appropriately; 9. Sign job instruction cards and maintenance work package; 10. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform detailed inspection of aircraft fuselage structure; 1.2 Use aircraft maintenance tool kit; 1.3 Use non-destructive testing kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft fuselage structure; 2.2. Assembling and disassembling components of aircraft fuselage structure; 2.3. Determining the degree of structural integrity of aircraft fuselage structure as per aircraft SRM. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing; 3,4 Composite materials inspection; 3.5 Structural inspection. **4.0. Essential skills**

release to service.	4.1 Communication skills; 4.2 Time management skills; 4.3 Commitment; 4.4 Computer skills; 4.5 Critical thinking skills; 4.6 Problem solving skills; 4.7 Ability to work under pressure; 4.8 Interpersonal skills.
Description on the end products / service	Scheduled maintenance of aircraft's fuselage structure is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	603
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S FUSELAGE STRUCTURE	**TASK NO.**	6034
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's fuselage structure as per approved AMM, AMP and Aircraft SRM.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, non-destructive testing kit, mirror and Torque wrench		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft fuselage structure; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Use Job Instruction Card to perform detailed visual inspection of: a) External nose fuselage section; b) External mid fuselage section; c) External aft fuselage section; d) Aft and forward bulkhead; 7. Use SRM to carry out damage evaluation on: a) External nose fuselage section; b) External mid fuselage section; c) External aft fuselage section; d) Aft and forward bulkheads;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform detailed inspection of aircraft fuselage structure; 1.2. Use aircraft maintenance tool kit; 1.3. Use non-destructive testing kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft fuselage structure; 2.2. Assembling and disassembling components of aircraft fuselage structure; 2.3. Determining the degree of structural integrity of aircraft fuselage structure as per aircraft SRM. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing; 3.4 Composite materials inspection;

8. Report structural damage on: a) External nose fuselage section; b) External mid fuselage section; c) External aft fuselage section; d) Aft and forward bulkheads; 9. Return aircraft to normal configuration; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Sign job instruction cards and maintenance work package.	3.5 Structural inspection. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Unscheduled maintenance of aircraft's fuselage structure is performed as per AMM, SRM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	603
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'SWINDOWS STRUCTURE	**TASK NO.**	6035
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's windows structure as per approved AMM, AMP and SRM.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Mirror and Flashlight.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to check: a) Flight compartment windshield; b) Flight compartment side windows; c) Passenger windows; 6. Return aircraft to normal configuration; 7. Clean work area, tools and components; 8. Store tools, equipment and safety gear appropriately;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform detailed inspection of aircraft windows structure; 1.2 Use aircraft maintenance tool kit; 1.3 Use non-destructive testing kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft windows structure; 2.2. Assembling and disassembling components of aircraft windows structure; 2.3. Determining the degree of structural integrity of aircraft windows structure as per aircraft SRM. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing; 3.4 Composite materials inspection; 3.5 Structural inspection.

9. Sign job instruction cards and maintenance work package; 10. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	**4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Scheduled maintenance of aircraft's windows structure is performed as per AMM, SRM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	603
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S WINDOWS STRUCTURE	**TASK NO.**	6036
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's windows structure as per approved AMM, AMP and Aircraft Structural Repair.		
Range Statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Mirror and Flashlight.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft window structure; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Use Job Instruction Card to perform detailed visual inspection of: a) Flight compartment windshield; b) Flight compartment side windows; c) Passenger window; 7. Return aircraft to normal configuration; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately; 10. Submit aircraft technical logbook to certifying aircraft	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform detailed inspection of aircraft windows structure; 1.2 Use aircraft maintenance tool kit; 1.3 Use non-destructive testing kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft windows structure; 2.2. Assembling and disassembling components of aircraft windows structure; 2.3. Determining the degree of structural integrity of aircraft windows structure as per aircraft SRM. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing; 3.4 Composite materials inspection; 3.5 Structural inspection. **4.0. Essential skills**

maintenance engineer for signing of aircraft certificate of release to service.	4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Unscheduled maintenance of aircraft's windows structure is performed as per AMM, SRM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	603
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S WINGS STRUCTURE	**TASK NO.**	6037
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's wings structure as per approved AMM, AMP and SRM.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Mirror, Steps and Flashlight.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to maintain: a External structure of wing; b) Internal structure of wing; c) Flap structure; d) Aileron structure; e) Wings tips; 6. Return aircraft to normal configuration; 7. Clean work area, tools and components; 8. Store tools, equipment and safety gear appropriately; 9. Sign job instruction cards and maintenance work package; 10. Submit maintenance work	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform detailed inspection of aircraft wings structure; 1.2. Use aircraft maintenance tool kit; 1.3. Use non-destructive testing kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft wing's structure; 2.2. Assembling and disassembling components of aircraft wing's structure; 2.3. Determining the degree of structural integrity of aircraft wings structure as per aircraft SRM. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing; 3.4 Composite materials inspection; 3.5 Structural inspection. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment;

package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's wings structure is performed as per AMM, SRM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	603
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S WINGS STRUCTURE	**TASK NO.**	6038
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's wings structure as per approved AMM and SRM.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench, Flashlight, Mirror, Steps and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on the aircraft wings structure; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Clean area to be inspected; 7. Use job instruction card to perform detailed visual inspection of: a) External structure of wing; b) Internal structure of wing; c) Flap structure; d) Aileron structure; e) Wing tips; 8. Use SRM to perform damage evaluation on: a) External structure of wing; b) Internal structure of wing; c) Flap structure; d) Aileron structure;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform detailed inspection of aircraft wings structure; 1.2. Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft wings structure; 2.2. Assembling and disassembling components of aircraft wings structure; 2.3. Determining the degree of structural integrity of aircraft wings structure as per aircraft SRM. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing; 3.4 Composite materials inspection; 3.5 Structural inspection. **4.0. Essential skills** 4.1. Communication skills;

e) Wing tips; 9. Report structural damage on: a) External structure of wing; b) Internal structure of wing; c) Flap structure; d) Aileron structure; e) Wing tips; 10. Return aircraft to normal configuration; 11. Clean work area, tools and components; 12. Store tools, equipment and safety gear appropriately; 13. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's wings structure is performed as per AMM, SRM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	603
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S DOORS STRUCTURE	**TASK NO.**	6039
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's doors structure as per approved AMM, AMP and SRM.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Mirror, Steps and Flashlight.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Make sure the girt bar is not engaged in the floor-mounted escape slide brackets; 6. Use job instruction card to maintain: a) Door drain valves; b) Door retainer bracket; c) Door seals; d) Water inside inflatable door seals; e) Door seal control valve; f) Door electro-pneumatic shut-off valve; g) Door drain valve and reservoir tank; h) Heated check valve; i) Charge valve; j) Flap cover;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform detailed inspection of aircraft doors structure; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft doors structure; 2.2. Assembling and disassembling components of aircraft doors structure; 2.3. Determining the degree of structural integrity of aircraft doors structure as per aircraft SRM; 2.4. Ensure that the aircraft doors sealed well. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing; 3.4 Structural inspection. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills;

k) Interlock cam assembly; l) Door seal pressurization system desiccant filter; m) Door seal pressurization system; 7. Return aircraft to normal configuration; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately; 10. Sign job instruction cards and maintenance work package; 11. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products /service	Scheduled maintenance of aircraft's doors structure is performed as per AMM, SRM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	603
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S DOORS STRUCTURE	**TASK NO.**	60310
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's doors structure as per approved AMM and SRM.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench, Flashlight, Mirror, Steps and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defects on the aircraft doors; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Disarm the slide; 7. Use job instruction card to check: a) Door balance mechanism; b) Door lift mechanism; c) Handrail mechanism; d) Door side panel trim; e) Door electro-pneumatic shut-off valve; f) Door seal pressurization system; g) Door lift and latch mechanism; 8. Return aircraft to normal configuration; 9. Clean work area, tools and	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform detailed inspection of aircraft doors structure; 1.2. Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft doors structure; 2.2. Assembling and disassembling components of aircraft doors structure; 2.3. Determining the degree of structural integrity of aircraft doors structure as per aircraft SRM. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing; 3.4 Structural inspection. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills;

components; 10. Store tools, equipment and safety gear appropriately; 11. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's doors structure is performed as per AMM, SRM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	603
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S NACELLE STRUCTURE	**TASK NO.**	60311
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's nacelle structure as per approved AMM, AMP and SRM.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Mirror, Steps and Flashlight.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to check: a) Nacelle fire floor access panel; b) Nacelle structure, frame and struts; c) Lower cowl hoist; d) Nacelle frame structural identification; 6. Return aircraft to normal configuration; 7. Clean work area, tools and components; 8. Store tools, equipment and safety gear appropriately;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform detailed inspection of aircraft nacelle structure; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft nacelle structure; 2.2. Assembling and disassembling components of aircraft nacelle structure; 2.3. Determining the degree of structural integrity of aircraft nacelle structure as per aircraft SRM. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing; 3.4 Composite material inspection; 3.5 Structural inspection. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills;

9. Sign job instruction cards and maintenance work package; 10. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's nacelle structure is performed as per AMM, SRM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	603
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S NACELLE STRUCTURE	**TASK NO.**	60312
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's nacelle structure as per approved AMM and SRM.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench, Flashlight, Mirror, Steps and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on the aircraft nacelle; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation SRM; 6. Use repair manual to perform detailed inspection on: a) Lower cowl sling and lanyard; b) Engine lower cowl cover; c) Nacelle access panels; d) Upper nacelle seals; e) Nacelle structure, frame and struts; f) Upper nacelle seals; 7. Return aircraft to normal configuration; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform detailed inspection of aircraft nacelle structure; 1.2. Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft nacelle structure; 2.2. Assembling and disassembling components of aircraft nacelle structure; 2.3. Determining the degree of structural integrity of aircraft nacelle structure as per aircraft SRM. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing; 3.4 Composite material inspections; 3.5 Structural inspection. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills;

10. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's nacelle structure is performed as per AMM, SRM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	603
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S CABIN EQUIPMENT AND FURNISHINGS	**TASK NO.**	60313
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's cabin equipment and furnishings as per approved AMM and AMP.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Mirror, Steps and Flashlight.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to maintain: a) Flight compartment seats; b) Flight compartment panels; c) Window shade and reveal assembly; d) Emergency exit doorway lining; e) Passenger seat; f) Service unit; g) Luggage rack; h) Attendant's seats and panels; i) Engine room insulation; j) Cockpit emergency equipment; k) Insulating blanket; l) Smoke hood; m) Passenger compartment emergency equipment; n) Galley;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform inspection of aircraft equipment and furnishings; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft equipment and furnishings; 2.2. Assembling and disassembling components of aircraft equipment and furnishings. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills;

o) Air stair door ditching dam; p) ELT locator and antenna; q) Portable emergency locator transmitter; r) Ceiling panels; 6. Return aircraft to normal configuration; 7. Clean work area, tools and components; 8. Store tools, equipment and safety gear appropriately; 9. Sign job instruction cards and maintenance work package; 10. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's equipment and furnishings is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	603
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S CABIN EQUIPMENT AND FURNISHINGS	**TASK NO.**	60314
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's cabin equipment and furnishings as per approved AMM and AMP.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench, Flashlight, Mirror, Steps and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on the aircraft equipment and furnishings; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Use FIM to troubleshoot: a) Hot jug; b) Galley oven controls and indication; c) Passenger compartment emergency equipment Return aircraft to normal configuration; d) reveal assembly; e) Luggage rack; 7. Clean work area, tools and components; 8. Store tools, equipment and safety gear appropriately;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform inspection of aircraft equipment and furnishings; 1.2. Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft equipment and furnishings; 2.2. Assembling and disassembling components of aircraft equipment and furnishings. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing; 3.4 Troubleshooting techniques. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills;

9. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's equipment and furnishings is performed as per AMM, SRM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT APU	**DUTY NO.**	604
TASK TITLE	PERFORM SCHEDULED MAINTENANCE ON APU	**TASK NO.**	6041
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's APU as per approved AMM and AMP.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Mirror, Steps and Flashlight.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Supply power to the aircraft using ground power unit; 6. Use job instruction card to inspect: a) APU bleed valves; b) Ignition cables; c) Fuel manifold; d) Oil filter; e) Fuel filter; f) Air inlet ducts; 7. Use job instruction card to maintain: a) APU oil; b) Oil cooler; c) Fuel metering unit; d) Ignition exciter; 8. Return aircraft to normal configuration; 9. Clean work area, tools and components; 10. Store tools, equipment and safety	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft APU; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft APU; 2.2. Assembling and disassembling of aircraft APU components; 2.3. Determining serviceability of aircraft APU. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.

gear appropriately; 11. Sign job instruction cards and maintenance work package; 12. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	
Description of the end products / service	Scheduled maintenance of aircraft's APU is performed as per AMM, SRM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT APU	**DUTY NO.**	604
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE ON APU	**TASK NO.**	6042
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's APU as per approved AMM and FIM.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench, Flashlight, Mirror, Steps and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
1. Review aircraft technical logbook; 2. Identify defect on aircraft APU; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Supply power to the aircraft using ground power unit; 7. Use AMM to maintain: a) APU control unit; b) APU bleed air valve; c) Fuel leak; d) Fuel nozzles; 8. Use FIM to troubleshoot: a) Bleed air system; b) Fuel system c) Ignition system 9. Carry out operational test as per AMM 10. Return aircraft to normal configuration 11. Clean work area, tools and components 12. Store tools, equipment and safety gear appropriately 13. Submit aircraft technical logbook to certifying aircraft	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft APU; 1.2 Use aircraft maintenance tool kit; 1.3 Supply power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft APU; 2.2. Assembling and disassembling of aircraft APU components; 2.3. Determining serviceability of aircraft auxiliary power unit. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills;

maintenance engineer for signing of aircraft certificate of release to service	4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's APU is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF THE AIRCRAFT'S PISTON ENGINE STRUCTURE	**TASK NO.**	6051
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's piston engine structure as per approved AMM, AMP and Engine maintenance manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Mirror, Steps and Flashlight.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to inspect: a) engine mountings; b) engine crankcase; c) piston engine cylinder assembly; d) crankshaft assembly; e) Engine cowling and baffles; f) connecting rods; g) Accessory Drive; h) Vacuum Pump Driven Gear; i) Vacuum Pump; j) Propeller Governor Drive; 6. Use job instruction card to perform borescope inspection of the engine cylinders;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform inspection on aircraft piston engine; 1.2 Perform engine compression test; 1.3 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine; 2.2. Assembling and disassembling of aircraft piston engine components; 2.3. Determining serviceability of aircraft piston engine. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills;

7. Use job instruction card to perform engine compression test; 8. Return aircraft to normal configuration; 9. Clean work area, tools and components; 10. Store tools, equipment and safety gear appropriately; 11. Sign job instruction cards and maintenance work package; 12. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products	Scheduled maintenance of aircraft's piston engine structure is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF THE AIRCRAFT'S PISTON ENGINE STRUCTURE	**TASK NO.**	6052
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's piston engine structure as per approved AMM, FIM and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque wrench, Flashlight, Steps and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
1. Review aircraft technical logbook; 2. Identify defect on aircraft piston engine; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Use FIM to troubleshoot piston engine structure; 7. Disassemble piston engine structure as per AMM; 8. Use engine maintenance manual to inspect piston engine components; 9. Assemble aircraft piston engine as per engine maintenance manual; 10. Return aircraft to normal configuration; 11. Clean work area, tools and components; 12. Store tools, equipment and safety gear appropriately;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform inspection on aircraft piston engine; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine; 2.2. Assembling and disassembling of aircraft piston engine and components; 2.3. Determining serviceability of aircraft piston engine. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills;

13. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's piston engine structure is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF THE AIRCRAFT'S PISTON ENGINE FUEL AND CONTROL SYSTEM	**TASK NO.**	6053
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's piston engine fuel and control system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Steps and Flashlight.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to inspect: a) piston rings; b) engine control cables; c) push-pull tubes; d) spark plugs; e) injection nozzle; f) fuel manifold; g) engine fuel pumps; h) fuel filter; 6. Use job instruction card to examine: a) gaskets and seals; b) the fuel injectors; c) all fuel lines; d) tank; e) fuel selector switch;	**Detailed knowledge about:** **1.0. Methods:** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft piston engine fuel and control; 1.2 Use aircraft maintenance tool kit. **2.0. Principles:** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine fuel and control system; 2.2. Assembling and disassembling of aircraft piston engine fuel and control system components; 2.3. Determining serviceability of aircraft piston engine fuel and control system; 2.4. Special specification for fuel system maintenance. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills

7. Return aircraft to normal configuration; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately; 10. Sign job instruction cards and maintenance work package; 11. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's piston engine fuel and control system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF THE AIRCRAFT 'S PISTON ENGINE FUEL AND CONTROL SYSTEM	**TASK NO.**	6054
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's piston engine fuel and control system as per approved AMM AMP Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Steps and Flashlight.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft piston engine fuel and control system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Use FIM to troubleshoot piston engine fuel and control system; 7. Return aircraft to normal configuration; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately; 10. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	**Detailed knowledge about:** **1.0. Method** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft piston engine fuel and control; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine fuel and control system; 2.2. Assembling and disassembling of aircraft piston engine fuel and control system components; 2.3. Determining serviceability of aircraft piston engine fuel and control system; 2.4. Special specification for fuel system maintenance. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing.

	4.0. Essential skills 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's piston engine fuel and control system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF THE AIRCRAFT'S PISTON ENGINE IGNITION SYSTEM	**TASK NO.**	6055
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's piston engine ignition system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to inspect: a) spark plugs; b) ignition harness; c) ignition switch; 6. Examine magnetos as per job instruction card; 7. Perform Magneto-to-Engine timing check as job instruction card; 8. Return aircraft to normal configuration; 9. Clean work area, tools and components; 10. Store tools, equipment and safety gear appropriately; 11. Sign job instruction cards and maintenance work package; 12. Submit maintenance work package to certifying aircraft maintenance	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft piston engine ignition system; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine ignition system; 2.2. Assembling and disassembling of aircraft piston engine ignition system components; 2.3. Determining serviceability of aircraft piston engine ignition system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills;

engineer for signing of aircraft certificate of release to service.	4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products	Scheduled maintenance of aircraft's piston engine ignition system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF THE AIRCRAFT'S PISTON ENGINE IGNITION SYSTEM	**TASK NO.**	6056
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's piston ignition system as per approved AMM AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft piston engine ignition system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Troubleshoot aircraft piston engine magneto-to-engine timing as per FIM; 7. Examine magnetos as AMM; 8. Carry out operational test as per AMM; 9. Return aircraft to normal configuration; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft piston engine ignition system; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine ignition system; 2.2. Assembling and disassembling of aircraft piston engine ignition system components; 2.3. Determining serviceability of aircraft piston engine ignition system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills;

