NATIONAL COUNCIL FOR TECHNICAL EDUCATION

NOVEMBER 2022

PROPOSED OCCUPATIONAL STANDARDS

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

LEVEL: NTA 5

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	Yunnan Vocational College of Transportation	Yang Jingyan	Senior Lecturer/Transportation
2		Pu Pingao	Senior Political Engineer /English
3		Li Guohui	Senior Economist/Economy Management
4		Ge Wenjun	Senior Lecturer/Transportation
5		Jiang Yanhong	Senior Lecturer/Transportation
6		Peng Zhao	Senior Lecturer/Transportation
7		Ouyang Hongji	Lecturer/English
8		Zhu Sha	Lecturer/Aerodynamics
9		Li Lei	Engineer/Aviation Maintenance
10		Zi Zhangyong	Teaching Assistant/Aviation Maintenance

Dr. A. B. Rutayuga
EXECUTIVE SECRETARY

Dar es Salaam
NOVEMBER 2021

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.

1.0. 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.

2.0. 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.

3.0. 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.

4.0 OCCUPATIONAL STANDARDS

4.1 OCCUPATIONAL STANDARDS FOR AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWER-PLANT) NTA 5

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT SYSTEMS	**DUTY NO.**	501
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S AIR CONDITIONING SYSTEM	**TASK NO.**	5011
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's air conditioning system 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: Tool Kit, Torque wrench and P.P.E.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe Tanzania Civil Aviation Regulation; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Remove defective component as per AMM; 9. Install serviceable component as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and removed unserviceable component; 12. Store tools, equipment and safety gear appropriately; 13. Sign job instruction card	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use aircraft maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft air conditioning system; 2.2. Assembling and disassembling air conditioning system components; 2.3. Determining serviceability of component. **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. Team spirit; 4.2. Communication skills; 4.3. Time management skills; 4.4. Commitment;

14. Return unserviceable component to quarantine stores.	4.5. Computer skills; 4.6. Critical thinking skills; 4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	Replacement of components on aircraft's air conditioning system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT SYSTEMS	**DUTY NO.**	501
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S FUEL SYSTEM	**TASK NO.**	5012
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's fuel system 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: Tool kit, Explosimeter (Gas detector), Fuel drain valve tool, Torque wrench, purging fan and P.P. E.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe Tanzania Civil Aviation Regulation; 3. Observe fuel tank safety; 4. Identify component to be replaced; 5. Identify AMM job card to be used; 6. Check tools calibration; 7. Observe health and safety when performing the task; 8. Obtain serviceable component to be installed from stores; 9. Ground the aircraft to an earth point; 10. Purge the work area using fans; 11. Open and tag appropriate circuit breakers on the fuel system; 12. Remove defective component as per AMM; 13. Install serviceable component as per AMM;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Tighten fasteners using torque wrench; 1.3. Use aircraft maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft fuel system; 2.2. Assembling and disassembling of aircraft fuel system components; 2.3. Determining serviceability of component. **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; 4.3. Commitment;

14. Return aircraft to normal configuration; 15. Clean work area, tools and components; 16. Store tools, equipment and safety gear appropriately; 17. Sign job instruction card; 18. Return unserviceable component to quarantine stores.	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	Replacement of components on aircraft's fuel system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. TCAA regulations; 2. Safe handling of component and tools; 3. Fuel tank safety; 4. Extent of responsibility; 5. Occupational safety and health.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT SYSTEMS	**DUTY NO.**	501
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S FLIGHT CONTROL SYSTEM	**TASK NO.**	5013
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's flight control system 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: Tool Kit, Torque wrench, Tension meter, rig pins, lock collar, safety tags and P.P.E.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Depressurize hydraulic system of the aircraft; 9. Lock flight controls and surfaces from moving; 10. Open and tag appropriate circuit breakers on flight control system; 11. Remove defective component as per AMM; 12. Install serviceable component as per AMM; 13. Return aircraft to normal configuration;	**Detailed knowledge about:** **1.0. Methods** This person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Measure cable tension; 1.4. Use aircraft maintenance tool kit; 1.5. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the flight controls; 2.2. Assembling and disassembling flight control components; 2.3. Determining serviceability of components. **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. Team spirit;

14. Clean work area, tools and removed unserviceable component; 15. Store tools, equipment and safety gear appropriately; 16. Sign job instruction card; 17. Return unserviceable component to quarantine stores.	4.2. Communication skills; 4.3. Time management; 4.4. Commitment; 4.5. Computer skills; 4.6. Critical thinking skills; 4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	Replacement of components on the aircraft's flight control system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT SYSTEMS	**DUTY NO.**	501
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S HYDRAULIC SYSTEM	**TASK NO.**	5014
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's hydraulic system as per approved AMM.		
Range Statement	The task will be performed in a hangar 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. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Depressurize hydraulic system of the aircraft; 9. Open and tag appropriate circuit breakers on hydraulic system; 10. Remove defective component as per AMM; 11. Install serviceable component as per AMM; 12. Return aircraft to normal configuration; 13. Clean work area, tools and removed unserviceable component; 14. 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. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use aircraft maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the hydraulic system; 2.2. Assembling and disassembling of hydraulic components; 2.3. Determining serviceability of components. **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. Team spirit; 4.2. Communication skills; 4.3. Time management skills;

15. Sign job instruction card; 16. Return unserviceable component to quarantine stores.	4.4. Commitment; 4.5. Computer skills; 4.6. Critical thinking skills; 4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	Replacement of components on aircraft's hydraulic system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM COMPONENT REPLACEMENT ON AIRCRAFT SYSTEMS	**DUTY NO.**	501
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S OXYGEN SYSTEM	**TASK NO.**	5015
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's oxygen system 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: Tool kit), Torque wrench, Manual deployment tool, oxygen cylinder and P.P.E.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select tools, equipment and safety gear; 2. Observe Tanzania Civil Aviation Regulation; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Ground the aircraft to an earth point; 8. Obtain serviceable component to be installed from stores; 9. Remove defective component as per AMM; 10. Install serviceable component 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. Verify tools calibration validity; 1.2. Tighten fasteners using torque wrench; 1.3. Use aircraft maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft oxygen system; 2.2. Assembling and disassembling of Oxygen systems components; 2.3. Determining serviceability of component. **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;

