



All qualifications and part qualifications registered on the National Qualifications Framework are public property. Thus the only payment that can be made for them is for service and reproduction. It is illegal to sell this material for profit. If the material is reproduced or quoted, the South African Qualifications Authority (SAQA) should be acknowledged as the source.

**SOUTH AFRICAN QUALIFICATIONS AUTHORITY
REGISTERED UNIT STANDARD:**

Perform basic fire fighting

SAQA US ID	UNIT STANDARD TITLE			
12484	Perform basic fire fighting			
ORIGINATOR		ORIGINATING PROVIDER		
SGB Manufacturing and Assembly Processes				
QUALITY ASSURING BODY				
-				
FIELD			SUBFIELD	
Field 06 - Manufacturing, Engineering and Technology			Manufacturing and Assembly	
ABET BAND	UNIT STANDARD TYPE	PRE-2009 NQF LEVEL	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	NQF Level 02	4
REGISTRATION STATUS		REGISTRATION START DATE	REGISTRATION END DATE	SAQA DECISION NUMBER
Reregistered		2012-07-01	2015-06-30	SAQA 0695/12
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT		
2016-06-30		2019-06-30		

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

The skills, values and knowledge reflected in this unit standard are required by people in the field of manufacturing and engineering.

The learning outcomes in this unit standard also contribute to the exit level outcomes required for various manufacturing and engineering qualifications.

Qualifying learners can select and use the appropriate fire fighting equipment to extinguish or control fires in the workplace.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

This unit standard has been designed as part of a progression. It is one of a series of unit standards for safety, health and environmental protection in the field of manufacturing and engineering.

UNIT STANDARD RANGE

The scope and level of this unit standard is determined by the ranges as indicated under the specific outcomes.

Specific Outcomes and Assessment Criteria:

SPECIFIC OUTCOME 1

Discuss and explain procedures for dealing with fires in the workplace

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

1. An understanding of procedures for dealing with fires in the workplace is demonstrated.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:
 - Applicable chemistry of fires
 - Methods of fire transmission
 - Types of fires
 - Selection of fire fighting procedures for particular fires
 - Prevention of fires
 - Types, uses and operation of fire fighting and safety equipment
 - Retreat procedures form fire
 - Issues to consider when monitoring fire and site
 - Handover procedures
 - Reporting and recording requirements
2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

ASSESSMENT CRITERION 2

2. Fires are contained and/or extinguished.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:
 - Applicable chemistry of fires
 - Methods of fire transmission
 - Types of fires
 - Selection of fire fighting procedures for particular fires
 - Prevention of fires
 - Types, uses and operation of fire fighting and safety equipment
 - Retreat procedures form fire
 - Issues to consider when monitoring fire and site
 - Handover procedures
 - Reporting and recording requirements
2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

ASSESSMENT CRITERION 3

3. The fire and/or the site are handed over to the appropriate personnel.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:
 - Applicable chemistry of fires
 - Methods of fire transmission
 - Types of fires
 - Selection of fire fighting procedures for particular fires
 - Prevention of fires
 - Types, uses and operation of fire fighting and safety equipment

- Retreat procedures form fire
 - Issues to consider when monitoring fire and site
 - Handover procedures
 - Reporting and recording requirements
2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

ASSESSMENT CRITERION 4

4. Reports on status of fire and equipment are completed.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:

- Applicable chemistry of fires
- Methods of fire transmission
- Types of fires
- Selection of fire fighting procedures for particular fires
- Prevention of fires
- Types, uses and operation of fire fighting and safety equipment
- Retreat procedures form fire
- Issues to consider when monitoring fire and site
- Handover procedures
- Reporting and recording requirements

2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

SPECIFIC OUTCOME 2

Identify the type of fire, its context and select the appropriate fire fighting procedure

OUTCOME RANGE

Types of fires include organic materials/fibre materials, flammable liquids and gases, live electrical equipment, combustible metal fires.