	4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's piston engine ignition system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF THE AIRCRAFT'S PISTON ENGINE INDUCTION SYSTEM	**TASK NO.**	6057
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's piston engine induction system as per approved AMM, AMP Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to inspect: a) Intake pipe; b) Intake filter; c) Warming device; d) Throttle valve; e) Fuel Drain Valve Adapter Assembly; 6. Return aircraft to normal configuration; 7. Clean work area, tools and components; 8. Store tools, equipment and safety gear appropriately; 9. Sign job instruction cards and maintenance work package;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft piston engine induction system; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine induction system; 2.2. Assembling and disassembling of aircraft piston engine induction system components; 2.3. Determining serviceability of aircraft piston engine induction system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills;

10. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's piston engine induction system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF THE AIRCRAFT'S PISTON ENGINE INDUCTION SYSTEM	**TASK NO.**	6058
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's piston engine induction system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft piston engine induction system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Troubleshoot aircraft piston engine induction system as per FIM; 7. Carry out operational test as per AMM; 8. Return aircraft to normal configuration; 9. Clean work area, tools and components; 10. Store tools, equipment and safety gear appropriately; 11. Submit aircraft technical logbook to certifying aircraft maintenance engineer for	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft piston engine ignition system; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine induction system; 2.2. Assembling and disassembling of aircraft piston engine induction system components; 2.3. Determining serviceability of aircraft piston engine induction system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills;

signing of aircraft certificate of release to service.	4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's piston engine induction system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF THE AIRCRAFT'S PISTON ENGINE OIL SYSTEM	**TASK NO.**	6059
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's piston engine oil system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags, Oil and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to examine: a) Oil pressure relief valve; b) Thermostatic oil cooler bypass valve; c) Oil lines; 6. Use job instruction card to check: a) Oil filter; b) Oil pump; c) Oil radiator; d) Magnetic plug; e) Oil levels in piston engine; 7. Use job instruction card to inspect: a) Oil sump drain plug; b) Oil sump; c) Oil pressure screen;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft piston engine oil system; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine oil system; 2.2. Assembling and disassembling of aircraft piston engine oil system components; 2.3. Determining serviceability of aircraft piston engine oil system; 2.4. Special specification for oil system maintenance. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills;

8. Change piston engine oil as per AMM; 9. Return aircraft to normal configuration; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Sign job instruction cards and maintenance work package; 13. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's piston engine oil system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF THE AIRCRAFT'S PISTON ENGINE OIL SYSTEM	**TASK NO.**	60510
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's piston engine induction system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags, Oil and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft piston engine oil system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Troubleshoot aircraft piston engine induction system as per FIM; 7. Carry out operational test as per AMM; 8. Return aircraft to normal configuration; 9. Clean work area, tools and components; 10. Store tools, equipment and safety gear appropriately; 11. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft piston engine oil system; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine oil system; 2.2. Assembling and disassembling of aircraft piston engine oil system components; 2.3. Determining serviceability of aircraft piston engine oil system; 2.4. Special specification for oil system maintenance. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills;

	4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's piston engine oil system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF THE AIRCRAFT'S PISTON ENGINE INDICATION SYSTEM	**TASK NO.**	60511
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's piston engine indication system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags, Oil and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to examine: a) Tachometer; b) Oil pressure gauge; c) Oil temperature gauge; d) Fuel flow gauge; 6. Use job instruction card to check: a) Cylinder head temperature probe; b) Exhaust gas temperature probe; 7. Change tachometer and temperature indicator as per AMM; 8. Return aircraft to normal configuration;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft piston engine indication system; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine indication system; 2.2. Assembling and disassembling of aircraft piston engine indication system components; 2.3. Determining serviceability of aircraft piston engine indication system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills;

9. Clean work area, tools and components; 10. Store tools, equipment and safety gear appropriately; 11. Sign job instruction cards and maintenance work package; 12. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's piston engine indication system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; **4.** Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF THE AIRCRAFT'S PISTON ENGINE INDICATION SYSTEM	**TASK NO.**	60512
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's piston engine indication system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags, Oil and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft piston engine indication system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Troubleshoot aircraft piston engine indication system as per FIM; 7. Carry out operational test as per AMM; 8. Return aircraft to normal configuration; 9. Clean work area, tools and components; 10. Store tools, equipment and safety gear appropriately; 11. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft piston engine indication system; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine indication system; 2.2. Assembling and disassembling of aircraft piston engine indication system components; 2.3. Determining serviceability of aircraft piston engine indication system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills;

	4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's piston engine indication system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; **4.** Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF THE AIRCRAFT'S PISTON ENGINE STARTING SYSTEM	**TASK NO.**	60513
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's piston engine starting system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags, Oil and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to examine: a) Starter; 6. Change piston engine starting components as per AMM; 7. Return aircraft to normal configuration; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately; 10. Sign job instruction cards and maintenance work package; 11. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft piston engine starting system; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine starting system; 2.2. Assembling and disassembling of aircraft piston engine starting system components; 2.3. Determining serviceability of aircraft piston engine starting system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills;

release to service.	4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's piston engine starting system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; **4.** Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF THE AIRCRAFT'S PISTON ENGINE STARTING SYSTEM	**TASK NO.**	60514
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's piston engine starting system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags, Oil and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft piston engine starting system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Troubleshoot aircraft piston engine starting system as per FIM; 7. Carry out operational test as per AMM; 8. Return aircraft to normal configuration; 9. Clean work area, tools and components; 10. Store tools, equipment and safety gear appropriately; 11. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft piston engine starting system; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine starting system; 2.2. Assembling and disassembling of aircraft piston engine starting system components; 2.3. Determining serviceability of aircraft piston engine starting system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure;

	4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's piston engine starting system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 5. TCAA regulations; 6. Safe handling of component and tools; 7. Extent of responsibility; 8. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF THE AIRCRAFT'S PISTON ENGINE EXHAUST SYSTEM	**TASK NO.**	60515
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's piston engine exhaust system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags, Oil and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to examine: a) Exhaust pipe; b) Muffler; 6. Change piston engine exhaust components as per AMM; 7. Return aircraft to normal configuration; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately; 10. Sign job instruction cards and maintenance work package; 11. Submit maintenance work package to certifying aircraft maintenance engineer for	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft piston engine exhaust system; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine exhaust system; 2.2. Assembling and disassembling of aircraft piston engine exhaust system components; 2.3. Determining serviceability of aircraft piston engine exhaust system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills;

signing of aircraft certificate of release to service.	4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's piston engine exhaust system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2 Safe handling of component and tools; 3 Extent of responsibility; **4** Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PISTON ENGINE	**DUTY NO.**	605
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF THE AIRCRAFT'S PISTON ENGINE EXHAUST SYSTEM	**TASK NO.**	60516
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's piston engine exhaust system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags, Oil and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft piston engine exhaust system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Troubleshoot aircraft piston engine exhaust system as per FIM; 7. Carry out operational test as per AMM; 8. Return aircraft to normal configuration; 9. Clean work area, tools and components; 10. Store tools, equipment and safety gear appropriately; 11. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational tests of aircraft piston engine exhaust system; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft piston engine exhaust system; 2.2. Assembling and disassembling of aircraft piston engine exhaust system components; 2.3. Determining serviceability of aircraft piston engine exhaust system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills;

	4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's piston engine exhaust system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; **4.** Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE STRUCTURE	**TASK NO.**	6061
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's gas turbine structure as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit and Borescope machine.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to inspect: a) Pylon areas; b) Engine identification placard; c) Engine air intake; d) Cones; e) Fan blades; f) Thrust reversers; g) Engine exhaust shroud; h) Visible turbine blades; i) Engine cowlings; j) Engine casing; k) Engine heat insulation blankets; 6. Use job instruction card to perform borescope inspection of:	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform borescope inspection of aircraft gas turbine engine structure; 1.2 Use aircraft maintenance tool kit; 1.3 Use bore scope inspection kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft gas turbine engine structure; 2.2. Assembling and disassembling components of aircraft gas turbine engine structure; 2.3. Determining the degree of structural integrity of aircraft gas turbine engine structure as per aircraft engine maintenance manual. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing; 3.4 Borescope inspection. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment;

a) Engine compressor; b) Engine combustion chamber; c) Engine turbine; d) Engine gearbox (propeller engines); 7. Return aircraft to normal configuration; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately; 10. Sign job instruction cards and maintenance work package; 11. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's gas turbine engine structure is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE STRUCTURE	**TASK NO.**	6062
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's gas turbine structure as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit and Borescope machine.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Review engine technical log book; 2. Identify defect on aircraft gas turbine engine structure; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. If required use FIM to troubleshoot: a) Trouble Shooting Data of the FADEC; b) Display of the CFDS FADEC Messages; c) General data to do a check powerplant resistance; 7. Use engine maintenance manual to perform borescope inspection of: a) Engine Compressor; b) Engine Combustion chamber; c) Engine turbine;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform borescope inspection of aircraft gas turbine engine structure; 1.2 Use aircraft maintenance tool kit; 1.3 Use borescope inspection kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft gas turbine engine structure; 2.2. Assembling and disassembling components of aircraft gas turbine engine structure; 2.3. Determining the degree of structural integrity of aircraft gas turbine engine structure as per aircraft engine maintenance manual. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing; 3.4 Borescope inspection. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment;

