



**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**

## AIRPORT SECURITY

ISCED UNIT CODE: 101555112A

TVET CDACC UNIT CODE: LOG/CU/AO/CR/09/6/MA

### Relationship to Occupational Standards

This unit addresses the Unit of Competency: **Manage Airport Security**

**Duration of Unit:** 180 Hours

### Unit Description

This unit specifies the competencies required to manage airport security. It involves designing airport layout, managing people on security zone, inspecting vehicles on security zone, managing vehicles on security zone and managing control systems access.

### Summary of Learning Outcomes

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

S/No	Learning Outcomes	Duration (Hours)
1.	Design airport layout	30
2.	Manage airport environment	40
3.	Manage people on security zone	40
4	Inspect vehicles on security zone	25
5	Manage vehicles on security zone	25
6	Manage control systems access	20
	Total	<b>180</b>

### Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Design Airport Layout	1.1 Introduction to airport environment. 1.2 Instrumentation of pavement 1.3 New generation runway	<ul style="list-style-type: none"><li>• Written tests</li><li>• Observation</li><li>• Oral questions</li><li>• Third party report</li></ul>

	<p>grooving</p> <p>1.4 Construction methods</p> <p>1.5 Fuel resistance</p> <p>1.6 Navigational and lighting equipment</p> <p>1.7 Airport accessibility</p>	<ul style="list-style-type: none"> <li>• Interviewing</li> <li>• Project and report writing</li> </ul>
2. Manage Airport Environment	<p>2.1 Introduction to airport environment</p> <p>2.2 Airport location</p> <p>2.3 Environmental pollution</p> <p>2.4 Economic aspects of the airport</p> <p>2.5 Topography</p> <p>2.6 Geological factors</p> <p>2.7 World life control</p>	<ul style="list-style-type: none"> <li>• Written tests</li> <li>• Observation</li> <li>• Oral questions</li> <li>• Third party report</li> <li>• Interviewing</li> <li>• Project and report writing</li> </ul>
3. Manage People on Security Zone	<p>3.1 Meaning of terms</p> <p>3.2 Airport enforcement authority</p> <p>3.3 Airport security techniques and methods</p> <p>3.4 Notable security incidents</p> <p>3.5 Employment history verification</p> <p>3.6 Screening procedures</p> <p>3.7 Security zoning</p> <p>3.8 Restricted area pass program</p> <p>3.9 Fighting the insider treat</p> <p>3.10 Aviation security and its implications</p> <p>3.11 Security records</p>	<ul style="list-style-type: none"> <li>• Written tests</li> <li>• Observation</li> <li>• Oral questions</li> <li>• Third party report</li> <li>• Interviewing</li> <li>• Project and report writing</li> </ul>
4. Inspect Vehicles on Security Zone	<p>4.1 Meaning of terms</p> <p>4.2 Air operations area vehicle registration</p> <p>4.3 Traffic enforcement</p> <p>4.4 Security requirement</p> <p>4.5 Vulnerability assessment</p>	<ul style="list-style-type: none"> <li>• Written tests</li> <li>• Observation</li> <li>• Oral questions</li> <li>• Third party report</li> <li>• Interviewing</li> <li>• Project and report writing</li> </ul>
5. Manage Vehicles on Security Zone	<p>5.1 Best practises for safe driving</p> <p>5.2 Vehicle light gun signals</p> <p>5.3 Traffic patterns</p>	<ul style="list-style-type: none"> <li>• Written tests</li> <li>• Observation</li> <li>• Oral questions</li> </ul>

	5.4 Control of access	<ul style="list-style-type: none"> <li>• Third party report</li> <li>• Interviewing</li> <li>• Project and report writing</li> </ul>
6. Manage Control Systems Access	6.1 Introduction control systems access 6.2 Types of security control systems 6.3 Importance of security controls 6.4 Serviceability procedures 6.5 Emerging security trends	<ul style="list-style-type: none"> <li>• Written tests</li> <li>• Observation</li> <li>• Oral questions</li> <li>• Third party report</li> <li>• Interviewing</li> <li>• Project and report writing</li> </ul>

### **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