13. Store tools, equipment and safety gear appropriately; 14. Sign job instruction card; 15. Return unserviceable component to quarantine stores.	4.4. Computer skills; 4.5. Critical thinking; 4.6. Problem solving skills; 4.7. Ability to work under pressure; 4.8. Interpersonal skills.
Description on the end products / service	Replacement of components on aircraft's oxygen system 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	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT SYSTEMS	**DUTY NO.**	501
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON ICE AND RAIN PROTECTION SYSTEM	**TASK NO.**	5016
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's ice and rain protection system 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: Tool kit, Alternate bleed air source (compressor), Torque wrench and P.P.E.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able to do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe Tanzania Civil Aviation Regulation; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from stores; 8. Remove defective component as per AMM; 9. Install serviceable component as per AMM; 10. Return aircraft to normal configuration; 11. 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. Verify tools calibration validity; 1.2. Tighten fasteners using torque wrench; 1.3. Use aircraft maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft ice and rain protection system; 2.2. Assembling and disassembling ice and rain protection system component; 2.3. Determining serviceability of component. **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;

12. Store tools, equipment and safety gear appropriately; 13. Sign job instruction card; 14. Return unserviceable component to quarantine stores.	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	Replacement of components on aircraft's ice and rain protection system 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	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT SYSTEMS	**DUTY NO.**	501
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S LANDING GEAR SYSTEM	**TASK NO.**	5017
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's landing gear system 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: P.P.E, Tool Kit, Torque wrench, Jacks, Axle bullet, Grease, Cotton rags, chocks, alcohol and seals.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Park aircraft on level ground; 9. Install wheel chocks; 10. Remove hydraulic power from aircraft; 11. Remove defective component as per AMM; 12. Install serviceable component as per AMM; 13. 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. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use aircraft maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the landing gear system; 2.2. Assembling and disassembling landing gear system components; 2.3. Determining serviceability of components. **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. Team spirit; 4.2. Communication skills; 4.3. Time management skills;

14. Clean work area, tools and removed unserviceable component; 15. Store tools, equipment and safety gear appropriately; 16. Sign job instruction card; 17. Return unserviceable component to quarantine stores.	4.4. Commitment; 4.5. Computer skills; 4.6. Critical thinking skills; 4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	Replacement of components on aircraft's landing gear system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT SYSTEMS	**DUTY NO.**	501
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S DOOR SYSTEM	**TASK NO.**	5019
Performance criteria	The person performing this task must be able to carry out replacement of aircraft's door system 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: P.P.E, Tool Kit and Torque wrench.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Remove defective component as per AMM; 9. Install serviceable component as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and removed unserviceable component; 12. Store tools, equipment and safety gear appropriately; 13. Sign job instruction card and cabin logbook;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Use of maintenance tool kit; 1.3. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1. Assembling and disassembling of aircraft door system; 2.2. Determining serviceability of components. **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. Team spirit; 4.2. Communication skills; 4.3. Time management skills; 4.4. Commitment; 4.5. Computer skills; 4.6. Critical thinking skills; 4.7. Problem solving skills;

14. Return unserviceable component to quarantine stores.	4.8. Ability to work under pressure.
Description on the end products / service	Replacement of aircraft's door system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT SYSTEMS	**DUTY NO.**	501
TASK TITLE	PERFORM REPLACEMENT OF AIRCRAFT'S EQUIPMENT AND FURNISHING COMPONENTS	**TASK NO.**	50110
Performance criteria	The person performing this task must be able to carry out replacement of aircraft's equipment and furnishing components 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: P.P.E, Tool Kit and Torque wrench.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Remove defective component as per AMM; 9. Install serviceable component as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and removed unserviceable component; 12. Store tools, equipment and safety gear appropriately; 13. Sign job instruction card and cabin logbook;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Use of maintenance tool kit; 1.3. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1. Assembling and disassembling of aircraft cabin components; 2.2. Determining serviceability of components. **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. Team spirit; 4.2. Communication skills; 4.3. Time management skills; 4.4. Commitment; 4.5. Computer skills; 4.6. Critical thinking skills;

14. Return unserviceable component to quarantine stores.	4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	Replacement of aircraft's equipment and furnishing components is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT SYSTEMS	**DUTY NO.**	501
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S FIRE PROTECTION SYSTEM	**TASK NO.**	50111
Performance criteria	The person performing this task must be able to carry out replacement components on aircraft's fire protection system 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: P.P.E, Tool Kit, Torque wrench and wrist strap.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Wear wrist strap and attach to aircraft earth (ground) point; 9. Remove defective component as per AMM; 10. Install serviceable component as per AMM; 11. Return aircraft to normal configuration; 12. Clean work area, tools and removed unserviceable component. 13. Store tools, equipment and safety gear appropriately; 14. Sign job instruction card;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use of maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of:2.1 Assembling and disassembling of aircraft fire protection components; 2.2 Determining serviceability of components; 2.3 Operation of the 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 Team spirit; 4.2 Communication skills; 4.3 Time management skills;