d) Engine Gearbox (propeller engines); 8. Return aircraft to normal configuration; 9. Clean work area, tools and components; 10. Store tools, equipment and safety gear appropriately; 11. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's gas turbine engine structure is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE FUEL SYSTEM	**TASK NO.**	6063
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's gas turbine engine fuel system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit and Borescope machine.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to inspect: d) Fuel pump and filter assembly; e) Fuel nozzles and manifold; f) Fuel return valve; g) Fuel oil heat exchanger (fuel heater); h) Temperature Sensor; 6. Use job instruction card to maintain: a) Fuel Filter Element; b) Fuel Nozzle; c) Fuel metering unit; d) Fuel flow meter; e) Fuel filter bypass indicator; f) Fuel pressure switch;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 2.1. Perform operational test of aircraft gas turbine engine fuel system; 2.2. Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft gas turbine engine fuel system; 2.2. Assembling and disassembling components of aircraft gas turbine engine fuel system; 2.3. Determining serviceability of aircraft gas turbine engine fuel system. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing. **4.0. Essential skills** 4.1 Communication skills; 4.2 Time management skills; 4.3 Commitment; 4.4 Computer skills; 4.5 Critical thinking skills; 4.6 Problem solving skills;

g) Fuel temperature sensor; h) Fuel flow divider; 7. Return aircraft to normal configuration; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately; 10. Sign job instruction cards and maintenance work package; 11. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.7 Ability to work under pressure; 4.8 Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's gas turbine engine fuel system is performed as per AMM, aircraft maintenance program and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE FUEL SYSTEM	**TASK NO.**	6064
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's gas turbine engine fuel system as per approved AMM, FIM and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit and Borescope machine.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft gas turbine engine fuel system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Use FIM to troubleshoot: a) Engine fuel control system; 7. Use job instruction card to maintain: a) Fuel metering unit; b) Fuel filter; c) Fuel flow divider; d) Fuel flow meter; e) Fuel Nozzle; f) Fuel oil heat exchanger; 8. Carry out engine fuel system leak check as per AMM; 9. Carry out operational test as per AMM; 10. Return aircraft to normal configuration;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational test of aircraft gas turbine engine fuel system; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft gas turbine engine fuel system; 2.2. Assembling and disassembling components of aircraft gas turbine engine fuel system; 2.3. Determining serviceability of aircraft gas turbine engine fuel system. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing. **4.0. Essential skills** 4.1 Communication skills; 4.2 Time management skills; 4.3 Commitment; 4.4 Computer skills; 4.5 Critical thinking skills; 4.6 Problem solving skills;

11. Clean work area, tools and components; 12. Store tools, equipment and safety gear appropriately; 13. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.7 Ability to work under pressure; 4.8 Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's gas turbine engine fuel system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE IGNITION SYSTEM AND ENGINE STARTING SYSTEM	**TASK NO.**	6065
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's gas turbine engine ignition system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Torque Wrench and Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Supply power to the aircraft using ground power unit; 6. Supply pressurized air to the aircraft using ground air source unit; 7. Use Job Instruction Card to inspect: a) Ignition cables; b) Ignition exciter; c) Ignition plugs; d) Engine Starter; e) Start valve; 8. If require use Job Instruction Card to maintain ignition exciter etc.;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational test of aircraft gas turbine engine ignition system; 1.2 Use aircraft maintenance tool kit; 1.3 Supplying power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft gas turbine engine ignition system; 2.2. Assembling and disassembling components of aircraft gas turbine engine ignition system; 2.3. Determining serviceability of aircraft gas turbine engine ignition system. **3.0. Theories:** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic Engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills;

9. Return aircraft to normal configuration; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Sign job instruction cards and maintenance work package; 13. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's gas turbine engine ignition system is performed as per AMM, aircraft maintenance program and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE IGNITION SYSTEM AND ENGINE STARTING SYSTEM	**TASK NO.**	6066
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's gas turbine engine ignition system as per approved AMM, AMP and engine maintenance manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft gas turbine engine ignition system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Supply power to the aircraft using ground power unit; 7. Supply pressurized air to the aircraft using ground air source unit; 8. Use FIM to troubleshoot aircraft gas turbine engine ignition system and engine starting system; 9. Return aircraft to normal configuration; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Submit aircraft technical logbook	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational test of the aircraft gas turbine engine ignition system; 1.2 Use aircraft maintenance tool kit; 1.3 Supply power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft gas turbine engine ignition system; 2.2. Determining serviceability of aircraft gas turbine engine ignition system; 2.3. Assembling and disassembling components of aircraft gas turbine engine ignition system. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment;

to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's gas turbine engine ignition system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE AIR SYSTEM	**TASK NO.**	6067
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's gas turbine engine air system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer and TCAA regulations. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit and Torque wrench.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Supply power to the aircraft using ground power unit; 6. Use Job Instruction Card to maintain: a) Engine air passages; b) Pressure transducer; c) Compressor Control; - Variable Stator Vane Actuation System (VSV); - Variable Bleed Valve System (VBV); d) Turbine Active Clearance Control System; - High Pressure Turbine Active Clearance Control (HPTACC); - Low Pressure Turbine Active Clearance Control (LPTACC);	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational test of aircraft gas turbine engine air system; 1.2 Use aircraft maintenance tool kit; 1.3 Supplying power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft gas turbine engine air system; 2.2. Assembling and disassembling components of aircraft gas turbine engine air system; 2.3. Determining serviceability of aircraft gas turbine engine air system. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic Engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills;

- Transient Bleed Valve (TBV); 7. Return aircraft to normal configuration; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately; 10. Sign job instruction cards and maintenance work package; 11. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's gas turbine engine air system is performed as per AMM, aircraft maintenance program and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE AIR SYSTEM	**TASK NO.**	6068
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's gas turbine engine air system as per approved AMM, AMP and Tanzania and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit and Torque wrench.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft gas turbine engine air system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Supply power to the aircraft using ground power unit; 7. Use FIM to troubleshoot aircraft gas turbine engine air system; 8. Carry out operational test as per AMM; 9. Return aircraft to normal configuration; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational test of aircraft gas turbine engine air system; 1.2 Use aircraft maintenance tool kit; 1.3 Supplying power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft gas turbine engine air system; 2.2. Assembling and disassembling components of aircraft gas turbine engine air system; 2.3. Determining serviceability of aircraft gas turbine engine air system. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic Engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills;

	4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's gas turbine engine air system is performed as per AMM engine maintenance manual and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE CONTROL SYSTEM	**TASK NO.**	6069
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's gas turbine engine control system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer and TCAA regulations. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit and Torque wrench.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be to able do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Supply power to the aircraft using ground power unit; 6. Use Job Instruction Card to maintain: a) Full authority digital engine control system (FADEC); b) Engine power lever assembly; c) Fuel shut off handle; d) Engine control cables; 7. Return aircraft to normal configuration; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately; 10. Sign job instruction cards and maintenance work package; 11. Submit maintenance work package to certifying aircraft maintenance engineer	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational test of aircraft gas turbine engine control system; 1.2 Use aircraft maintenance tool kit; 1.3 Supplying power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft gas turbine engine control system; 2.2. Assembling and disassembling components of aircraft gas turbine engine control system; 2.3. Determining serviceability of aircraft gas turbine engine control system. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic Engineering drawing. **4.0. Essential skills**

for signing of aircraft certificate of release to service.	4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's gas turbine engine control system is performed as per AMM, and Engine Maintenance Manual and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE CONTROL SYSTEM	**TASK NO.**	60610
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's gas turbine engine control system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer and TCAA regulations. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit and Torque wrench.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft gas turbine engine indicating system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Supply power to the aircraft using ground power unit; 7. Use FIM to troubleshoot: a) Full authority digital engine control system (FADEC); 8. Carry out engine power trimming as per AMM; 9. Carry out operational test as per AMM; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational test of aircraft gas turbine engine control system; 1.2 Use aircraft maintenance tool kit; 1.3 Supplying power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft gas turbine engine control system; 2.2. Assembling and disassembling components of aircraft gas turbine engine control system; 2.3. Determining serviceability of aircraft gas turbine engine control system. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic Engineering drawing.

	4.0. Essential skills 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's gas turbine engine control system is performed as per AMM, and Engine Maintenance Manual and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE INDICATING SYSTEM	**TASK NO.**	60611
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's gas turbine engine indicating system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer and TCAA regulations. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit and Torque wrench.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Supply power to the aircraft using ground power unit; 6. Use Job Instruction Card to inspect: a) Exhaust gas temperature probe; b) Torque sensor; c) LP rotor speed sensor; d) HP rotor speed sensor; e) Vibration sensor; 7. Clean work area, tools and components; 8. Store tools, equipment and safety gear appropriately; 9. Sign job instruction cards and	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational test of aircraft gas turbine engine indicating system; 1.2 Use aircraft maintenance tool kit; 1.3 Supplying power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft gas turbine engine indicating system; 2.2. Assembling and disassembling components of aircraft gas turbine engine indicating system; 2.3. Determining serviceability of aircraft gas turbine engine indicating system. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic Engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment;

maintenance work package; 10. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's gas turbine engine indicating system is performed as per AMM, and Engine Maintenance Manual and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE INDICATING SYSTEM	**TASK NO.**	60612
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's gas turbine engine indicating system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer and TCAA regulations. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit and Torque wrench.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft gas turbine engine indicating system; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Supply power to the aircraft using ground power unit; 7. Troubleshoot aircraft gas turbine engine indicating system as per FIM; 8. Carry out operational test as per AMM; 9. Clean work area, tools and components; 10. Store tools, equipment and safety gear appropriately; 11. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational test of aircraft gas turbine engine indicating system; 1.2 Use aircraft maintenance tool kit; 1.3 Supplying power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft gas turbine engine indicating; system 2.2. Assembling and disassembling components of aircraft gas turbine engine indicating system; 2.3. Determining serviceability of aircraft gas turbine engine indicating system. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic Engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment;

certificate of release to service.	4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's gas turbine engine indicating system is performed as per AMM, and TCAA regulations and Engine Maintenance Manual.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE OIL SYSTEM	**TASK NO.**	60613
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's gas turbine engine oil system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer and TCAA regulations. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags and Oil.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Supply power to the aircraft using ground power unit; 6. Use Job Instruction Card to inspect: a) Engine oil tank; b) Oil pressure pump; c) Oil pressure sensor; d) Oil temperature sensor; e) Oil cooler; f) Oil cooler bypass valve; g) Oil filter impending bypass indicator; h) Oil system chip detector; 7. Clean work area, tools and components; 8. Store tools, equipment and safety gear appropriately;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational test of aircraft gas turbine engine oil system; 1.2 Use aircraft maintenance tool kit; 1.3 Supplying power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft gas turbine engine oil system; 2.2. Assembling and disassembling components of aircraft gas turbine engine oil system; 2.3. Determining serviceability of aircraft gas turbine engine oil system; 2.4. Special specification for oil system maintenance. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic Engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment;