Fire contexts include the nature of the area where the fire is, adjacent hazards, structural materials.

Methods of fire transmission include conduction, induction, radiation.

Combustible hazards include combustible materials and temperatures, compressed containers, electrical equipment, structure and layout of site.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

1. An understanding of procedures for dealing with fires in the workplace is demonstrated.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:

- Applicable chemistry of fires
- Methods of fire transmission
- Types of fires
- Selection of fire fighting procedures for particular fires
- Prevention of fires
- Types, uses and operation of fire fighting and safety equipment
- Retreat procedures form fire
- Issues to consider when monitoring fire and site
- Handover procedures
- Reporting and recording requirements

2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

ASSESSMENT CRITERION 2

2. Fires are contained and/or extinguished.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:

- Applicable chemistry of fires
- Methods of fire transmission
- Types of fires
- Selection of fire fighting procedures for particular fires
- Prevention of fires
- Types, uses and operation of fire fighting and safety equipment
- Retreat procedures form fire
- Issues to consider when monitoring fire and site
- Handover procedures
- Reporting and recording requirements

2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

ASSESSMENT CRITERION 3

3. The fire and/or the site are handed over to the appropriate personnel.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:

- Applicable chemistry of fires
- Methods of fire transmission
- Types of fires
- Selection of fire fighting procedures for particular fires
- Prevention of fires
- Types, uses and operation of fire fighting and safety equipment
- Retreat procedures form fire
- Issues to consider when monitoring fire and site
- Handover procedures
- Reporting and recording requirements

2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

ASSESSMENT CRITERION 4

4. Reports on status of fire and equipment are completed.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:

- Applicable chemistry of fires
- Methods of fire transmission
- Types of fires
- Selection of fire fighting procedures for particular fires
- Prevention of fires
- Types, uses and operation of fire fighting and safety equipment

- Retreat procedures form fire
 - Issues to consider when monitoring fire and site
 - Handover procedures
 - Reporting and recording requirements
2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

SPECIFIC OUTCOME 3

Identify, select and check appropriate fire fighting and safety equipment

OUTCOME RANGE

Fire fighting equipment includes hoses, extinguishers and buckets.

Safety equipment includes breathing apparatus, fire blankets, protective clothing for fire fights, heat shields.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

1. An understanding of procedures for dealing with fires in the workplace is demonstrated.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:

- Applicable chemistry of fires
- Methods of fire transmission
- Types of fires
- Selection of fire fighting procedures for particular fires
- Prevention of fires
- Types, uses and operation of fire fighting and safety equipment
- Retreat procedures form fire
- Issues to consider when monitoring fire and site
- Handover procedures
- Reporting and recording requirements

2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

ASSESSMENT CRITERION 2

2. Fires are contained and/or extinguished.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:

- Applicable chemistry of fires
- Methods of fire transmission
- Types of fires
- Selection of fire fighting procedures for particular fires
- Prevention of fires
- Types, uses and operation of fire fighting and safety equipment
- Retreat procedures form fire
- Issues to consider when monitoring fire and site
- Handover procedures
- Reporting and recording requirements

2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

ASSESSMENT CRITERION 3

3. The fire and/or the site are handed over to the appropriate personnel.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:
 - Applicable chemistry of fires
 - Methods of fire transmission
 - Types of fires
 - Selection of fire fighting procedures for particular fires
 - Prevention of fires
 - Types, uses and operation of fire fighting and safety equipment
 - Retreat procedures form fire
 - Issues to consider when monitoring fire and site
 - Handover procedures
 - Reporting and recording requirements
2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

ASSESSMENT CRITERION 4

4. Reports on status of fire and equipment are completed.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:
 - Applicable chemistry of fires
 - Methods of fire transmission
 - Types of fires
 - Selection of fire fighting procedures for particular fires
 - Prevention of fires
 - Types, uses and operation of fire fighting and safety equipment
 - Retreat procedures form fire
 - Issues to consider when monitoring fire and site
 - Handover procedures
 - Reporting and recording requirements
2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

SPECIFIC OUTCOME 4

Fight containable/extinguishable fires

OUTCOME NOTES

- Monitor and respond to changes in the fire.

