

APPLY GEOGRAPHIC INFORMATION SYSTEMS

ISCED UNIT CODE: 0532 551 16A

TVET CDACC UNIT CODE: HO/CU/HP/CC/01/5/MA

Unit duration:60 Hours

Relationship to Occupational Standards

This unit addresses the Unit of Competency: **Apply geographic Information Systems**

Unit Description

This unit covers the competencies required to apply information systems It involves Applying GIS and remote sensing techniques, performing geo-graphic communication and producing geo-maps.

Summary of Learning Outcomes

SNO	Learning Outcome	Duration (Hours)
1.	Apply GIS and remote sensing techniques	20
2.	Perform geo-graphic communication	20
3.	Generate geo-maps	20
	TOTAL	60

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcomes	Content	Suggested Assessment Methods
1. Apply GIS and remote sensing techniques	Theory 1.1 Geographic information systems 1.1.1 Definition of terms 1.1.1.1 Geographic information systems 1.1.1.2 Ecosystems	<ul style="list-style-type: none">• Written tests• Case Studies• Projects• Interviews/ Oral questions

	1.1.2 Importance of geographic information systems 1.1.3 Management of ecosystems 1.1.4 Determination of environmental governance laws	<ul style="list-style-type: none"> • Individual/group assignments
2. Perform geo-graphic communication	Theory 2.1 Geo-graphic communication 2.2.1 Definition of Geo-graphic communication 2.2.2 Importance of geo-graphic communication 2.3 Development of digital maps 2.4 Generation of graphs 2.5 Generation of digital models	<ul style="list-style-type: none"> • Written tests • Case Studies • Projects • Interviews/ Oral questions • Individual/group assignments
3 Generate geo-maps	Theory 3.2 Geo-maps 3.2.1 Definition of geo-maps 3.2.2 Importance of geo-maps 3.3 Maps projected 3.3.1 UTM (Universal Transverse Mercator) 3.3.2 UPS (Universal Polar Stereographic) 3.4 Coordinate reference systems 3.4.1 Geographical coordinates 3.4.2 Projected Coordinate system	<ul style="list-style-type: none"> • Written tests • Case Studies • Projects • Interviews/ Oral questions • Individual/group assignments

Suggested Methods of Instruction

- Role playing

- Group discussion
- Direct instruction

Recommended Resources for 25 Trainees

- 15 Desktop computers/laptops
- Internet connection
- 1 Projector
- 1 whiteboard
- Rolls flip charts
- White board
- Marker pens

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