MANAGE CLIMATE CHANGE AND GLOBAL WARMING

UNIT CODE: ENV/OS/MGT/CC/04/6/A

UNIT DESCRIPTION

This unit describes the competencies required to manage climate change and global warming. It involves managing effects of climate change and global warming, applying responses, mitigation and adaptation strategies and applying international policies and interventions to climate change.

ELEMENTS These describe the key outcomes which make up workplace function.		PERFORMANCE CRITERIA These are assessable statements which specify the required level of performance for each of the elements. Bold and italicized terms are elaborated in the Range.
1.	Manage effects of climate change and global warming	 1.1 Effects of global warming and climate change are identified 1.2 Greenhouse gases emission is controlled as per SOPs. 1.3 Alternative sources of energy are identified and applied based on available resources. 1.4 Indicators of global warming are monitored.
2.	Apply responses, mitigation and adaptation strategies to climate change.	 2.1 <i>Resource efficiency mechanisms</i> for resolving climate change issues are adapted locally and internationally. 2.2 Conference of parties (COP) recommendations are applied 2.3 <i>Technologies</i> are developed and transferred internationally.
3.	Apply international policies and interventions	 3.1 Carbon trading is implemented 3.2 Policies are regulated and enforced based on UNFCC (United nations Framework on climate change) 3.3 Relationship between climate and development is analysed. 3.4 Community is sensitized.

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

Variable	Range
1. Effects of global	□ Drought
warming and climate	
change may include but	☐ Discoloration of coral reefs
not limited to:	☐ Invasive species
	☐ Diseases (cholera, malaria, sun burns, skin cancer)

©TVET CDACC 2019 48

2. Greenhouse gases may	Methane
include but not limited	CO_2
to:	CfC
	Aerosols
	Sulphur
3. Alternative sources of	Wind
energy may include but	Solar
not limited to:	Geothermal
4. Indicators may include	Rise of the sea level
but not limited to:	Melting of ice and glaciers
	Ozone layer depletion
	Decrease of snow cover
	Temperature rise
	Change of rain pattern
5. Resource efficiency	Water conservation
mechanisms may	Waste management
include but not limited	Energy conservation
to:	
6. Technologies may	Carbon florocarbons refrigerators
include but not limited	Solar lamps
to:	Electric vehicles

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

Required Skills

The individual needs to demonstrate the following skil
--

П	Creative	and	innovative
	Cicative	ana	mino van ve

- ☐ ICT skills
- ☐ Problem solving skills
- ☐ Assessing skills
- ☐ Observation skills
- ☐ Resource mobilization
- ☐ Research skills
- ☐ Interpretation skills

Required knowledge

The individual needs to demonstrate knowledge of:

©TVET CDACC 2019 49

	Technologies
	Sustainable development
	Causes, impact and adaptation of climate change
	Local and International policies on climate change
	Indigenous knowledge of regions
	Emerging issues
7	Integration of scientific perspectives

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

1.	Critical aspects	Assessment requires evidence that the candidate:		
	of Competency	1.1 Identified and managed effects of global warming and		
	1	climate change		
		1.2 Identified and applied alternative sources of energy		
		1.3 Adapted mechanisms for resolving climate change issues		
2.	Resource	The following resources should be provided:		
	Implications	2.1 Access to relevant workplace or appropriately simulated		
		environment where assessment can take place		
		2.2 Materials relevant to the proposed activity or tasks		
3.	Methods of	Competency in this unit may be assessed through:		
	Assessment	3.1 Direct Observation		
		3.2 Oral Questioning		
		3.3 Written tests		
4.	Context of	Competency may be assessed:		
	Assessment	4.1 On-the-job		
		4.2 Off-the –job		
		4.3 During Industrial attachment		
5.	Guidance	Holistic assessment with other units relevant to the industry		
	information for	sector, workplace and job role is recommended.		
	assessment			

©TVET CDACC 2019 50