OUTCOME RANGE

Changes in a fire include changes in wind direction, backdraft, ventilation, release of hazardous substances, radiation, or as a result of incorrect application of fire fighting procedures.

Fire monitoring issues include status of fire, status of fire fighting equipment, controlling access, structural damage and equipment retrieval, fire fighting casualties.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

1. An understanding of procedures for dealing with fires in the workplace is demonstrated.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed

2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:

- Applicable chemistry of fires
- Methods of fire transmission
- Types of fires
- Selection of fire fighting procedures for particular fires
- Prevention of fires
- Types, uses and operation of fire fighting and safety equipment
- Retreat procedures form fire
- Issues to consider when monitoring fire and site
- Handover procedures
- Reporting and recording requirements

2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

ASSESSMENT CRITERION 2

2. Fires are contained and/or extinguished.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:

- Applicable chemistry of fires
- Methods of fire transmission
- Types of fires
- Selection of fire fighting procedures for particular fires
- Prevention of fires
- Types, uses and operation of fire fighting and safety equipment
- Retreat procedures form fire
- Issues to consider when monitoring fire and site
- Handover procedures
- Reporting and recording requirements

2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

ASSESSMENT CRITERION 3

3. The fire and/or the site are handed over to the appropriate personnel.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:

- Applicable chemistry of fires
- Methods of fire transmission
- Types of fires
- Selection of fire fighting procedures for particular fires
- Prevention of fires
- Types, uses and operation of fire fighting and safety equipment
- Retreat procedures form fire
- Issues to consider when monitoring fire and site
- Handover procedures
- Reporting and recording requirements

2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

ASSESSMENT CRITERION 4

4. Reports on status of fire and equipment are completed.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:

- Applicable chemistry of fires
- Methods of fire transmission
- Types of fires
- Selection of fire fighting procedures for particular fires
- Prevention of fires
- Types, uses and operation of fire fighting and safety equipment
- Retreat procedures form fire
- Issues to consider when monitoring fire and site
- Handover procedures
- Reporting and recording requirements

2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

SPECIFIC OUTCOME 5

Retreat from fire site and hand over to appropriate personnel

ASSESSMENT CRITERIA**ASSESSMENT CRITERION 1**

1. An understanding of procedures for dealing with fires in the workplace is demonstrated.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:

- < Applicable chemistry of fires
- Methods of fire transmission
- Types of fires
- Selection of fire fighting procedures for particular fires
- Prevention of fires
- Types, uses and operation of fire fighting and safety equipment
- Retreat procedures form fire
- Issues to consider when monitoring fire and site
- Handover procedures
- Reporting and recording requirements

2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

ASSESSMENT CRITERION 2

2. Fires are contained and/or extinguished.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:

- Applicable chemistry of fires

- Methods of fire transmission
 - Types of fires
 - Selection of fire fighting procedures for particular fires
 - Prevention of fires
 - Types, uses and operation of fire fighting and safety equipment
 - Retreat procedures from fire
 - Issues to consider when monitoring fire and site
 - Handover procedures
 - Reporting and recording requirements
2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

ASSESSMENT CRITERION 3

3. The fire and/or the site are handed over to the appropriate personnel.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to 'what if' and 'why' questions covering:

- Applicable chemistry of fires
- Methods of fire transmission
- Types of fires
- Selection of fire fighting procedures for particular fires
- Prevention of fires
- Types, uses and operation of fire fighting and safety equipment
- Retreat procedures from fire
- Issues to consider when monitoring fire and site
- Handover procedures
- Reporting and recording requirements

2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

ASSESSMENT CRITERION 4

4. Reports on status of fire and equipment are completed.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to 'what if' and 'why' questions covering:

- Applicable chemistry of fires
- Methods of fire transmission
- Types of fires
- Selection of fire fighting procedures for particular fires
- Prevention of fires
- Types, uses and operation of fire fighting and safety equipment
- Retreat procedures from fire
- Issues to consider when monitoring fire and site
- Handover procedures
- Reporting and recording requirements

2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task

SPECIFIC OUTCOME 6

Report/record status of fire and equipment

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

1. An understanding of procedures for dealing with fires in the workplace is demonstrated.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:
 - Applicable chemistry of fires
 - Methods of fire transmission
 - Types of fires
 - Selection of fire fighting procedures for particular fires
 - Prevention of fires
 - Types, uses and operation of fire fighting and safety equipment
 - Retreat procedures form fire
 - Issues to consider when monitoring fire and site
 - Handover procedures
 - Reporting and recording requirements
2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task.

ASSESSMENT CRITERION 2

2. Fires are contained and/or extinguished.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:
 - Applicable chemistry of fires
 - Methods of fire transmission
 - Types of fires
 - Selection of fire fighting procedures for particular fires
 - Prevention of fires
 - Types, uses and operation of fire fighting and safety equipment
 - Retreat procedures form fire
 - Issues to consider when monitoring fire and site
 - Handover procedures
 - Reporting and recording requirements
2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task.

ASSESSMENT CRITERION 3

3. The fire and/or the site are handed over to the appropriate personnel.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:
 - Applicable chemistry of fires
 - Methods of fire transmission
 - Types of fires
 - Selection of fire fighting procedures for particular fires
 - Prevention of fires
 - Types, uses and operation of fire fighting and safety equipment
 - Retreat procedures form fire
 - Issues to consider when monitoring fire and site
 - Handover procedures

- Reporting and recording requirements
2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task.

ASSESSMENT CRITERION 4

4. Reports on status of fire and equipment are completed.

ASSESSMENT CRITERION NOTES

Indicators

1. The nature of the fire is correctly identified and its context correctly assessed
2. Appropriate fire fighting and safety equipment is selected and checked
3. Hazards are isolated
4. Fire is approached according to procedures
5. Changes in the fire are monitored and responded to
6. Retreat from the fire site is undertaken according to appropriate retreat procedures for the type of fire

Understanding confirmed

1. Respond to `what if` and `why` questions covering:
 - Applicable chemistry of fires
 - Methods of fire transmission
 - Types of fires
 - Selection of fire fighting procedures for particular fires
 - Prevention of fires
 - Types, uses and operation of fire fighting and safety equipment
 - Retreat procedures from fire
 - Issues to consider when monitoring fire and site
 - Handover procedures
 - Reporting and recording requirements
2. Explain the implications of not adhering to sequence of activities and operations as described in the specific outcomes and making decisions inappropriate to the task.

UNIT STANDARD ACCREDITATION AND MODERATION OPTIONS

The assessment will be governed by the policies and guidelines of the relevant Education and Training Quality Assurance Body (ETQA) who has jurisdiction over this field of learning.

The assessor will be accredited and have a technical qualification in this learning area.

The learner can be assessed in the language of his/her choice although if s/he has to report incidents or conditions to some one else, s/he will be assessed on his/her ability to report in the language commonly used in the working environment.

The learner will be assessed in the workplace or by simulation, but can submit documents, projects, test results and assignments that are not produced in the workplace or by the RPL process.

The learner can be assessed against this unit standard to obtain credits or as part of an integrated assessment for a qualification.