15. Return unserviceable component to quarantine stores.	4.4 Commitment; 4.5 Computer skills; 4.6 Critical thinking skills; 4.7 Problem solving skills; 4.8 Ability to work under pressure.
Description on the end products / service	Replacement of components on aircraft's fire protection system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE GENERAL VISUAL INSPECTION OF AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	502
TASK TITLE	PERFORM ROUTINE GENERAL VISUAL INSPECTION OF AIRCRAFT'S STABILIZERS	**TASK NO.**	5021
Performance criteria	The person performing this task must be able to carry out general visual inspection of aircraft's stabilizers 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: Tool Kit, Step, Flashlight and P.P.E.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify structure to be inspected; 4. Identify AMM job card to be used; 5. Observe health and safety when performing the task; 6. Return aircraft to normal configuration; 7. Clean work area, tools and inspected structure; 8. Store tools, equipment and safety gear appropriately; 9. Sign job instruction card.	**Detailed knowledge about:** **1.0. Methods** This person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Basic skills of non-destructive testing of aircraft structure; 2.2. Removal and installation of aircraft stabilizers skin panels; 2.3. Determining degree of structural integrity of stabilizer skin panel as per aircraft structure repair manual. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedure Manual (MPM); 3.3. Structure Inspection; 3.4. Basic engineering drawing. **4.0. Essential skills** 4.1. Team spirit; 4.2. Communication skills; 4.3. Time management skills;

	4.4. Commitment; 4.5. Computer skills; 4.6. Critical thinking skills; 4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	General visual inspection on the aircraft's stabilizer structure is performed as per AMM, structure repair manual and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE GENERAL VISUAL INSPECTION OF AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	502
TASK TITLE	PERFORM ROUTINE GENERAL VISUAL INSPECTION OF AIRCRAFT FUSELAGE	**TASK NO.**	5022
Performance criteria	The person performing this task must be able to carry out general visual inspection of aircraft fuselage 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: Tool Kit, Step, Flashlight and P.P.E.		

EVIDENCE REQUIREMENTS	
PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify structure to be inspected; 4. Identify AMM job card to be used; 5. Observe health and safety when performing the task; 6. Return aircraft to normal configuration; 7. Clean work area, tools and inspected structure; 8. Store tools, equipment and safety gear appropriately; 9. Sign job instruction card.	**Detailed knowledge about:** **1.0. Methods** This person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1 Basic skills of non-destructive testing of aircraft structure; 2.2 Removal and Installation of aircraft fuselage skin panels; 2.3 Determining degree of structural integrity of fuselage skin panels as per aircraft structure repair manual. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Structural Inspection; 3.4. Basic engineering drawing. **4.0. Essential skills** 4.1. Team spirit; 4.2. Communication skills; 4.3. Time management skills; 4.4. Commitment; 4.5. Computer skills;

	4.6. Critical thinking skills; 4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	General visual inspection on the aircraft fuselage is performed as per AMM, structure repair manual and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE GENERAL VISUAL INSPECTION OF AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	502
TASK TITLE	PERFORM ROUTINE GENERAL VISUAL INSPECTION OF AIRCRAFT'S WINDOWS	**TASK NO.**	5023
Performance criteria	The person performing this task must be able to carry out general visual inspection of aircraft's windows 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: Tool Kit, Step, Flashlight and P.P.E.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify structure to be inspected; 4. Identify AMM job card to be used; 5. Observe health and safety when performing the task; 6. Return aircraft to normal configuration; 7. Clean work area, tools and inspected structure; 8. Store tools, equipment and safety gear appropriately; 9. Sign job instruction card.	**Detailed knowledge about:** **1.0. Methods** This person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Basic operations of aircraft windshield windows; 2.2. Removal and installation of aircraft windows; 2.3. Determining degree of structural integrity of aircraft windows as per aircraft structure repair manual. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Structural inspection; 3.4. Basic engineering drawing. **4.0. Essential skills** 4.1. Team spirit; 4.2. Communication skills; 4.3. Time management skills; 4.4. Commitment; 4.5. Computer skills;

	4.6. Critical thinking skills; 4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	General visual inspection of the aircraft's windows is performed as per AMM, structure repair manual and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE GENERAL VISUAL INSPECTION OF AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	502
TASK TITLE	PERFORM ROUTINE GENERAL VISUAL INSPECTION OF AIRCRAFT WINGS	**TASK NO.**	5024
Performance criteria	The person performing this task must be able to carry out general visual inspection of aircraft wings 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: Tool Kit, Mirrors, Step, Flashlight and P.P.E.		

EVIDENCE REQUIREMENTS	
PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify structure to be inspected; 4. Identify AMM job card to be used; 5. Observe health and safety when performing the task; 6. Return aircraft to normal configuration; 7. Clean work area, tools and inspected structure; 8. Store tools, equipment and safety gear appropriately; 9. Sign job instruction card.	**Detailed knowledge about:** **1.0. Methods** This person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Removal and installation of aircraft wings skin panels; 2.2. Determining degree of structural integrity of aircraft wings skin panels as per aircraft structure repair manual. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. Maintenance Procedures; 3.3. Structural inspection; 3.4. Basic engineering drawing. **4.0. Essential skills** 4.1. Team spirit; 4.2. Communication skills; 4.3. Time management skills; 4.4. Commitment; 4.5. Computer skills; 4.6. Critical thinking skills;

	4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	General visual inspection of the aircraft wings is performed as per AMM, structure repair manual and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE GENERAL VISUAL INSPECTION OF AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	502
TASK TITLE	PERFORM ROUTINE GENERAL VISUAL INSPECTION OF AIRCRAFT DOORS	**TASK NO.**	5025
Performance criteria	The person performing this task must be able to carry out general visual inspection of aircraft doors 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: Tool Kit, Step, Flashlight and P.P.E.		

EVIDENCE REQUIREMENTS	
PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify structure to be inspected; 4. Identify AMM job card to be used; 5. Observe health and safety when performing the task; 6. Return aircraft to normal configuration; 7. Clean work area, tools and inspected structure; 8. Store tools, equipment and safety gear appropriately; 9. Sign job instruction card.	**Detailed knowledge about:** **1.0. Methods** This person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 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 doors; 2.2. Inspecting aircraft door components; 2.3. Determining degree of structural integrity of aircraft doors as per aircraft structure repair manual. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. MPM; 3.3. Structure Repair Manual; 3.4. Basic engineering drawing. **4.0. Essential skills** 4.1. Team spirit; 4.2. Communication skills; 4.3. Time management skills; 4.4. Commitment; 4.5. Computer skills;

	4.6. Critical thinking skills; 4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	General visual inspection of the aircraft doors is performed as per AMM, structure repair manual and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE GENERAL VISUAL INSPECTION OF AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	502
TASK TITLE	PERFORM ROUTINE GENERAL VISUAL INSPECTION OF AIRCRAFT NACELLE	**TASK NO.**	5026
Performance criteria	The person performing this task must be able to carry out general visual inspection of aircraft nacelle 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: Tool Kit, Step, Flashlight and P.P.E.		