9. Sign job instruction cards and maintenance work package; 10. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's gas turbine engine oil system is performed as per AMM and TCAA regulations and Engine Maintenance Manual.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE OIL SYSTEM	**TASK NO.**	60614
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft gas turbine engine oil system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer and TCAA regulations. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags and Oil.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Supply power to the aircraft using ground power unit; 6. Check engine oil leak as per AMM; 7. Flush oil system as per AMM; 8. Carry out operational test as per AMM; 9. Troubleshoot aircraft gas turbine engine oil system as per FIM; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operational test of aircraft gas turbine engine oil system; 1.2 Use aircraft maintenance tool kit; 1.3 Supplying power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft gas turbine engine oil system; 2.2. Assembling and disassembling components of aircraft gas turbine engine oil system; 2.3. Determining serviceability of aircraft gas turbine engine oil system; 2.4. Special specification for oil system maintenance. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic Engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment;

	4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's gas turbine engine oil system is performed as per AMM, and Engine Maintenance Manual. and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM SCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE EXHAUST SYSTEM	**TASK NO.**	60615
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's gas turbine engine exhaust system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer and TCAA regulations. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit and Torque wrench.		

EVIDENCE REQUIREMENTS	
PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Supply power to the aircraft using ground power unit; 6. Use Job Instruction Card to inspect: a) Turbine exhaust system; - Primary sleeve assembly; - Turbine exhaust plug; b) Thrust reverser system; - The thrust reverser assembly; - The thrust reverser control system; - The thrust reverser indication system; 7. Clean work area, tools and components; 8. Store tools, equipment and safety gear appropriately;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational test of aircraft gas turbine engine exhaust system; 1.2. Use aircraft maintenance tool kit; 1.3 Supplying power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft gas turbine engine exhaust system; 2.2. Assembling and disassembling components of aircraft gas turbine engine exhaust system; 2.3. Determining serviceability of aircraft gas turbine engine exhaust system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic Engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills;

9. Sign job instruction cards and maintenance work package; 10. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's gas turbine engine exhaust system is performed as per AMM and TCAA regulations and Engine Maintenance Manual.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT GAS TURBINE ENGINE	**DUTY NO.**	606
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE OF AIRCRAFT'S GAS TURBINE ENGINE EXHAUST SYSTEM	**TASK NO.**	60616
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft gas turbine engine exhaust system as per approved AMM, AMP and Engine Maintenance Manual.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer and TCAA regulations. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit and Torque wrench.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Supply power to the aircraft using ground power unit; 6. Troubleshoot aircraft gas turbine engine exhaust system as per FIM; 7. Carry out operational test as per AMM; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately; 10. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Perform operational test of aircraft gas turbine engine exhaust system; 1.2. Use aircraft maintenance tool kit; 1.3 Supplying power to the aircraft using ground power unit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft gas turbine engine exhaust system; 2.2. Assembling and disassembling components of aircraft gas turbine engine exhaust system; 2.3. Determining serviceability of aircraft gas turbine engine exhaust system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic Engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills;

	4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's gas turbine engine exhaust system is performed as per AMM, and Engine Maintenance Manual. and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PROPELLER	**DUTY NO.**	607
TASK TITLE	PERFORM SCHEDULED MAINTENANCE ON AIRCRAFT'S PROPELLER ASSEMBLY	**TASK NO.**	6071
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's propeller assembly as per approved AMM and AMP.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags, Oil and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to inspect: a) Propeller blade assembly; b) Hub assembly; c) Spinner assembly; 6. Service propeller with lubricant as per job instruction card; 7. Return aircraft to normal configuration; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately; 10. Sign job instruction cards and maintenance work package; 11. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform inspection of aircraft propeller assembly; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft propeller assembly; 2.2. Assembling and disassembling of aircraft propeller assembly components; 2.3. Determining serviceability of aircraft propeller assembly. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills;

	4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's propeller assembly is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PROPELLER	**DUTY NO.**	607
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE ON AIRCRAFT'S PROPELLER ASSEMBLY	**TASK NO.**	6072
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's propeller assembly as per approved AMM and AMP.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags, Oil and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft propeller; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation 6. Use AMM to perform detailed inspection of: a) External structure of aircraft propeller blade and spinner; b) Accessories of an aircraft propeller blade assembly; c) Propeller hub assembly; d) Spinner assembly; 7. Use AMM to perform damage evaluation on: a) External structure of aircraft propeller blade and spinner; b) Accessories of the aircraft propeller blade assembly; c) Propeller hub assembly; d) Spinner assembly; 8. Report structural damage on:	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform inspection of aircraft propeller assembly; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Construction of aircraft propeller assembly; 2.2. Assembling and disassembling of aircraft propeller assembly components; 2.3. Determining serviceability of aircraft propeller assembly. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.

a) External structure of aircraft propeller blade and spinner; b) Accessories of an aircraft propeller blade assembly; c) Propeller hub assembly; d) Propeller spinner assembly; 9. Perform tip tracking as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and components; 12. Store tools, equipment and safety gear appropriately; 13. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	
Description of the end products / service	Unscheduled maintenance of aircraft's propeller assembly is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations 2. Safe handling of component and tools 3. Extent of responsibility 4. Occupational safety and health

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PROPELLER	**DUTY NO.**	607
TASK TITLE	PERFORM SCHEDULED MAINTENANCE ON AIRCRAFT'S PROPELLER CONTROLLING SYSTEM	**TASK NO.**	6073
Performance criteria	The person performing this task must be able to carry out scheduled maintenance of aircraft's propeller controlling system as per approved AMM and AMP.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags, Oil and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to inspect: a) Pitch Control Unit (PCU); b) Propeller Electronic Control Unit (PEC); c) Magnetic Pick-Up Unit (MPU); d) Over-speed Governor (OSG) and pump; e) Propeller feathering pump; f) Inspect beta tube assembly service propeller with lubricant as per job instruction card; 6. Return aircraft to normal configuration; 7. Clean work area, tools and components; 8. Store tools, equipment and safety	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operation test of aircraft propeller controlling system; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft propeller controlling system; 2.2. Assembling and disassembling of aircraft propeller controlling system components; 2.3. Determining serviceability of aircraft propeller controlling system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure;

gear appropriately; 9. Sign job instruction cards and maintenance work package; 10. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	4.8. Interpersonal skills.
Description of the end products / service	Scheduled maintenance of aircraft's propeller controlling system is performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	MAINTAIN AIRCRAFT PROPELLER	**DUTY NO.**	607
TASK TITLE	PERFORM UNSCHEDULED MAINTENANCE ON AIRCRAFT'S PROPELLER CONTROLLING SYSTEM	**TASK NO.**	6074
Performance criteria	The person performing this task must be able to carry out unscheduled maintenance of aircraft's propeller controlling system as per approved AMM and AMP.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags, Oil and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review aircraft technical logbook; 2. Identify defect on aircraft propeller; 3. Select right tools, equipment and safety gears for the task; 4. Observe health and safety when performing the task; 5. Observe Tanzania Civil Aviation Authority Regulation; 6. Use FIM to troubleshoot: a) Propeller controlling system; 7. Rectify defect root cause; 8. Carry out operational test as per AMM; 9. Return aircraft to normal configuration; 10. Clean work area, tools and components; 11. Store tools, equipment and safety gear appropriately; 12. Submit aircraft technical logbook to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1 Perform operation test of aircraft propeller controlling system; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of aircraft propeller controlling system; 2.2. Assembling and disassembling of aircraft propeller controlling system components; 2.3. Determining serviceability of aircraft propeller controlling system. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Basic engineering drawing. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Troubleshooting skills; 4.7. Ability to work under pressure;

	4.8. Interpersonal skills.
Description of the end products / service	Unscheduled maintenance of aircraft's propeller controlling system is performed as per AMM, FIM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM AIRCRAFT GROUND HANDLING OPERATIONS	**DUTY NO.**	608
TASK TITLE	PERFORM ROUTINE AIRCRAFT GROUND HANDLING OPERATIONS	**TASK NO.**	6081
Performance criteria	The person performing this task must be able to carry out routine aircraft ground handling operations as per approved AMM and AMP.		
Range statement	The task will be performed in a hangar or ramp area under the supervision of a certifying Aircraft Maintenance Engineer. The following equipment, tools and materials will be needed in performing the task: P.P.E, Tool kit, Torque wrench, Cotton rags, Oil and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Review maintenance work package and job instruction cards; 2. Select right tools, equipment and safety gears for the task; 3. Observe health and safety when performing the task; 4. Observe Tanzania Civil Aviation Authority Regulation; 5. Use job instruction card to perform aircraft: a) Lifting; b) Levelling; c) Shoring; d) Weighing; e) Taxiing; f) Towing; g) Parking; h) Storage and Return to service; i) Mooring; j) Placards and markings; 6. Use job instruction card to perform: a) Preservation; b) De-preservation; 7. Return aircraft to normal	**Detailed knowledge about:** **1.0. Methods:** The person performing this task must be able to explain how to: 1.1 Perform aircraft ground handling operations; 1.2 Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Lifting, levelling, shoring and weighing an aircraft; 2.2. Taxiing and towing an aircraft; 2.3. Parking and storing an aircraft. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures. **4.0. Essential skills** 4.1. Communication skills; 4.2. Time management skills; 4.3. Commitment; 4.4. Computer skills; 4.5. Critical thinking skills; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.

configuration; 8. Clean work area, tools and components; 9. Store tools, equipment and safety gear appropriately; 10. Sign job instruction cards and maintenance work package; 11. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service.	
Description of the end products / service	Routine aircraft ground handling operations are performed as per AMM, AMP and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Extent of responsibility; 4. Occupational safety and health.