UNIT STANDARD ESSENTIAL EMBEDDED KNOWLEDGE

1. Names & functions of:
 - Fire fighting equipment
 - Symbols on fire fighting equipment
 - Safety equipment
2. Purpose of:
 - Identifying the nature of a fire
3. Attributes, descriptions, characteristics & properties:
 - Ideal condition of fire fighting equipment
 - Factors that change the nature of a fire
4. Cause and effect, implications of:
 - Implications of using defective fire fighting equipment
 - Implications of failing to correctly detect the nature and context of a fire
5. Procedures and techniques:
 - Fire fighting methods
 - Procedures for monitoring a fire
 - Retreat procedures for all kinds of fires
 - Handover procedures
 - Recording and reporting procedures
6. Regulations, legislation, agreements, policies, standards:
 - Applicable safety, health and environmental protection legislation
 - Applicable organisational policies and procedures
7. Theory: rules, principles, laws:
 - Applicable chemistry of fire: the triangle of combustion, elimination factors, transmission or spread

8. Relationships, systems:

- Relationship between the nature and context of a fire and the fire fighting technique applied

UNIT STANDARD DEVELOPMENTAL OUTCOME

N/A

UNIT STANDARD LINKAGES

N/A

Critical Cross-field Outcomes (CCFO):**UNIT STANDARD CCFO IDENTIFYING**

Identify and solve problems:

- Related to identifying the nature and context of a fire

UNIT STANDARD CCFO WORKING

Work effectively with others:

- To fight fires

UNIT STANDARD CCFO ORGANISING

Organise and manage myself and my activities:

- To ensure that all required fire fighting equipment is at hand when needed

UNIT STANDARD CCFO COLLECTING

Collect, analyse, organise and critically evaluate information:

- Related to compiling a report on the status of the fire and fire fighting equipment

UNIT STANDARD CCFO COMMUNICATING

Communicate effectively:

- When handing over the fire and/or site to emergency personnel

UNIT STANDARD CCFO SCIENCE

Use science and technology effectively and critically:

- Apply chemistry of fire concepts

UNIT STANDARD CCFO DEMONSTRATING

Demonstrate an understanding of the world as a set of related systems:

- Explain the relationship between the nature and context of a fire and the fire fighting technique applied

QUALIFICATIONS UTILISING THIS UNIT STANDARD:

	ID	QUALIFICATION TITLE	PRE-2009 NQF LEVEL	NQF LEVEL	STATUS	END DATE	QUALITY ASSURING BODY
Core	48890	National Certificate: Chemical Liquid, Gas Storage and Transfer	Level 2	NQF Level 02	Passed the End Date - Status was "Registered"	2007-10-13	CHIETA
Core	49773	National Certificate: Construction and Maintenance of Overhead Track Equipment	Level 2	NQF Level 02	Reregistered	2015-06-30	TETA
Core	65789	National Certificate: Construction Plant Operations	Level 2	NQF Level 02	Passed the End Date - Status was "Registered"	2012-04-08	CETA
Core	49018	National Certificate: Metals Production	Level 2	NQF Level 02	Passed the End Date - Status was "Reregistered"	2008-11-26	MERSETA
					Passed the		

Core	35941	National Certificate: Pulp and paper Manufacturing	Level 2	NQF Level 02	End Date - Status was "Registered"	2007-02-11	Was FPMSETA until Last Date for Achievement
Core	49068	National Certificate: Railway Signalling: Assembly and Wiring of Equipment	Level 2	NQF Level 02	Reregistered	2015-06-30	TETA
Core	64909	National Certificate: Small Scale Mining	Level 2	NQF Level 02	Reregistered	2015-06-30	MQA
Core	60169	National Certificate: Water and Wastewater Reticulation Services	Level 2	NQF Level 02	Reregistered	2015-06-30	EWSETA
Core	65010	National Certificate: Aviation Support Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Core	49080	National Certificate: Construction: Advanced Crane Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	CETA
Core	49081	National Certificate: Construction: Advanced Plant Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	CETA
Core	64829	National Certificate: Lifting Machine Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Core	21841	National Certificate: Winding Engine Driving	Level 3	NQF Level 03	Reregistered	2015-06-30	MQA
Elective	66029	General Education and Training Certificate: Chemical Operations	Level 1	NQF Level 01	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Elective	49402	National Certificate in Steel Tube and Pipe Manufacturing (Seamless Hot-Finished OR Welded OR Cold-Formed)	Level 2	NQF Level 02	Passed the End Date - Status was "Reregistered"	2012-06-30	MERSETA
Elective	21004	National Certificate: Automotive Component Manufacturing and Assembly	Level 2	NQF Level 02	Passed the End Date - Status was "Reregistered"	2008-11-01	Was MERSETA until Last Date for Achievement
Elective	22858	National Certificate: Autotronics	Level 2	NQF Level 02	Passed the End Date - Status was "Reregistered"	2009-11-07	MERSETA until Last Date for Achievement
Elective	65129	National Certificate: Diesel Electric and Electric Fitting	Level 2	NQF Level 02	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Elective	48473	National Certificate: Electrical Engineering	Level 2	NQF Level 02	Passed the End Date - Status was "Reregistered"	2009-02-18	EWSETA until Last Date for Achievement
Elective	73313	National Certificate: Electrical Engineering	Level 2	NQF Level 02	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Elective	58860	National Certificate: Electro-Mechanical Winding	Level 2	NQF Level 02	Reregistered	2015-06-30	MERSETA
Elective	22869	National Certificate: Engineering Fabrication	Level 2	NQF Level 02	Passed the End Date - Status was "Reregistered"	2007-08-16	MERSETA
Elective	58722	National Certificate: Engineering Fabrication	Level 2	NQF Level 02	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual

Elective	49605	National Certificate: Environmental Practice	Level 2	NQF Level 02	Reregistered	2015-06-30	LG SETA
Elective	66512	National Certificate: Foundry Operations	Level 2	NQF Level 02	Reregistered	2015-06-30	MERSETA
Elective	23257	National Certificate: Industrial Rubber Manufacturing: Mixing OR Extruding OR Moulding OR Calendaring	Level 2	NQF Level 02	Passed the End Date - Status was "Reregistered"	2011-02-16	MERSETA
Elective	48695	National Certificate: Measurement, Control and Instrumentation	Level 2	NQF Level 02	Passed the End Date - Status was "Reregistered"	2009-04-08	EWSETA until Last Date for Achievement
Elective	74530	National Certificate: Measurement, Control and Instrumentation	Level 2	NQF Level 02	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Elective	59689	National Certificate: Mechanical Engineering	Level 2	NQF Level 02	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Elective	23273	National Certificate: Mechanical Engineering: Fitting	Level 2	NQF Level 02	Passed the End Date - Status was "Reregistered"	2008-06-25	MERSETA
Elective	23254	National Certificate: Mechanical Engineering: Fitting and Machining	Level 2	NQF Level 02	Passed the End Date - Status was "Reregistered"	2008-06-25	MERSETA
Elective	23277	National Certificate: Mechanical Engineering: Machining	Level 2	NQF Level 02	Passed the End Date - Status was "Reregistered"	2008-06-25	MERSETA
Elective	22770	National Certificate: Mechatronics	Level 2	NQF Level 02	Passed the End Date - Status was "Reregistered"	2009-07-29	MERSETA until Last Date for Achievement
Elective	67629	National Certificate: Mechatronics	Level 2	NQF Level 02	Reregistered	2015-06-30	MERSETA
Elective	21014	National Certificate: Metal and Engineering Manufacturing	Level 2	NQF Level 02	Passed the End Date - Status was "Reregistered"	2008-11-01	MERSETA until Last Date for Achievement
Elective	58718	National Certificate: Metals Processing	Level 2	NQF Level 02	Reregistered	2015-06-30	MERSETA
Elective	20888	National Certificate: Plastics Manufacturing	Level 2	NQF Level 02	Passed the End Date - Status was "Registered"	2005-06-12	Was MERSETA until Last Date for Achievement
Elective	49450	National Certificate: Plastics Manufacturing	Level 2	NQF Level 02	Reregistered	2015-06-30	MERSETA
Elective	36154	National Certificate: Polymer Composite Fabrication	Level 2	NQF Level 02	Reregistered	2015-06-30	MERSETA
Elective	79408	National Certificate: Polymer Compound Manufacturing	Level 2	NQF Level 02	Reregistered	2015-06-30	MERSETA
Elective	21011	National Certificate: Power and telecommunication cable manufacturing	Level 2	NQF Level 02	Reregistered	2015-06-30	MERSETA
Elective	57900	National Certificate: Printing and Manufacture of Packaging	Level 2	NQF Level 02	Reregistered	2015-06-30	FPMSETA

Elective	58781	National Certificate: Production Technology	Level 2	NQF Level 02	Reregistered	2015-06-30	MERSETA
Elective	48800	National Certificate: Quality Checking and Finishing of Manufactured Tyres	Level 2	NQF Level 02	Reregistered	2015-06-30	MERSETA
Elective	50542	National Certificate: Small Craft Construction	Level 2	NQF Level 02	Passed the End Date - Status was "Registered"	2009-08-31	MERSETA until Last Date for Achievement
Elective	24215	National Certificate: Thermoplastic Fabrication	Level 2	NQF Level 02	Reregistered	2015-06-30	MERSETA
Elective	48793	National Certificate: Tyre and Tyre Component Manufacturing	Level 2	NQF Level 02	Reregistered	2015-06-30	MERSETA
Elective	61809	National Certificate: Tyre Repair and Maintenance	Level 2	NQF Level 02	Reregistered	2015-06-30	MERSETA
Elective	24214	National Certificate: Welding Application and Practice	Level 2	NQF Level 02	Passed the End Date - Status was "Registered"	2006-12-03	MERSETA
Elective	57881	National Certificate: Welding Application and Practice	Level 2	NQF Level 02	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Elective	77003	National Certificate: Yacht and Boat Building	Level 2	NQF Level 02	Reregistered	2015-06-30	MERSETA
Elective	48794	National Certificate in Quality Checking of Tyres and Tyre Components	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Elective	22490	National Certificate: General Security Practices	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2007-11-28	Was SAS SETA until Last Date for Achievement
Elective	58577	National Certificate: General Security Practices	Level 3	NQF Level 03	Reregistered	2015-06-30	SAS SETA
Elective	23258	National Certificate: Industrial Rubber Manufacturing; Mixing OR Extruding OR Moulding OR Calendaring	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2011-02-16	MERSETA
Elective	49216	National Certificate: Pipeline Operations	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Elective	36155	National Certificate: Polymer Composite Fabrication	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Elective	79407	National Certificate: Polymer Compound Manufacturing	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Elective	50285	National Certificate: Professional Driving	Level 3	NQF Level 03	Reregistered	2015-06-30	TETA
Elective	62869	National Certificate: Rockbreaking: Surface Excavations	Level 3	NQF Level 03	Reregistered	2015-06-30	MQA
Elective	24217	National Certificate: Thermoplastic Fabrication	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Elective	48798	National Certificate: Tyre and Tyre Component Manufacturing	Level 3	NQF Level 03	Reregistered	2015-06-30	MERSETA
Elective	48795	National Certificate: Tyre Assembly	Level 3	NQF Level	Reregistered	2015-06-	MERSETA

				03		30	
Elective	57886	National Certificate: Welding Application and Practice	Level 3	NQF Level 03	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Elective	24213	National Certificate: Welding Application and Practice	Level 3	NQF Level 03	Passed the End Date - Status was "Registered"	2006-12-03	MERSETA
Elective	57712	Further Education and Training Certificate: Generic Management	Level 4	NQF Level 04	Reregistered	2015-06-30	As per Learning Programmes recorded against this Qual
Elective	23259	National Certificate: Industrial Rubber Manufacturing: Mixing OR Extruding OR Moulding OR Calendaring	Level 4	New Level Assignment Pend.	Reregistered	2015-06-30	MERSETA
Elective	36153	National Certificate: Polymer Composite Fabrication	Level 4	New Level Assignment Pend.	Reregistered	2015-06-30	MERSETA