EVIDENCE REQUIREMENTS	
PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations 3. Identify structure to be inspected; 4. Identify AMM job card to be used; 5. Observe health and safety when performing the task; 6. Return aircraft to normal configuration; 7. Clean work area, tools and inspected structure; 8. Store tools, equipment and safety gear appropriately; 9. Sign job instruction card.	**Detailed knowledge about:** **1.0. Methods** This person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 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 nacelle; 2.2. Inspecting aircraft nacelle components; 2.3. Determining degree of structural integrity of aircraft nacelle as per aircraft structure repair manual. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. MPM; 3.3. Structure Repair Manual; 3.4. Basic engineering drawing. **4.0. Essential skills** 4.1. Team spirit; 4.2. Communication skills; 4.3. Time management skills; 4.4. Commitment; 4.5. Computer skills;

	4.6. Critical thinking skills; 4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	General visual inspection of the aircraft nacelle is performed as per AMM, structure repair manual and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE GENERAL VISUAL INSPECTION OF AIRCRAFT AIRFRAME STRUCTURE	**DUTY NO.**	502
TASK TITLE	PERFORM ROUTINE GENERAL VISUAL INSPECTION OF AIRCRAFT EQUIPMENT AND FURNISHING	**TASK NO.**	5027
Performance criteria	The person performing this task must be able to carry out general visual inspection of aircraft equipment and furnishing 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: Tool Kit, Step, Flashlight and P.P.E.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify structure to be inspected; 4. Identify AMM job card to be used; 5. Observe health and safety when performing the task; 6. Return aircraft to normal configuration; 7. Clean work area, tools and inspected structure; 8. Store tools, equipment and safety gear appropriately; 9. Sign job instruction card.	**Detailed knowledge about:** **1.0. Methods** This person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Use aircraft maintenance tool kit. **2.0. Principles** The person must be able to explain the principles of: 2.1. Inspecting aircraft equipment and furnishing components; 2.2. Determining degree of structural integrity of aircraft equipment and furnishing as per aircraft structure repair manual. **3.0. Theories** The person must be able to explain: 3.1. TCAA regulations; 3.2. MPM; 3.3. Structure Repair Manual; 3.4. Basic engineering drawing. **4.0. Essential skills** 4.1. Team spirit; 4.2. Communication skills; 4.3. Time management skills; 4.4. Commitment; 4.5. Computer skills;

	4.6. Critical thinking skills; 4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	General visual inspection of the aircraft's equipment and furnishing is performed as per AMM, structure repair manual and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT APU	**DUTY NO.**	503
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT APU STRUCTURE	**TASK NO.**	5031
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft APU structure 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: Tool Kit, Torque wrench, step and P.P.E.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Remove defective component as per AMM; 9. Install serviceable component as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and removed unserviceable component; 12. Store tools, equipment and safety gear appropriately; 13. Sign job instruction card; 14. Return unserviceable component to quarantine stores.	**Detailed knowledge about:** **1.0. Methods** This person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Torque fasteners using a torque wrench; 1.3. Use aircraft maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1. Constructing APU; 2.2. Assembling and disassembling aircraft APU components; 2.3. Determining serviceability of component. **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. Team spirit; 4.2. Communication skills; 4.3. Time management skills; 4.4. Commitment; 4.5. Computer skills; 4.6. Critical thinking skills;

	4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	Replacement of components on the aircraft APU structure is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT APU	**DUTY NO.**	503
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT APU SYSTEMS	**TASK NO.**	5032
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft APU systems 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: Tool Kit, Torque wrench, step and P.P.E.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Open and tag appropriate circuit breakers on APU control system; 9. Remove defective component as per AMM; 10. Install serviceable component as per AMM; 11. Return aircraft to normal configuration; 12. Clean work area, tools and removed unserviceable component; 13. Store tools, equipment and safety gear appropriately; 14. Sign job instruction card;	**Detailed knowledge about:** **1.0. Methods** This person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Torque fasteners using a torque wrench; 1.3. Use aircraft maintenance tool kit; 1.4. Preserve components after removal. **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 aircraft APU systems components; 2.3. Determining serviceability of component. **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. Team spirit; 4.2. Communication skills; 4.3. Time management skills; 4.4. Commitment; 4.5. Computer skills;

15. Return unserviceable component to quarantine stores.	4.6. Critical thinking skills; 4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	Replacement of components on the aircraft APU systems is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT PISTON ENGINE	**DUTY NO.**	504
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S PISTON ENGINE STRUCTURE	**TASK NO.**	5041
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's piston engine structure 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: P.P.E, Tool Kit, Torque wrench and Engine stand.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Remove defective component as per AMM; 9. Install serviceable component as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and removed unserviceable component; 12. Store tools, equipment and safety gear appropriately; 13. Sign job instruction card;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use of maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1 Constructing piston engine structure 2.2 Assembling and disassembling of aircraft piston engine components2.3 Determining serviceability of components **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 Team spirit; 4.2 Communication skills; 4.3 Time management skills; 4.4 Commitment;

14. Return unserviceable component to quarantine stores.	4.5 Computer skills; 4.6 Critical thinking skills; 4.7 Problem solving skills; 4.8 Ability to work under pressure.
Description on the end products / service	Replacement of components on aircraft's piston engine structure is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT'S PISTON ENGINE	**DUTY NO.**	504
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S PISTON ENGINE FUEL AND CONTROL SYSTEM	**TASK NO.**	5042
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's piston engine fuel and control system 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: P.P.E, Tool Kit, Torque wrench, Seals, Cotton rags, Explosimeter (Gas detector) and Containers.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Close engine fuel supply shut off valves; 9. Remove defective component as per AMM; 10. Install serviceable component as per AMM; 11. 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. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use of maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of:2.1 Constructing piston engine structure; 2.2 Assembling and disassembling of aircraft piston engine components; 2.3 Determining serviceability of components. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures;