TABLE 1: DACUM CHARTS FOR AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWER-PLANT) LEVEL 6

DUTIES	TASK	TASK ELEMENTS	ENABLERS
1.0. Verify aircraft's airworthiness compliance with Tanzania Civil Aviation Regulations.	1.1. Inspect relevant onboard aircraft documents.	1.1.1. Inspect: a. Certificate of airworthiness b. Certificate of registration c. Certificate of airworthiness d. Radio station license e. Certificate of release to service f. Mass and balance report g. Technical log book h. Minimum equipment list i. Certificate of insurance j. Noise certificate k. Operation specification certification l. Air operator certificate	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Tanzania Civil Aviation Authority Regulations **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	1.2. Release the aircraft to service on completion of maintenance activities.	1.2.1. Review maintenance work package and job instruction cards a. Record the maintenance activities carried out b. Handover paper work after completion of maintenance activities c. Submit maintenance work package to certifying aircraft maintenance engineer for signing of aircraft certificate of release to service	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Work package **Worker behaviours:** • Team spirit

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Trustworthy • Time management • Commitment
2.0. Maintain aircraft systems.	2.1. Perform scheduled maintenance of aircraft's air conditioning system.	2.1.1. Check: a. Air cycle machine b. Ram air fan c. Condenser d. Pack bypass valves e. Pack flow control valves f. Water collector g. Crew temperature sensor and indicators Inspect: a. Heat exchanger b. Duct temperature sensor c. Cabin temperature sensor d. Air condition ducts e. Outflow valves f. Safety valves	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Wrist strap • Torque wrench • Tool kit **Worker behaviours** • Team spirit • Trustworthy • Time management • Commitment
	2.2. Perform unscheduled maintenance on aircraft's air conditioning system.	2.2.1. Troubleshoot: a. Air distribution and recirculation b. Avionics equipment ventilation	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment**

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Personal Protective Equipment: safety shoes, dust coat and gloves • Wrist strap • Torque wrench • Tool kit **Worker behaviours** • Team spirit • Trustworthy • Time management • Commitment
	2.3. Perform scheduled maintenance of aircraft's fuel system.	2.3.1. Maintain: a. Fuel feed system b. Tank to tank fuel transfer system c. Fuel computer d. Fuel pumps e. Fuel drain valves f. Cross feed valve g. Fuel shut off valves h. Main fuel tanks i. Surge tanks j. Fuel pressure sensors Inspect: a. Fuel temperature sensor b. Fuel filters c. Fuel level sensors d. Fuel quantity indicator e. Fuel tank heat exchanger	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Explosimeter (Gas detector) • Fuel drain valve tool • Torque wrench • Tool kit **Worker behaviours:**

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Team spirit • Trustworthy • Time management • Commitment
	2.4. Perform unscheduled maintenance of aircraft's fuel system.	2.4.1. Troubleshoot: a. Fuel feed system b. Fuel transfer system	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Explosimeter (Gas detector) • Fuel drain valve tool • Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.5. Perform scheduled maintenance of aircraft's flight control system.	2.5.1. Maintain: a. Aileron and aileron trim control system b. Rudder and rudder trim control system	**Generic skills and knowledge:** • Using communication skills to work with others

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		c. Elevator and tab control system d. Horizontal stabilizer trim control system e. Flight spoiler control system f. Speed brake control system	and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tension meter • Rigging pins • Force gauge • Ground power unit • Lock collar • Target de-actuator • Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.6. Perform unscheduled maintenance of aircraft's flight control system.	2.6.1. Troubleshoot: a. Aircraft flight control system	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			Equipment: safety shoes, dust coat and gloves • Tension meter • Rigging pins • Force gauge • Ground power unit • Lock collar • Target de-actuator • Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.7. Perform scheduled maintenance of aircraft's hydraulic system.	2.7.1. Maintain: a. Hydraulic accumulator b. Ram air turbine (hydraulic) c. Hydraulic heat exchanger d. Alternate extension hydraulic system Check: a. Hydraulic reservoir b. Hydraulic level sensor c. Engine driven hydraulic pumps d. Electric hydraulic pumps e. Hydraulic pipes f. Hydraulic pressure sensors	**a) Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **b) Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Torque wrench • Tool kit

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		g. Hydraulic isolation valve h. Hydraulic shut off valve i. Hydraulic pressure relief valves j. Hydraulic temperature sensors k. PTU Inspect: a. Hydraulic accumulator b. Ram air turbine (hydraulic) c. Hydraulic heat exchanger d. Alternate extension hydraulic system	**c) Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.8. Perform unscheduled maintenance of aircraft's hydraulic system.	2.8.1. Troubleshoot hydraulic system Check: a. Hydraulic isolation valve b. Hydraulic shut off valve c. Hydraulic pressure relief valves d. Leak on hydraulic pipes	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.9. Perform scheduled	2.9.10. Maintain:	**Generic skills and**

DUTIES	TASK	TASK ELEMENTS	ENABLERS
	maintenance of the aircraft's oxygen system.	a. Crew oxygen cylinder b. PBE c. Aircraft flight control system d. Oxygen-Mask Stowage Box e. Passenger Mask Release Inspect: a. Oxygen delivery pipes b. Oxygen quantity indicator	**knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Manual deployment tool • Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.10. Perform unscheduled maintenance of the aircraft's oxygen system.	2.10.1. Troubleshoot oxygen system 2.10.2. Check oxygen delivery pipes	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Manual deployment tool

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.11. Perform scheduled maintenance of the aircraft's ice and rain protection system.	2.11.1. Inspect: a. Airframe deicer boots b. Engine intake deicer boots c. Windshields and pilot side window panels d. Pitot-static probe heaters e. Angle of attack (AOA) heaters f. Static probes heaters g. Propeller blade heaters h. Brush block, bracket unit and slip rings i. Ice detector probes j. Drain mast ice protection Maintain: a. De-icing timer unit control b. Ice detection system c. Windshield wiper system	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.12. Perform unscheduled maintenance of the	2.12.1. Troubleshoot: a. Ice detection system b. Windshield wiper system	**Generic skills and knowledge:**

DUTIES	TASK	TASK ELEMENTS	ENABLERS
	aircraft's ice and rain protection system.	c. De-icing timer unit control	• Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.13. Perform scheduled maintenance of the aircraft's pneumatic system.	2.13.1. Maintain: a. Engine bleed air system b. APU bleed air system c. Bleed air ducts d. Bleed air check valves e. Pneumatic system leak Inspect: a. Bleed air valves b. High pressure shut off valves c. Flow pressure sensor d. Flow temperature sensor e. Pneumatic valve	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Torque wrench • Tool kit

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			Worker behaviours: • Team spirit • Trustworthy • Time management • Commitment
	2.14. Perform unscheduled maintenance of the aircraft's pneumatic system.	2.14.1. Troubleshoot pneumatic system 2.14.2. Repair of bleed air ducts	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment:** • Personal Protective Equipment: safety shoes, dust coat and gloves • Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.15. Perform scheduled maintenance of the aircraft's landing gear system.	2.15.1. Inspect: a. Nose and main landing gear shock strut and drag strut b. Yoke and stabilizer brace of main landing gear c. Landing gear doors d. Inspect landing gear wheels	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		e. Carry out inspection of nose wheel steering system f. Wheel brake unit Maintain: a. Roller and up lock of main landing gear b. Nose and main landing gear retraction control system c. Nose and main landing gear extension control system d. Landing gear alternate extension system e. Landing gear brake system f. Landing gear antiskid system g. Landing gear proximity sensing system	**Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Axle jacks • Ground lock pins • Axle nut sockets • Ground power unit • Hydraulic power unit • Target de-actuator (copper) • Target actuator (steel) • Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.16. Perform unscheduled maintenance of the aircraft's landing gear system.	2.16.1. Troubleshoot: a. Nose and main landing gear brake systems b. Antiskid system c. Proximity sensor system d. Steering system e. Landing gear extension and retraction system	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes,

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			dust coat and gloves • Axle jacks • Ground lock pins • Axle nut sockets • Ground power unit • Hydraulic power unit • Target de-actuator (copper) • Target actuator (steel) • Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.17. Perform scheduled maintenance of the aircraft's water and waste system.	2.17.1. Inspect: a. Potable Water System b. Potable Water Tank c. Water Quantity Indication System d. Lavatory wash water system e. Ground service panel f. Water tank assembly g. Floor drain pipe h. Toilet unit i. Lavatory water filter j. Lavatory waste disposal unit k. Lavatory service panel l. Vent line and muffler m. Control cables	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Torque wrench • Tool kit

