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SOUTH AFRICAN QUALIFICATIONS AUTHORITY

SAQA US ID	UNIT STANDARD TITLE			
120331	Demonstrate knowledge pertaining to fires in working places			
ORIGINATOR				
SGB Occupational Health and Safety				
FIELD			SUBFIELD	
Field 09 - Health Sciences and Social Services			Preventive Health	
ABET BAND	UNIT STANDARD TYPE	PRE-2009 NQF LEVEL	NQF LEVEL	CREDITS
Undefined	Regular-Fundamental	Level 3	NQF Level 03	3
REGISTRATION STATUS		REGISTRATION START DATE	REGISTRATION END DATE	SAQA DECISION NUMBER
Reregistered		2015-07-01	2018-06-30	SAQA 10105/14
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT		
2019-06-30		2022-06-30		

In all of the tables in this document, both the pre-2009 NQF Level and the NQF Level is shown. In the text (purpose statements, qualification rules, etc), any references to NQF Levels are to the pre-2009 levels unless specifically stated otherwise.

This unit standard does not replace any other unit standard and is not replaced by any other unit standard.

PURPOSE OF THE UNIT STANDARD

Learners credited with this unit standard will be able to demonstrate knowledge of working place fires, their probable causes, how to prevent them, how they are detected and how to apply emergency fire fighting procedures.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

- Communications at NQF Level 2
- Mathematical Literacy at NQF Level 2

It is also assumed that these learners will have attained competence in the unit standard:

- "Conduct an investigation into workplace incidents" (SAQA ID 120335).

UNIT STANDARD RANGE

All the Specific Outcomes and Associated Assessment Criteria are assessed in accordance with specified requirements and - where applicable - consequences to health and safety.

Fires:

- Specified requirements include definitions, standards, procedures, and classes of fires and codes of practice.

- Symbolic signs include fire fighting equipment, fire hydrants, escape routes, alarm positions, first aid equipment, emergency telephone, refuge bay, assembly point.
- Electronic, fire patrols
- Types of fires include:
 - > Electrical
 - > Class A (solid organic materials)
 - > Class B (Liquid and liquefiable solids)
 - > Class C (gases or liquefied gases)
 - > Class D (metals, e.g. magnesium and aluminium)

Documents

Legal requirements:

Current Legislation pertaining to:

- Mines Health & Safety
- Occupational Health and Safety
- Mandatory Codes of Practice
- Fire Brigade Services

Site-specific requirements:

- Hazard Identification and Risk Assessments (HIRA)
- Mandatory Codes of Practice
- SANS documents
- Occupational Health and Safety Risk Management Programme
- Company Standards
- Managerial Instructions
- Standard Task Procedures
- List of Recorded OH&S Risks
- Risk Assessment Documentation
- Working Guides
- Equipment and Materials Specifications

Specific Outcomes and Assessment Criteria:

SPECIFIC OUTCOME 1

Demonstrate basic knowledge pertaining to fires.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

The fire tetrahedron and the role of each element in the propagation of a fire is explained.

ASSESSMENT CRITERION 2

The gases produced by working place fires are named.

ASSESSMENT CRITERION 3

Spontaneous combustion is explained.

ASSESSMENT CRITERION 4

The reasons for changes in air temperature and gas concentration during fires are explained and measured.

ASSESSMENT CRITERION 5

An effective escape strategy is explained.

ASSESSMENT CRITERION 6

The required symbolic signs and safety equipment, pertaining to fires, are explained.

SPECIFIC OUTCOME 2

Demonstrate knowledge of the causes and prevention of working place fires.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

The common causes of working place fires are described.

ASSESSMENT CRITERION 2

Precautions to be taken to prevent working place fires.

ASSESSMENT CRITERION 3

The classification of fire risks in a working area is explained.

SPECIFIC OUTCOME 3

Demonstrate knowledge of fire detection methods.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

The functions of fire detection methods/systems are explained.

ASSESSMENT CRITERION 2

The types of instruments used for fire detection are described in accordance with specified requirements.

ASSESSMENT CRITERION 3

The role of physical senses in the detection of working place fires is explained according to specified requirements.

SPECIFIC OUTCOME 4

Demonstrate knowledge pertaining to fire preparedness.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

The importance of fire fighting, escape and rescue procedures is explained.

ASSESSMENT CRITERION 2

The importance of an up to date fire and rescue plan, indicating all relevant information, is explained.

ASSESSMENT CRITERION 3

The fire extinguishing equipment to be used for different types of fires is explained and demonstrated.

ASSESSMENT CRITERION 4

The importance of regular inspection and maintenance of fire fighting equipment is explained.

ASSESSMENT CRITERION 5

The necessity for an emergency control room is explained.

ASSESSMENT CRITERION 6

The arrangement, equipment and procedures in an emergency control room are explained.

UNIT STANDARD ACCREDITATION AND MODERATION OPTIONS

- Assessment of learner achievements takes place at providers accredited by a relevant ETQA or ETQA that has a Memorandum of Understanding in place with the relevant ETQA.
- Anyone assessing a learner against this Unit Standard must be registered as an assessor with the relevant ETQA or an ETQA that has a Memorandum of Understanding with the relevant ETQA.

Critical Cross-field Outcomes (CCFO):

UNIT STANDARD CCFO IDENTIFYING

Solve problems related to fires in working places and perform basic calculations.

UNIT STANDARD CCFO WORKING

Work effectively with others as a member of a team/group/organisation/community by accepting, interpreting and delegating instructions correctly, if and when required, in a context-appropriate manner.

UNIT STANDARD CCFO ORGANISING

Organise and manage themselves and their activities responsibly and effectively by meeting specified requirements, applying correct formulae in calculations, interpret information correctly and taking appropriate action where necessary.

UNIT STANDARD CCFO COLLECTING

Collect, organise and critically evaluate information to correct for conditions, environmental factors, and limitations that can influence the interpretation of information obtained, and recommend appropriate remedial action.

UNIT STANDARD CCFO COMMUNICATING

Communicate effectively using visual, mathematics and language skills in the modes of oral and written presentations to record and report analytical results.

UNIT STANDARD CCFO SCIENCE

Use science and technology effectively and critically (showing responsibility towards the environment and health of others) to select the appropriate methods and formulae and strategies dealing with fires in working places.

UNIT STANDARD CCFO DEMONSTRATING

Demonstrate an understanding of the world as a set of related systems by taking appropriate actions based on the evaluation of test results and reporting results to relevant designated persons, confirming that a specific observation, inference, action or decision can have an interrelated effect.