12. Clean work area, tools and removed unserviceable component; 13. Store tools, equipment and safety gear appropriately; 14. Sign job instruction card; 15. Return unserviceable component to quarantine stores.	3.3 Basic engineering drawing. **4.0. Essential skills** 4.1 Team spirit; 4.2 Communication skills; 4.3 Time management skills; 4.4 Commitment; 4.5 Computer skills; 4.6 Critical thinking skills; 4.7 Problem solving skills; 4.8 Ability to work under pressure.
Description on the end products / service	Replacement of components on aircraft's piston engine fuel and control system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT'S PISTON ENGINE	**DUTY NO.**	504
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S PISTON ENGINE IGNITION SYSTEM	**TASK NO.**	5043
Performance criteria	The person performing this task must be able to carry out replacement components on aircraft's piston engine ignition system 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: P.P.E, Tool Kit, Torque wrench, spark plugs, gaskets and ignition exciter.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Wait a minimum of six minutes after ignition system stops; 9. Remove defective component as per AMM; 10. Install serviceable component as per AMM; 11. 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. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use of maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1 Operation of piston engine ignition system; 2.2 Assembling and disassembling of aircraft piston engine ignition system components; 2,3 Determining serviceability of components. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing.

12. Clean work area, tools and removed unserviceable component 13. Store tools, equipment and safety gear appropriately 14. Sign job instruction card 15. Return unserviceable component to quarantine stores	**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	Replacement of components on aircraft's piston engine ignition system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations,

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT'S PISTON ENGINE	**DUTY NO.**	504
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S PISTON ENGINE INDUCTION SYSTEM	**TASK NO.**	5044
Performance criteria	The person performing this task must be able to carry out replacement components on aircraft's piston engine induction system 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: P.P.E, Tool Kit and Torque wrench.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Remove defective component as per AMM; 9. Install serviceable component as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and removed unserviceable component; 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. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use of maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1 Operation of piston engine induction system; 2.2 Assembling and disassembling of aircraft piston engine induction system components; 2.3 Determining serviceability of components. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing.

13. Sign job instruction card; 14. Return unserviceable component to quarantine stores.	**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	Replacement of components on aircraft's piston engine induction system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT'S PISTON ENGINE	**DUTY NO.**	504
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S PISTON ENGINE OIL SYSTEM	**TASK NO.**	5045
Performance criteria	The person performing this task must be able to carry out replacement components on aircraft's piston engine oil system 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: P.P.E, Tool Kit, Torque wrench, Blanks, Cotton rags, Container, Oil and Seals.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Remove defective component as per AMM; 9. Install serviceable component as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and removed unserviceable component; 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. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use of maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of piston engine oil system; 2.2. Assembling and disassembling of aircraft piston engine oil system components; 2.3. Determining serviceability of components. **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;

13. Sign job instruction card; 14. Return unserviceable component to quarantine stores.	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	Replacement of components on aircraft's piston engine oil system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT'S GAS TURBINE ENGINE	**DUTY NO.**	505
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S GAS TURBINE ENGINE STRUCTURE	**TASK NO.**	5051
Performance criteria	The person performing this task must be able to carry out replacement components on aircraft's gas turbine engine structure 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: P.P.E, Tool Kit, Torque wrench, Hoist, Steps and Engine Stand.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Remove defective component as per AMM; 9. Install serviceable component as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and removed unserviceable component; 12. Store tools, equipment and safety gear appropriately; 13. Sign job instruction card;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use of maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 1.1. Constructing gas turbine engine structure; 1.2. Removing and installing components on aircraft gas turbine engine structure; 1.3. Determining serviceability of components. **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;

14. Return unserviceable component to quarantine stores.	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	Replacement of components on aircraft's gas turbine structure is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT'S GAS TURBINE ENGINE	**DUTY NO.**	505
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT GAS TURBINE ENGINE FUEL SYSTEM	**TASK NO.**	5052
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's gas turbine engine fuel system 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: P.P.E, Tool Kit, Torque wrench, Leak detector, Steps and Seals.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Ground the aircraft to an earth point; 3. Observe TCAA regulations; 4. Identify component to be replaced; 5. Identify AMM job card to be used; 6. Check tools calibration; 7. Observe health and safety when performing the task; 8. Obtain serviceable component to be installed from bonded stores; 9. Close the engine fuel supply shut off valves; 10. Open and tag circuit breakers of the engine fuel system; 11. Remove defective component as per AMM; 12. Install serviceable component as per AMM 13. Return aircraft to normal configuration; 14. Clean work area, tools and removed unserviceable component;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use of maintenance tool kit; 1.4. Preserve components after removal. **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 of aircraft gas turbine engine fuel system components; 2.3. Determining serviceability of components. **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;

15. Store tools, equipment and safety gear appropriately; 16. Sign job instruction card; 17. Return unserviceable component to quarantine stores.	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	Replacement of components on aircraft's gas turbine engine fuel system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT'S GAS TURBINE ENGINE	**DUTY NO.**	505
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S GAS TURBINE ENGINE IGNITION SYSTEM	**TASK NO.**	5053
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's gas turbine engine ignition system 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: P.P.E, Tool Kit, Torque wrench and Seals.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Wait a minimum of six minutes after ignition system stops; 9. Remove defective component as per AMM; 10. Install serviceable component as per AMM; 11. 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. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use of maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1 Operation of aircraft gas turbine ignition system; 2.2 Assembling and disassembling of aircraft gas turbine engine ignition system components; 2.3 Determining serviceability of components. **3.0. Theories:** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing.

12. Clean work area, tools and removed unserviceable component 13. Store tools, equipment and safety gear appropriately 14. Sign job instruction card 15. Return unserviceable component to quarantine stores	**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	Replacement of components on aircraft's gas turbine engine ignition system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT'S GAS TURBINE ENGINE	**DUTY NO.**	505
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S GAS TURBINE ENGINE AIR SYSTEM	**TASK NO.**	5054
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's gas turbine engine air system 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: P.P.E, Tool Kit, Torque wrench, Blanks and Gaskets.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Remove defective component as per AMM; 9. Install serviceable component as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and removed unserviceable component; 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. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use of maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1 Operation of aircraft gas turbine air system; 2.2 Assembling and disassembling of aircraft gas turbine engine air system components; 2.3 Determining serviceability of components. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing.

13. Sign job instruction card; 14. Return unserviceable component to quarantine stores.	**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	Replacement of components on aircraft's gas turbine engine air system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT'S GAS TURBINE ENGINE	**DUTY NO.**	505
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S GAS TURBINE ENGINE CONTROL SYSTEM	**TASK NO.**	5055
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's gas turbine engine control system 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: P.P.E, Tool Kit, Torque wrench, Blanks and Gaskets.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Remove defective component as per AMM; 9. Install serviceable component as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and removed unserviceable component; 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. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use of maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1 Operation of aircraft gas turbine control system; 2.2 Assembling and disassembling of aircraft gas turbine engine control system components; 2.3 Determining serviceability of components. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures;

13. Sign job instruction card; 14. Return unserviceable component to quarantine stores.	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 on the end products / service	Replacement of components on aircraft's gas turbine engine control system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT'S GAS TURBINE ENGINE	**DUTY NO.**	505
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S GAS TURBINE ENGINE INDICATING SYSTEM	**TASK NO.**	5056
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's gas turbine engine indicating system 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: P.P.E, Tool Kit, Torque wrench, Blanks, Alcohol and Seals.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Open and tag circuit breakers of the engine indicating system; 9. Remove defective component as per AMM; 10. Install serviceable component as per AMM; 11. 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. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use of maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1 Operation of aircraft gas turbine indicating system; 2.2 Assembling and disassembling of aircraft gas turbine engine indicating system components; 2.3 Determining serviceability of components. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures; 3.3 Basic engineering drawing.

12. Clean work area, tools and removed unserviceable component; 13. Store tools, equipment and safety gear appropriately; 14. Sign job instruction card; 15. Return unserviceable component to quarantine stores.	**4.0. Essential skills** 1.1. Communication skills; 1.2. Time management skills; 1.3. Commitment; 1.4. Computer skills; 1.5. Critical thinking skills; 1.6. Problem solving skills; 1.7. Ability to work under pressure; 1.8. Interpersonal skills.
Description on the end products / service	Replacement of components on aircraft's gas turbine engine indicating system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT'S GAS TURBINE ENGINE	**DUTY NO.**	505
TASK TITLE	PERFORM REPLACEMENT OF COMPONENTS ON AIRCRAFT'S GAS TURBINE ENGINE OIL SYSTEM	**TASK NO.**	5057
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's gas turbine engine oil system 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: P.P.E, Tool Kit, Torque wrench, Blanks, Cotton rags, Container, Oil and Seals.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Remove defective component as per AMM; 9. Install serviceable component as per AMM; 10. Replenish engine with oil; 11. Return aircraft to normal configuration; 12. Clean work area, tools and removed unserviceable component;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use of maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1 Operation of aircraft gas turbine oil system; 2.2 Assembling and disassembling of aircraft gas turbine engine oil system components; 2.3 Determining serviceability of components. **3.0. Theories** The person must be able to explain: 3.1 TCAA regulations; 3.2 Maintenance Procedures;

13. Store tools, equipment and safety gear appropriately; 14. Sign job instruction card; 15. Return unserviceable component to quarantine stores.	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 on the end products / service	Replacement of components on aircraft's gas turbine engine oil system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT'S PROPELLER	**DUTY NO.**	506
TASK TITLE	PERFORM COMPONENT REPLACEMENT ON AIRCRAFT'S PROPELLER STRUCTURE	**TASK NO.**	5061
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's propeller structure 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: P.P.E, Tool Kit, Torque wrench and Steps.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Remove defective component as per AMM; 9. Install serviceable component as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and removed unserviceable component; 12. Store tools, equipment and safety gear appropriately; 13. Sign job instruction card;	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use aircraft maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft propeller structure; 2.2. Assembling and disassembling aircraft propeller structure components; 2.3. Determining serviceability of components. **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. Team spirit; 4.2. Communication skills; 4.3. Time management skills; 4.4. Commitment; 4.5. Computer skills;

14. Return unserviceable component to quarantine stores.	4.6. Critical thinking skills; 4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	Replacement of components on aircraft's propeller structure is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

OCCUPATION	AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWERPLANT)	**OCCUPATION CODE**	3143
DUTY TITLE	PERFORM ROUTINE COMPONENT REPLACEMENT ON AIRCRAFT'S PROPELLER	**DUTY NO.**	506
TASK TITLE	PERFORM COMPONENT REPLACEMENT ON AIRCRAFT'S PROPELLER SYSTEM	**TASK NO.**	5062
Performance criteria	The person performing this task must be able to carry out replacement of components on aircraft's propeller system 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: P.P.E, Tool Kit, Torque wrench, Steps, Oil, Oil ring, Cotton rags, and seals.		

EVIDENCE REQUIREMENTS

PRACTICAL PERFORMANCE	**UNDERPINNING KNOWLEDGE**
The person performing this task must be able do the following: 1. Select right tools, equipment and safety gears for the task; 2. Observe TCAA regulations; 3. Identify component to be replaced; 4. Identify AMM job card to be used; 5. Check tools calibration; 6. Observe health and safety when performing the task; 7. Obtain serviceable component to be installed from bonded stores; 8. Remove defective component as per AMM; 9. Install serviceable component as per AMM; 10. Return aircraft to normal configuration; 11. Clean work area, tools and removed unserviceable component; 12. Store tools, equipment and safety gear appropriately; 13. Sign job instruction card; 14. Return unserviceable component to quarantine stores.	**Detailed knowledge about:** **1.0. Methods** The person performing this task must be able to explain how to: 1.1. Verify tools calibration validity; 1.2. Tighten fasteners using a torque wrench; 1.3. Use aircraft maintenance tool kit; 1.4. Preserve components after removal. **2.0. Principles** The person must be able to explain the principles of: 2.1. Operation of the aircraft propeller system; 2.2. Assembling and disassembling aircraft propeller system components; 2.3. Determining serviceability of components. **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. Team spirit; 4.2. Communication skills; 4.3. Time management skills;

	4.4. Commitment; 4.5. Computer skills; 4.6. Critical thinking skills; 4.7. Problem solving skills; 4.8. Ability to work under pressure.
Description on the end products / service	Replacement of components on aircraft's propeller system is performed as per AMM and TCAA regulations.
Circumstantial knowledge	**Detailed knowledge about:** 1. Safe handling of component and tools; 2. Extent of responsibility; 3. Occupational safety and health; 4. TCAA regulations.

TABLE 1: DACUM CHARTS FOR AIRCRAFT MAINTENANCE ENGINEERING TECHNICIAN (AIRFRAME & POWER-PLANT) LEVEL 5

DUTIES	TASK	TASK ELEMENTS	ENABLERS
1.0. Perform routine component replacement on aircraft's systems.	1.1. Perform replacement of components on aircraft's air conditioning system.	1.1.1. Replace: a. Air condition computers b. Air cycle machine c. Heat exchanger d. Temperature sensor e. Pressure sensor f. Recirculation fan	**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
	1.2. Replace components on aircraft's fuel system.	1.2.1. Replace: a. Fuel computer b. Fuel pumps c. Drain valves	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		d. Cross feed valve e. Fuel shut off valves f. Fuel temperature sensor g. Fuel filters h. Fuel pressure sensors i. Fuel level sensors	**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
	1.3. Replace components on aircraft's flight control system.	1.3.1. Replace: a. Yaw damper b. Flight control electronic unit c. Flight control actuators d. Flight control columns and wheels	**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
		e. Flight control bell cranks	• Tension meter • Rigging pins • Lock collar • Target de-actuator • Torque wrench • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	1.4. Replace components on aircraft's hydraulic system.	1.4.1. Replace: a. Hydraulic level sensor b. Hydraulic accumulator c. Engine driven hydraulic pumps d. Electric hydraulic pumps e. Hydraulic pressure sensors	**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
		f. Hydraulic temperature sensors g. Hydraulic heat exchanger	**Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	1.5. Replace components on aircraft's oxygen system.	1.5.1. Replace: a. Oxygen quantity indicator b. Protective breathing equipment (PBE) c. Oxygen cylinder	**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 • Torque wrench • Tool kit **Worker behaviours** • Team spirit • Trustworthy • Time management • Commitment

DUTIES	TASK	TASK ELEMENTS	ENABLERS
	1.6. Replace components on aircraft's ice and rain protection system.	1.6.1. Replace: a. Airframe deicer boots b. Engine intake deicer boots c. Windshields and pilot side window panels d. Pitot-static probe heaters e. AOA heaters f. Brush block, bracket unit and slip rings g. Ice detector probes	**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
	1.7. Replace components on aircraft's landing gear system.	1.7.1. Replace: a. Nose and main landing gear shock strut and drag strut b. Yoke and stabilizer brace of main landing gear	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment**

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		c. Nose and main landing gear doors d. Landing gear wheels e. Landing gear brakes f. Landing gear bypass valve g. Landing gear selector valve h. Landing gear door actuators i. Antiskid control valve and antiskid system control unit j. Brake control valve k. Parking brake control unit l. Wheel speed transducers m. Nose wheel steering control unit n. Power steering unit and hydraulic steering motor o. Proximity sensor electronic unit	• 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

DUTIES	TASK	TASK ELEMENTS	ENABLERS
	1.8. Replace components on aircraft's water and waste system.	1.8.1. Replace: a. Cable control unit b. Water heater c. Pressure relief valve d. Fill adaptor e. Overflow/vent pipe f. Drain valve g. Air stop valve h. Overflow tube i. Clean water drain pipe j. Toilet tank overflow pipe	**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
	1.9. Replace components on aircraft's door system.	1.9.1. Replace: a. Hinge shaft b. Door shell c. Door drain valves d. Door retainer bracket e. Door seals	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment**

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		f. Door seal pressurization system desiccant filter g. Door seal pneumatic system h. Water inside inflatable door seals i. Door seal control valve j. Door drain valve and reservoir tank k. Heated check valve l. Charge valve m. Flap cover n. Interlock cam assembly	• Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	1.10. Replace components on aircraft's equipment and furnishing.	1.10.1. Replace: a. Pilot, co-pilot, flight attendant, passenger and observer seats b. Inertia reel lock c. Recline adjustment lever d. Seat heater	**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
		e. Pilot, co-pilot, flight attendant, and observer seat heater f. Flight compartment equipment g. Portable meal tray h. Overhead storage bins i. Passenger service unit	• Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	1.11. Replace components on aircraft's fire protection system.	Replace: a. Fire sensing elements b. Fire extinguisher cartridges c. Fire extinguisher bottles d. Lavatory smoke detectors	**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

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Trustworthy • Time management • Commitment
2.0 Perform routine general visual inspection of aircraft airframe structure	2.1. Perform routine general visual inspection of aircraft stabilizers.	2.1.1. Inspect: a. External structure of vertical stabilizers b. External structure of horizontal stabilizers c. External structure of elevator d. External structure 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 • Step • Flashlight **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment

DUTIES	TASK	TASK ELEMENTS	ENABLERS
	2.2. Perform routine general visual inspection of aircraft's fuselage.	2.2.1. Inspect: a. External nose fuselage section b. External mid fuselage section c. External aft fuselage section d. Bulkhead e. Forward bulkhead	**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
	2.3. Perform routine general visual inspection of aircraft's windows.	2.3.1. Inspect: a. Passenger compartment windows b. Flight compartment windshield	**Generic skills and knowledge** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment**

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		c. Flight compartment windows seals d. Passenger compartment window seals	• Personal Protective Equipment: safety shoes, dust coat and gloves • Flashlight • Tool kit **Worker behaviours** • Team spirit • Trustworthy • Time management • Commitment
	2.4. Perform routine general visual inspection of aircraft's wings.	2.4.1. Inspect: 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

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Trustworthy • Time management • Commitment
	2.5. Perform routine general visual inspection of aircraft's doors.	2.5.1. Inspect: a. Aircraft doors b. Door seal pneumatic system c. Door hinge shaft d. Door shell e. Door step f. Door lift and latch mechanism g. Handle mechanism h. Vent mechanism i. Door lift and latch mechanism j. Door balance mechanism k. Door lift mechanism l. Handrail 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 **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.6. Perform routine general visual inspection of aircraft's nacelle.	2.6.1. Inspect: a. Nacelle access panels b. Nacelle lower cowl sling and lanyard	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		c. Engine lower cowl cover	**Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Flashlight • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	2.7. Perform routine general visual inspection of aircraft's equipment and furnishing.	2.7.1. Inspect: a. Pilot, co-pilot, flight attendant, passenger and observer seats b. Inertia reel lock c. Recline adjustment lever d. Heated seats pan e. Seat heater	**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
		f. Pilot, co-pilot, flight attendant, and observer seat heater g. Flight compartment equipment h. Portable meal tray i. Overhead storage bins j. Passenger service unit	• Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
3.0. Perform routine component replacement on APU	3.1. Replace components on APU structure.	3.1.1. Replace: a. APU mounts b. APU protective screen (mesh) c. APU drains d. Fire proof e. APU exhaust silencer f. Gearbox cooling duct g. Gearbox inlet and outlet 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 • Tool kit **Worker behaviours:** • Team spirit • Trustworthy

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Time management • Commitment
	3.2. Replace components on APU systems.	3.2.1. Replace: a. Starter generator b. Oil cooler c. FMU d. Ignition exciter e. Igniter plugs	**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
4.0. Perform routine components replacement on aircraft's piston engine	4.1. Replace components of the aircraft's piston engine structure.	4.1.1. Replace: a. Engine crankcase b. Piston engine cylinder and components c. Intake Pipe d. Vacuum Pump	**Generic skills and knowledge:** • Using communication skills to work with others and reporting to supervisors **Tools and Equipment**

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		e. Propeller Governor Drive	• Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	4.2. Replace components of the aircraft's piston engine fuel and control system.	4.2.1. Replace: a. Piston engine rings b. Engine control cables c. Fuel injectors d. Gaskets and seals e. Fuel lines f. Injection fuel nozzles g. Engine fuel pump h. Fuel manifold	**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
	4.3. Replace components of the aircraft's piston engine ignition system.	4.3.1. Replace spark plugs	**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
	4.4. Replace components of the aircraft's piston engine induction system.	4.4.1. Replace: a. Intake pipe b. Fuel Drain Valve Adapter Assembly	**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
	4.5. Replace components of the aircraft's piston engine oil system.	4.5.1. Replace: a. Oil lines b. Oil pressure screen c. Oil pressure relief valve d. Thermostatic oil cooler bypass valve e. Oil filter f. Oil sump drain plug g. Oil sump	**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:**

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Team spirit • Trustworthy • Time management • Commitment
5.0. Perform routine component replacement on aircraft's gas turbine engine	5.1. Replace components of the aircraft's gas turbine engine structure.	5.1.1. Replace: a. Engine (complete) b. Engine cowlings	**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
	5.2. Replace components of the aircraft's gas turbine engine fuel system.	5.2.1. Replace: a. Fuel temperature sensor b. Fuel pressure switch	**Generic skills and knowledge** • Using communication skills to work with others and reporting to supervisors

DUTIES	TASK	TASK ELEMENTS	ENABLERS
		c. Fuel nozzles and manifold	**Tools and Equipment** • Personal Protective Equipment: safety shoes, dust coat and gloves • Tool kit **Worker behaviours** • Team spirit • Trustworthy • Time management • Commitment
	5.3. Replace components of the aircraft's gas turbine engine ignition system.	5.3.1. Replace: a. Ignition plugs b. Ignition cables c. 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

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Time management • Commitment
	5.4. Replace components of the aircraft's gas turbine engine air system.	5.4.1. Replace: a. LP compressor bleed valves b. HP compressor bleed valves c. Engine pressure regulating shut off valves d. Pressure transducers	**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
	5.5. Replace components of the aircraft's gas turbine engine control system.	5.5.1. Replace engine electronic control computer	**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
	5.6. Replace components of the aircraft's gas turbine engine indicating system.	5.6.1. Replace: a. Torque sensor b. LP rotor speed sensor c. HP rotor speed 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

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Commitment
	5.7. Replace components of the aircraft's gas turbine engine oil system.	5.7.1. Replace: a. Oil filters b. Oil filters c. Engine oil pump d. Oil pressure sensor e. Oil temperature sensor f. Oil cooler bypass valve g. Oil cooler	**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
6.0. Perform routine component replacement on aircraft's propeller	6.1. Replace components of the aircraft's propeller structure.	6.1.1. Replace: a. Propeller blade b. Propeller spinner c. Propeller hub d. Beta tube	**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 • Step • Tool kit **Worker behaviours:** • Team spirit • Trustworthy • Time management • Commitment
	6.2. Replace components of the aircraft's propeller controlling system.	6.2.1. Replace: 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	**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 • Tool kit **Worker behaviours:**

DUTIES	TASK	TASK ELEMENTS	ENABLERS
			• Team spirit • Trustworthy • Time management • Commitment