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		n. Waste water drain pipe	**Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.18. Perform unscheduled maintenance of the aircraft's water and waste system.	2.18.1. Troubleshoot lavatory wash water system: a. Water Quantity Transmitter b. Pressure relief valve c. Cable control unit d. Drain valve e. Air stop valve f. Pump filter g. Lavatory water filter h. Toilet unit i. Lavatory service panel j. Motor-driven pump	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.19. Perform scheduled maintenance of the aircraft's fire protection system.	2.19.1. Maintain: a. Engine fire detection system b. Engine fire extinguishing system c. Cargo fire detection system d. Cargo fire extinguishing system e. Lavatory smoke detection system	**Generic skills and knowledge** • Using communication skills to work with others and reporting to supervisors

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		f. Lavatory fire extinguishing system g. APU fire detection system h. APU fire extinguishing system 2.19.2. Check: a. Landing gear bays fire detection elements b. Fire extinguisher cartridges c. Lavatory smoke detectors d. Portable fire extinguisher bottles	**Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Wrist strap (grounding) • Tool kit **Worker behaviours** • Team spirit • Trustworthy • Time management • Commitment
	2.20. Perform unscheduled maintenance of the aircraft's fire protection system.	2.20.1. Troubleshoot: a. Engine fire detection system b. Engine fire extinguishing system c. Cargo fire detection system d. Cargo fire extinguishing system e. Lavatory Smoke Detection system f. Lavatory fire extinguishing system g. APU fire detection system h. APU fire extinguishing system	**Generic skills and knowledge** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Wrist strap (grounding) • Tool kit **Worker behaviours:** • Team spirit • Trustworthy

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Time management • Commitment
3.0. Maintain aircraft airframe structure.	3.1. Perform scheduled maintenance of aircraft's stabilizers.	3.1.1. Perform borescope inspection of: a. Internal structure of vertical stabilizers b. Internal structures of horizontal stabilizers c. Internal structures of elevator d. Internal structures of rudder	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Borescope machine • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	3.2. Perform unscheduled maintenance of aircraft's stabilizers.	3.2.1. Perform detailed visual inspection of: a. External structure of aircraft stabilizers b. Internal structure of aircraft stabilizers 3.2.2. Perform damage evaluation on: a. External structure of aircraft stabilizers b. Internal structure of aircraft	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes,

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		stabilizers 3.2.3. Report structural damage on: a. External structure of aircraft stabilizers b. Internal structure of aircraft stabilizers	dust coat and gloves • Borescope machine • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	3.3. Perform scheduled maintenance of the aircraft's fuselage.	3.3.1. Maintain: a. Landing gears support b. Seat rails c. Windows structures	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	3.4. Perform unscheduled maintenance of the aircraft's fuselage.	3.4.1. Perform detailed visual inspection: a. External nose fuselage section b. External mid fuselage section	**a) Generic skills and knowledge:**

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		c. External aft fuselage section d. Bulkhead e. Forward bulkhead 3.4.2. Perform damage evaluation on: a. External nose fuselage section b. External mid fuselage section c. External aft fuselage section d. Bulkhead e. Forward bulkhead 3.4.3. Report structural damage on: a. External nose fuselage section b. External mid fuselage section c. External aft fuselage section d. Bulkhead e. Forward bulkhead	• Using communication skills to work with others and reporting to supervisors **b) Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Torque wrench • Tool kit **c) Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	3.5. Perform scheduled maintenance of aircraft's windows.	3.5.1. Check: a. Flight compartment windshield b. Flight compartment side windows c. Passenger windows	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Flashlight • Tool kit

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			Worker behaviours: • Team spirit • Trustworthy • Time management • Commitment
	3.6. Perform unscheduled maintenance of aircraft's windows.	3.6.1. Perform detailed visual inspection: a. Flight compartment windshield b. Flight compartment side windows c. Passenger windows	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Flashlight • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	3.7. Perform scheduled maintenance of the aircraft's wings.	3.7.1. Maintain: a. External structure of wing b. Internal structure of wing c. Flap structure d. Aileron structure e. Wing tips	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			Tools and Equipment • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	3.8. Perform unscheduled maintenance of the aircraft's wings.	3.8.1. Perform detailed visual inspection: a. External structure of wing b. Internal structure of wing c. Flap structure d. Aileron structure e. Wing tips 3.8.2. Perform damage evaluation on: a. External structure of wing b. Internal structure of wing c. Flap structure d. Aileron structure e. Wing tips 3.8.3. Report structural damage on: a. External structure of wing b. Internal structure of wing c. Flap structure d. Aileron structure e. Wing tips	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment

DUTIES	TASK	TASK ELEMENTS	ENABLERS
	3.9. Perform scheduled maintenance of the aircraft's doors.	3.9.1. Maintain: a. Door drain valves b. Door retainer bracket c. Door seals d. Water inside inflatable door seals e. Door seal control valve f. Door electro-pneumatic shut-off valve g. Door drain valve and reservoir tank h. Heated check valve i. Charge valve j. Flap cover k. Interlock cam assembly l. Door seal pressurization system desiccant filter m. Door seal pressurization system	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	3.10. Perform unscheduled maintenance of the aircraft's doors.	3.10.1. Check: a. Door balance mechanism b. Door lift mechanism c. Handrail mechanism d. Door side panel trim e. Door electro-pneumatic shut-off valve f. Door seal pressurization system g. Door lift and latch mechanism	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			Worker behaviours: • Team spirit • Trustworthy • Time management • Commitment
	3.11. Perform scheduled maintenance of the aircraft's nacelle.	3.11.1. Check: a. Nacelle fire floor access panel b. Nacelle structure, frame and struts c. Lower cowl hoist d. Nacelle frame structural identification	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	3.12. Perform unscheduled maintenance of the aircraft's nacelle.	3.12.1. Perform detailed visual inspection of: a. Lower cowl sling and lanyard b. Engine lower cowl cover c. Nacelle access panels d. Upper nacelle seals	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		e. Nacelle structure, frame and struts f. Upper nacelle seals	supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment

DUTIES	TASK	TASK ELEMENTS	ENABLERS
	3.13. Perform scheduled maintenance of the aircraft's equipment and furnishing.	3.13.1. Maintain: a. Flight compartment seats b. Flight compartment panels c. Window shade and reveal assembly d. Emergency exit doorway lining e. Passenger seat f. Service unit g. Luggage rack h. Attendant's seats and panels i. Engine room insulation j. Cockpit emergency equipment k. Insulating blanket l. Smoke hood m. Passenger compartment emergency equipment n. Galley o. Air stair door ditching dam p. ELT locator and antenna q. Portable emergency locator transmitter r. Ceiling panels	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	3.14. Perform unscheduled maintenance of the aircraft's equipment and furnishing.	3.14.1. Troubleshoot: a. Hot jug operation b. Galley oven controls and indication c. Passenger compartment emergency equipment	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
4. Maintain Aircraft Auxiliary Power Unit (APU).	4.1. Perform scheduled maintenance on APU.	4.1.1. Inspect: a. APU bleed valves b. Ignition cables c. Fuel manifold d. Oil filter e. Fuel filter f. Air inlet ducts 4.1.2. Maintain: a. APU oil b. Oil cooler c. Fuel metering unit (FMU) d. Ignition exciter	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	4.2. Perform unscheduled maintenance on the APU.	4.2.1. Troubleshoot: a. Bleed air system b. Fuel system c. Ignition system	**Generic skills and knowledge:** • Using communication skills to work with others

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		4.2.2. Maintain: a. APU control unit b. APU bleed air valve c. Fuel leak d. Fuel nozzles	and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
5. Maintain Aircraft's Piston Engine.	5.1. Perform scheduled maintenance of the aircraft's piston engine structure.	5.1.1. Inspect: a. engine mountings b. engine crankcase c. piston engine cylinder assembly d. crankshaft assembly e. Engine cowling and baffles f. connecting rods g. Accessory Drive h. Vacuum Pump Driven Gear i. Vacuum Pump j. Propeller Governor Drive 5.1.2. Perform a compression test 5.1.3. Perform cylinder borescope inspection	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Borescope machine • Tool kit **Worker behaviours:** • Team spirit

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Trustworthy • Time management • Commitment
	5.2. Perform unscheduled maintenance of the aircraft's piston engine structure.	5.2.1. Inspect: Engine components 5.2.2. Disassemble aircraft piston engine 5.2.3. Assemble aircraft piston engine	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Borescope machine • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	5.3. Perform scheduled maintenance of the aircraft's piston engine fuel and control system.	5.3.1. Inspect: a. Piston rings b. Engine control cables c. Push-pull tubes d. Spark plugs e. Injection nozzle f. Fuel manifold	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		g. Engine fuel pumps h. Fuel filter 5.3.2. Examine: a. Gaskets and seals b. Fuel injectors c. Fuel lines d. Fuel tank e. Fuel selector switch	**Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	5.4. Perform unscheduled maintenance of the aircraft's piston engine fuel and control system.	5.4.1. Troubleshoot fuel and control system	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Commitment
	5.5. Perform scheduled maintenance of the aircraft's piston engine ignition system.	5.5.1. Inspect: a. Spark plugs b. Ignition harness c. Ignition switch 5.5.2. Examine magnetos 5.5.3. Perform Magneto-to-Engine timing check	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	5.6. Perform unscheduled maintenance of the aircraft's piston engine ignition system.	5.6.1. Examine magnetos 5.6.2. Troubleshoot Magneto-to-Engine timing check	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes,

