



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**

AIRSPACE PROTECTION

ISCED UNIT CODE: 101555110A

TVET CDACC UNIT CODE: LOG/OS/AO/CR/07/6/MA

Relationship to Occupational Standards

This unit addresses the Unit of Competency: **Provide Airspace Protection**

Duration of Unit: 200 Hours

Unit Description

This unit specifies the competencies required to provide airspace protection. It involves applying controlled airspace procedures, applying unusual and emergency response procedures, managing passengers during normal operations, managing passengers during an abnormal or emergency situation and managing air cargo.

Summary of Learning Outcomes

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

S/No	Learning Outcomes	Duration (Hours)
1.	Apply controlled airspace procedures	50
2.	Apply unusual and emergency response procedures	50
3.	Manage passengers during normal operations	30
4	Manage passengers during an unusual or emergency	30
5	Manage Air cargo	40
	Total	200

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Apply Controlled Airspace Procedures	1.1 Introduction to airside safety. 1.2 Classes of airspace. 1.3 Airspace control instruction.	<ul style="list-style-type: none">• Written tests• Observation• Oral questions

	<p>1.4 Weather conditions affecting airspace.</p> <p>1.5 Air traffic service unit.</p> <p>1.6 Navigation charts.</p> <p>1.7 Separation of IFR and VFR.</p> <p>1.8 Restricted prohibited and danger areas.</p> <p>1.9 Radio navigation.</p> <p>1.10 Rules of the air.</p> <p>1.11 Abnormal and emergency situation.</p>	<ul style="list-style-type: none"> • Third party report • Interviewing • Project and report writing
2. Apply Unusual and Emergency Response Procedures	<p>2.1 Introduction to unusual and emergence response.</p> <p>2.2 Unusual emergence guidelines.</p> <p>2.3 Apply abnormal situation.</p> <p>2.4 Emergency plan.</p> <p>2.5 Air traffic communication emergency procedures.</p> <p>2.6 Radio communication failure emergency procedures.</p> <p>2.7 Radio telephony equipment.</p>	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing
3. Manage Passengers During Normal Operations	<p>3.1 Introduction to passenger safety.</p> <p>3.2 Passengers' safety brief.</p> <p>3.3 Passenger comfort.</p>	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing
4. Manage Passengers During an Unusual or Emergency	<p>4.1 Introduction to passenger on unusual or emergency.</p> <p>4.2 Passengers' safety briefs on during unusual and emergency.</p> <p>4.3 Types of unusual or emergencies.</p> <p>4.4 Communication to air traffic unit and operational control centre.</p> <p>4.5 Medical emergency.</p>	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing

	4.6 Passenger handling. 4.7 Aircraft Evacuation.	
5. Manage Air Cargo	5.1 Introduction to air cargo. 5.2 Types of cargo. 5.3 Classification of cargo. 5.4 Cargo calculations. 5.5 Regal requirement. 5.6 Manage documentations.	<ul style="list-style-type: none"> • 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