REPUBLIC OF KENYA

COMPETENCY BASED MODULAR CURRICULUM FOR AIRPORT OPERATIONS KNQF LEVEL 6

(CYCLE 3)

PROGRAMME ISCED CODE: 1015 554 A

TVET CDACC
P.O. BOX 15745-00100 NAIROBI

AERODROME WORKS

ISCED UNIT CODE: 101555108A

TVET CDACC UNIT CODE: LOG/CU/AO/CR/06/6/MA

Relationship to Occupational Standards

This unit addresses the Unit of Competency: **Carry Out Aerodrome Works**

Duration of Unit: 160 Hours

Unit Description

This unit specifies the competencies required to determine aerodrome works. It involves inspecting aerodrome serviceability, reporting hazardous serviceability, facilitating repairs aerodrome, reporting aerodrome serviceability, facilitating aerodrome access and maintaining aerodrome works.

Summary of Learning Outcomes

By the end of this unit, the learner should be able to:

S/No	Learning Outcomes	Duration (Hours)
1.	Inspect aerodrome serviceability	25
2.	Report hazardous serviceability	20
3.	Facilitate aerodrome repairs	20
4	Report aerodrome serviceability	25
5	Facilitate aerodrome access	25
6	Prepare aerodrome works	25
7	Maintain aerodrome works	20
	Total	**160**

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods

1. Inspect Aerodrome Serviceability	1.1 Introduction to aerodrome services. 1.2 Classification of aerodromes. 1.3 Aerodrome layout. 1.4 Components of aerodromes. 1.5 Inspection Aerodrome equipment. 1.6 Aerodrome equipment serviceability. 1.7 Environmental analysis. 1.8 Aerodromes accessibility. 1.9 Equipment maintenance procedures	• Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing
2. Report Hazardous Serviceability	2.1 Introduction to hazards. 2.2 Hazards indications. 2.3 Types of hazards. 2.4 Hazards reporting process. 2.5 Hazards disseminations. 2.6 Hazards disposal procedures. 2.7 Hazards prevention methods. 2.8 Impacts of hazards.	• Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing
3. Facilitate Aerodrome Repairs	3.1 Importance of aerodromes repairs. 3.2 Routine aerodrome maintenance procedures. 3.3 Airport facilities. 3.4 Airport markings, signage and colours. 3.5 Communication and navigations facilities.	• Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing
4. Report Aerodrome Serviceability	4.1 Introduction to reporting procedures. 4.2 Promulgations of airport notices. 4.3 Function unit conditions.	• Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing

5. Facilitate Aerodrome Access	5.1 Introduction to airport access procedures. 5.2 Personnel access. 5.3 Vehicle and equipment access. 5.4 Security control measure to access the airport. 5.5 Vetting of personnel. 5.6 Procedure of handling emergency situation.	• Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing
6. Prepare Aerodrome Works	6.1 Introduction to aerodromes works. 6.2 Work plan. 6.3 Aerodromes routine maintenance schedule. 6.4 Operating standards for certified equipment. 6.5 Factors affecting safety. 6.6 Risks control measures.	• Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing
7. Maintain Aerodrome Works.	7.1 Introduction to maintenance aerodrome works. 7.2 Aerodromes movement areas. 7.3 Methods of working plans. 7.4 NOTAMs. 7.5 Procedures of marker and barriers	• Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing

Suggested Methods of Delivery
- Project
- Demonstration by trainer
- Practice by the trainee
- Discussions
- Direct instruction
- Case study
- Audio –visual aids

Recommended Resources

- Refuelers
- Tugs and tractors
- Ground power units
- Buses
- Container loader
- Transporters
- Air Start Unit (ASU)
- Potable water trucks
- Lavatory service vehicles
- Catering vehicle
- Belt loaders
- Passenger boarding steps/stairs
- Pushback tugs and tractors
- De/anti-icing vehicles