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	5.7. Perform scheduled maintenance of the aircraft's piston engine induction system.	5.7.1. Inspect: a. Intake pipe b. Intake filter c. Heating device d. Throttle valve e. Fuel Drain Valve Adapter Assembly	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	5.8. Perform unscheduled maintenance of the aircraft's piston	5.8.1. Troubleshoot engine induction system	**Generic skills and knowledge:** • Using communication

DUTIES	TASK	TASK ELEMENTS	ENABLERS
	engine induction system.		skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	5.9. Perform scheduled maintenance of the aircraft's piston engine oil system.	5.9.1. Examine: a. Oil pressure relief valve b. Thermostatic oil cooler bypass valve c. Oil lines 5.9.2. Check: a. Oil filter b. Oil pump c. Oil radiator d. Magnetic plug e. Oil levels in piston engine 5.9.3. Change engine oil 5.9.4. Inspect:	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		a. Oil sump drain plug b. Oil sump c. Oil pressure screen	• Trustworthy • Time management • Commitment
	5.10. Perform unscheduled maintenance of the aircraft's piston engine oil system.	5.10.1. Troubleshoot engine oil system	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	5.11. Perform scheduled maintenance of the aircraft's piston engine indication system.	5.11.1. examine: a. Tachometer b. Oil pressure gauge c. Oil temperature gauge d. Fuel flow gauge 5.11.2. check: a. Cylinder head temperature probe Exhaust gas temperature probe	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment**

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		5.11.3 Replace piston engine indicating system unit	• Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	5.12. Perform unscheduled maintenance of the aircraft's piston engine indication system.	5.12.1. Troubleshoot engine indication system	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	5.13. Perform scheduled maintenance of the aircraft's piston	5.13.1. examine: a. Tachometer 5.13.2 Replace piston engine start unit	**Generic skills and knowledge:** • Using communication

DUTIES	TASK	TASK ELEMENTS	ENABLERS
	engine starting system.		skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	5.14. Perform unscheduled maintenance of the aircraft's piston engine starting system.	5.14.1. Troubleshoot engine starting system	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Time management • Commitment
	5.15. Perform scheduled maintenance of the aircraft's piston engine exhaust system.	5.15.1. examine: a. Exhaust pipe b. Muffler 5.15.2 Replace piston engine Exhaust system unit	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	5.16. Perform unscheduled maintenance of the aircraft's piston engine exhaust system.	5.16.1. Troubleshoot engine exhaust system	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
6. Maintain Aircraft's Gas Turbine Engine.	6.1. Perform scheduled maintenance of the aircraft's gas turbine engine structure.	6.1.1. Inspect: a. Pylon areas b. Engine identification placard c. Engine air intake d. Cones e. Fan blades f. Thrust reversers g. Engine exhaust shroud h. Visible turbine blades i. Engine cowlings j. Engine casing k. Engine heat insulation blankets 6.1.2. Perform borescope inspection of: a. Engine compressor b. Engine combustion chamber c. Engine turbine d. Engine gearbox (propeller engines)	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Borescope machine • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	6.2. Perform unscheduled maintenance of the aircraft's gas turbine engine structure.	6.2.1. Perform borescope inspection of: a. Compressor b. Combustion chamber c. Turbine	**Generic skills and knowledge:** • Using communication skills to work with others

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		d. Gearbox (propeller engines)	and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Borescope machine • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	6.3. Perform scheduled maintenance of the aircraft's gas turbine engine fuel system.	6.3.1. Inspect: a. Fuel pump and filter assembly b. Fuel nozzles and manifold c. Fuel return valve d. Fuel oil heat exchanger (fuel heater) e. Temperature Sensor 6.3.2. Maintain: a. Fuel Filter Element b. Fuel Nozzle c. FMU d. Fuel flow meter e. Fuel filter bypass indicator f. Fuel pressure switch g. Fuel temperature sensor	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		h. Fuel flow divider	• Trustworthy • Time management • Commitment
	6.4. Perform unscheduled maintenance of the aircraft's gas turbine engine fuel system.	6.4.1. Troubleshoot engine fuel control system 6.4.2. Maintain: a. FMU b. Fuel filter c. Fuel flow divider d. Fuel flow meter e. Fuel Nozzle f. Fuel oil heat exchanger 6.4.3. Check leak on fuel system	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	6.5. Perform scheduled maintenance of the aircraft's gas turbine engine ignition system and engine starting system.	6.5.1. Inspect: a. Ignition cables b. Ignition exciter c. Ignition plugs d. Engine Starter 6.5.2. Maintain ignition exciter	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment**

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	6.6. Perform unscheduled maintenance of the aircraft's gas turbine engine ignition system and engine starting system.	6.6.1. Troubleshoot ignition system and starting syetem	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	6.7. Perform scheduled maintenance of the	6.7.1. Maintain: a. Engine air passages	**Generic skills and knowledge:**

DUTIES	TASK	TASK ELEMENTS	ENABLERS
	aircraft's gas turbine engine air system.	b. Pressure transducers c. Compressor Control - Variable stator vane actuation system (VSV) - Variable Bleed Valve System (VBV) d. Turbine Active Clearance Control System - High Pressure Turbine Active Clearance Control (HPTACC) - Low Pressure Turbine Active Clearance Control (LPTACC) - Transient Bleed Valve (TBV)	• Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	6.8. Perform unscheduled maintenance of the aircraft's gas turbine engine air system.	6.8.1. Troubleshoot gas turbine engine air system	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Trustworthy • Time management • Commitment
	6.9. Perform scheduled maintenance of the aircraft's gas turbine engine control system.	6.9.1. Maintain: a. Full authority digital engine control system (FADEC) b. Engine power lever assembly c. Fuel shut off handle d. Engine control cables	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	6.10. Perform unscheduled maintenance of the aircraft's gas turbine engine control system.	6.10.1. Troubleshoot full authority digital engine control system (FADEC) 6.10.2. Perform engine power trimming	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes,

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	6.11. Perform scheduled maintenance of the aircraft's gas turbine engine indicating system.	6.11.1. Inspect: a. Exhaust gas temperature probe b. Torque sensor c. LP rotor speed sensor d. HP rotor speed sensor e. Vibration sensor	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	6.12. Perform unscheduled maintenance of the aircraft's gas turbine	6.12.1. Troubleshoot engine indicating system	**Generic skills and knowledge:** • Using communication

DUTIES	TASK	TASK ELEMENTS	ENABLERS
	engine indicating system.		skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	6.13. Perform scheduled maintenance of the aircraft's gas turbine engine oil system.	6.13.1. Inspect: a. Engine oil tank b. Oil pressure pump c. Oil pressure sensor d. Oil temperature sensor e. Oil cooler f. Oil cooler bypass valve g. Oil filter impending bypass indicator h. Oil system chip detector	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Time management • Commitment
	6.14. Perform unscheduled maintenance of the aircraft's gas turbine engine oil system.	6.14.1. Check: Oil system leak 6.14.2. Flush engine oil system 6.14.3. Troubleshoot engine oil system	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	6.15 Perform scheduled maintenance of aircraft's gas turbine engine exhaust system.	6.15.1 Turbine exhaust system a. Primary sleeve assembly b. Turbine exhaust plug 6.15.2 Thrust reverser system a. The thrust reverser assembly b. The thrust reverser control system c. The thrust reverser indication system	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	6.16 Perform unscheduled maintenance of aircraft's gas turbine engine exhaust system.	6.16.1 Troubleshoot aircraft gas turbine engine exhaust system as per FIM	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
7. Maintain Aircraft's Propeller.	7.1. Perform scheduled maintenance on aircraft's propeller	7.1.1. Inspect: a. Propeller blade assembly b. Hub assembly	**Generic skills and knowledge:** • Using communication

DUTIES	TASK	TASK ELEMENTS	ENABLERS
	assembly.	c. Spinner assembly 7.1.2. Service propeller with lubricant	skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Step • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	7.2. Perform unscheduled maintenance on aircraft's propeller assembly.	7.2.1. Perform detailed visual inspection of: a. External structure of aircraft propeller blade and spinner b. Accessories of an aircraft propeller blade assembly c. Propeller hub assembly d. Spinner assembly 7.2.2. Perform damage evaluation on: a. External structure of aircraft propeller blade and spinner b. Accessories of the aircraft propeller blade assembly c. Propeller hub assembly d. Spinner assembly	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Step • Torque wrench • Hoist

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		7.2.3. Report structural damage on: a. External structure of aircraft propeller blade and spinner b. Accessories of an aircraft propeller blade assembly c. Propeller hub assembly d. Propeller spinner assembly 7.2.4. Perform tip tracking of propeller blade	• Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	7.3. Perform scheduled maintenance on aircraft's propeller controlling system.	7.3.1. Inspect: a. Pitch Control Unit (PCU) b. Propeller Electronic Control Unit (PEC) c. Magnetic Pick-Up Unit (MPU) d. Over-speed Governor (OSG) and pump e. Propeller feathering pump f. Inspect beta tube assembly	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Step • Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment

DUTIES	TASK	TASK ELEMENTS	ENABLERS
	7.4. Perform unscheduled maintenance on aircraft's propeller controlling system.	7.4.1. Troubleshoot propeller control system	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Step • Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
8. Perform Ground Handling Operations.	8.1. Perform routine ground handling operations.	8.1.1. Perform aircraft ground operations: a. Lifting b. Leveling c. Shoring d. Weighing e. Taxiing f. Towing g. Parking h. Storage and Return to service i. Mooring j. Placards and markings	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		8.1.2. Perform engine: a. Preservation b. De-preservation	• Tow bar • Chocks • Jacks • Weigh scales • Blanks • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment