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No. 33292

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**GOVERNMENT NOTICES**

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**SOUTH AFRICAN QUALIFICATION AUTHORITY**

No. 517

18 June 2010

**SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)**

In accordance with Regulation 24(c) of the Regulations of 28 March 1998, the Task Team for

**SOVEREIGNTY OF THE STATE**

registered by Organising Field 08 – Law, Military Science and Security, publishes the following Unit Standard for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purposes of the Unit Standard. The full Unit Standard can be accessed via the SAQA web-site at [www.saqqa.org.za](http://www.saqqa.org.za). Copies may also be obtained from the Directorate for Standards Setting and Development at the SAQA offices, SAQA House, 1067 Arcadia Street, Hatfield, Pretoria.

Comment on the Unit Standard should reach SAQA at the address ***below and no later than 19 July 2010***. All correspondence should be marked **Standards Setting – Task Team for Sovereignty of the State** and addressed to

The Director: Standards Setting and Development  
SAQA  
*Attention: Mr. E. Brown*  
Postnet Suite 248  
Private Bag X06  
Waterkloof  
0145  
or faxed to 012 – 431-5144  
e-mail: [ebrown@saqa.org.za](mailto:ebrown@saqa.org.za)



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**D. MPHUTHING**  
**ACTING DIRECTOR: STANDARDS SETTING AND DEVELOPMENT**



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Demonstrate an understanding of radio wave propagation***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
376860	Demonstrate an understanding of radio wave propagation		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
TT - Sovereignty of the State			
<b>FIELD</b>	<b>SUBFIELD</b>		
8 - Law, Military Science and Security	Sovereignty of the State		
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 5	8

New NQF Level: New Level Assignment Pending.

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

**SPECIFIC OUTCOME 1**

Interpret the properties and characteristics of the different states of matter.

**SPECIFIC OUTCOME 2**

Analyse the fundamental forces of nature to determine their impact on radio communication and transmission.

**SPECIFIC OUTCOME 3**

Illustrate the characteristics of waves, radio waves and sine waves and the way they propagate through different mediums.

**SPECIFIC OUTCOME 4**

Evaluate the impact of the different layers of earth's atmosphere on radio propagation.

**SPECIFIC OUTCOME 5**

Analyse the relationship between the units of measurement of the electromagnetic spectrum.

**SPECIFIC OUTCOME 6**

Determine the uses of different types of antennas and their applications.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

None

June 09

**TRACKING OF THE FLOW OF SUBMISSIONS FOR THE GOVERNMENT GAZETTE TO THE DIRECTOR**

Date	OF	SGB	Description	Proposed Closing Date	Comments	Recommend by Eddie	Signature for Approval for Publishing in Gov Gazette and Date
4 June 2010	1	Task Team : Forestry & Wood Technology (19 pages)	FETC: Wild Land Fire Fighting	19-Jul-10	<i>Recommended to sign by Eddie</i>	<i>[Signature]</i>	
	8	Task Team : Sovereignty of the State (2 page)	Unit Standards in Radio Wave				
<b>Gov Gazette information</b>	Gazette: PO 34126(R25) Publishing: PO 34127 (R )					<i>[Signature]</i> 14/6/10	

No. 518

18 June 2010

**SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)**

In accordance with Regulation 24(c) of the National Standards Bodies Regulations of 28 March 1998, the Task Team for

**FORESTRY AND WOOD TECHNOLOGY**

registered by Organising Field 01 – Agriculture and Nature Conservation, publishes the following Qualification and Unit Standards for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the Qualification and Unit Standards. The full Qualification and Unit Standards can be accessed via the SAQA web-site at [www.saqa.org.za](http://www.saqa.org.za). Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, SAQA House, 1067 Arcadia Street, Hatfield, Pretoria.

Comment on the Qualification and Unit Standards should reach SAQA at the address below and **no later than 19 July 2010**. All correspondence should be marked **Standards Setting – Task Team for Forestry and Wood Technology** and addressed to

The Director: Standards Setting and Development  
SAQA  
*Attention: Mr. E. Brown*  
Postnet Suite 248  
Private Bag X06  
Waterkloof  
0145  
or faxed to 012 – 431-5144  
e-mail: [ebrown@saqa.org.za](mailto:ebrown@saqa.org.za)

  
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**D. MPHUTHING**  
**ACTING DIRECTOR: STANDARDS SETTING AND DEVELOPMENT**



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**QUALIFICATION:****Further Education and Training Certificate: Wild Land Fire Fighting**

SAQA QUAL ID	QUALIFICATION TITLE		
79246	Further Education and Training Certificate: Wild Land Fire Fighting		
ORIGINATOR			PROVIDER
Task Team - Forestry and Wood Technology			
QUALIFICATION TYPE	FIELD	SUBFIELD	
Further Ed and Training Cert	1 - Agriculture and Nature Conservation	Forestry and Wood Technology	
ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUAL CLASS
Undefined	140	Level 4	Regular-Unit Stds Based

New NQF Level: NQF Level 04

***This qualification does not replace any other qualification and is not replaced by another qualification.***

**PURPOSE AND RATIONALE OF THE QUALIFICATION**

Purpose:

This Qualification is aimed at learners with work experience as wild land fire workers, who wish to become team leaders or supervisors. Included in this group are people who have been working in the fire fighting industry as general workers.

This qualification addresses the knowledge and skills needs of fire-fighting crew leaders who are required to lead fire suppression and fire control assignments. This knowledge includes the use of relevant equipment, compliance with and application of Occupational Health and Safety Regulations and the prevention of loss of life and property.

In leading their teams, crew leaders have to interpret the behaviour of fire and predict its momentum. Fire-fighting crew leaders require supervisory skills as well as the applicable technical skills as they lead a fire fighting team.

This Qualification provides the qualifying learner with the skills to:

- Lead a wild land fire fighting team safely during fire fighting operations.
- Apply health and safety regulations to prevent loss of lives and property.
- Manage technical wild land fire fighting operations.
- Apply operational supervisory skills to wild land fire fighting operations.
- Communicate effectively with team members before, during and after the event.

To achieve competence in this Qualification the learner must be able to:

- Lead a team, plan and allocate and assess the work.
- Communicate using a two-way radio system during wildfire suppression operations.
- Apply safety, health and environment protection procedures.
- Conduct basic map reading.
- Lead a strike attack force to contain or extinguish a wildfire.
- Manage a crew during wildfire suppression.

- Supervise structure protection operations in the rural urban interface.
- Manage a crew during a controlled burn.
- Coordinate controlled burning operations in accordance with a fire prevention plan.
- Demonstrate knowledge and application of various safety regulations to fires.
- Apply knowledge and understanding of fire behaviour to supervise a fire suppression team.
- Demonstrate knowledge and understanding of basic Incident Command Systems.

#### Rationale:

There is a great need for members and crew leaders of teams to fight wild land fires series Team members need advanced wild land fire technical skills at operator level, while team leaders and managers also require team supervisory skills.

Current fire fighting operators aspiring to become wild land fire fighting team leaders are catered for in this qualification. The Qualification is also aimed at small scale micro to small business operators who render fire fighting services to both Public and Private institutions. Those who stand to benefit from this Qualification are among others, previously disadvantaged persons who are currently in the field, as employees and other persons with the requisite job experience.

Accordingly, the objectives of increased access to learning opportunities are reached and the capacity to deal with wild land fire fires and related environment challenges overall, are increased.

#### **RECOGNIZE PREVIOUS LEARNING?**

Y

#### **LEARNING ASSUMED IN PLACE**

This qualification assumes that the learner is competent in Communication and Mathematical Literacy at NQF Level 3.

#### Recognition of Prior Learning:

This Qualification can be achieved wholly or in part through Recognition of Prior Learning. Whether a learner attends formal courses or acquires the required skills through informal means, the same standards apply as per the matrix of unit standards and Exit Level Outcomes.

The Qualification and the Unit Standards have been written in such a way that the learning has to be assessed in an integrated way. Assessors will assess evidence to establish what the learners know, understand and can do. Such evidence may be gathered through course related activities and/or through work related activities. In cases where candidates do not attend formal learning programs, assessors should seek work related evidence as far as possible.

Assessors should ensure that learners submitting themselves to Recognition Prior Learning are thoroughly briefed prior to assessment. Learners will be required to submit a Portfolio of Evidence in the prescribed format to be assessed for formal recognition.

#### Access to the Qualification:

Access to this Qualification is open. However, due to the physical nature of the job, it is a requirement that persons aspiring to become Wild Land Fire Fighting Team leaders should be physically fit, have advance knowledge in fire fighting and not be handicapped.

#### **QUALIFICATION RULES**

All fundamental unit standards are compulsory (56 credits).

The fundamental Component consists of the following, which is compulsory for all learners:



- Unit standards at NQF Level 4, totalling 16 credits in Mathematical Literacy.
- Unit standards at NQF Level 4, totalling 20 credits in Communication in a First South African Language.
- Unit standards at NQF Level 3, totalling 20 credits in Communication in a Second South African Language.

It is therefore compulsory for learners to do Communication in two different South African Languages, one at NQF Level 4 and the other at NQF Level 3.

Core Component:

All core unit standards are compulsory (71 credits).

Elective Component:

Learners are to complete unit standards totalling at least 13 credits from those listed as electives.

### **EXIT LEVEL OUTCOMES**

1. Lead a wild land fire fighting team safely during fire fighting operations.
2. Apply health and safety regulations to prevent loss of lives and property.
3. Manage technical wild land fire fighting operations in accordance with industry standards.
4. Apply operational supervisory skills to wild land fire fighting operation(s).
5. Communicate effectively with team members and other relevant parties before, during and after the event.

Critical Cross-Field Outcomes:

Critical Cross-Field Outcomes have been addressed by the Exit Level Outcomes, as follows:

1. Identify and solve problems:

This will be achieved when qualifying learners:

- Conduct risk assessment to hazardous areas.
- Analyse fire behaviour to determine the appropriate intervention tactic(s).
- Interpret and implement local fire plans.
- Apply safety regulations to fires in order to prevent loss of lives and property.

2. Work effectively with others as a member of a team or organisation:

This will be achieved when qualifying learners:

- Contribute to team and fire fighting operational goals.
- Adhere to operational procedures.
- Support team members in adhering to safety procedures and work roles to be carried out.
- Adhere to team onsite organisation and communication protocols.

3. Organise and manage oneself and one's activities responsibly and effectively.

This will be achieved when qualifying learners:

- Respond appropriately to risk and hazards.
- Apply work procedures appropriately to meet work requirement.
- Use maps to interpret area under fire:
  - Range: Use maps to identify safety zones, escape routes, access routes.

4. Collect, analyse, organise and critically evaluate information:

This will be achieved when qualifying learners:

- Conduct risk assessment of an area.
- Respond appropriately to risks identified.
- Apply legal and environmental standards.
- Monitor the use of equipment and protective clothing.

5. Communicate effectively by using mathematical and language skills in the modes of oral and written presentations:

This will be achieved when qualifying learners:

- Communicate reasons and objectives of the burn.
- Report injuries.
- Brief fire fighting team members about change of plan.
- Communicate with role players.

6. Use science and technology effectively and critically, showing responsibility towards the environment and health of others:

This will be achieved when qualifying learners:

- Apply health and safety regulations to prevent loss of lives and property.
- Adhere to fire fighting industry standards.
- Use and care for equipment properly.

7. Demonstrate an understanding of the world as a set of related systems by recognizing that problem solving contexts do not exist in isolation:

This will be achieved when qualifying learners:

- Provide appropriate solutions to fire fighting needs identified.
- Conduct risk assessment.
- Apply health and safety regulations to prevent loss of lives and property.
- Assist and coach team members.

#### **ASSOCIATED ASSESSMENT CRITERIA**

Associated Assessment Criteria for Exit Level Outcome 1:

- 1.1 Resources are allocated to meet the fire fighting objectives.
- 1.2 Look-outs are positioned accordingly to inform team leader of all fire related eventualities.
- 1.3 Knowledge and understanding of fire behaviour is applied when supervising a fire suppression team.
- 1.4 Controlled burn operations are coordinated to ensure attainment of objectives.

1.5 Control line is continuously monitored to avoid fire spread and re-ignition and to ensure safe and efficient operation.

1.6 Mopping up operations is carried out according to industry standards.

**Associated Assessment Criteria for Exit Level Outcome 2:**

2.1 Occupational Health and Safety Regulation are applied during fire fighting operations.

2.2 Rescue operations are conducted according to fire fighting standards to avoid loss of life and injury.

2.3 Various safety regulations applicable to fire fighters are continuously applied during fire fighting operations.

2.4 Relevant parties are advised and informed about the regulatory codes governing and or impacting on wild land fire fighting operations for compliance:

o Range: Parties include but are not limited to colleagues, team members, fire manager and the local community.

**Associated Assessment Criteria for Exit Level Outcome 3:**

3.1 Risk analysis of fire area or fire line is conducted in relation to weather conditions, topography and fuel type.

3.2 The appropriate strategy and tactic(s) to fight the fire are determined or decided upon.

3.3 Human and physical resources are deployed to ensure attainment of outcomes.

3.4 The fire fighting operation is monitored and controlled to ensure safety of lives and property.

3.5 Mopping up operations are carried out according to industry standards.

**Associated Assessment Criteria for Exit Level Outcome 4:**

4.1 Operational plans for wild land fire fighting operations are obtained and/or developed and executed.

4.2 Burning permits are obtained and confirmed to ensure compliance.

4.3 The use of physical resources is constantly monitored to ensure a safe and efficient operation.

4.4 Fire fighting team members are continuously coached and mentored to ensure optimum performance.

4.4 Operational documentation for wild land fire fighting operations is developed and used.

**Associated Assessment Criteria for Exit Level Outcome 5:**

5.1 Reasons and objectives of a burn are communicated to fire fighting team members.

5.2 Operational strategy and tactics to be used are confirmed.

5.3 Fire conditions/behaviour is communicated.

5.4 New instructions to fire fighting team members are communicated as conditions change.

5.5 Relevant parties are informed of outcomes of fire fighting operation.

***INTERNATIONAL COMPARABILITY***

The following countries were chosen using the criteria below:

- Countries with a formal Qualifications Framework, such as New Zealand.
- Countries that are leaders in the field of fire suppression and control.
- Countries with readily available information on the subject.

Overview:

The international review conducted-mainly in the developed world-demonstrates a high correlation between a country's development level and its emergency and fire management regime.

Learning programmes and qualifications for wild land or bush forest fire containment form a component of the broader emergency rescue services.

United States of America:

The United States probably has the most comprehensive national fire (including wild land fire) infrastructure training and development system, together with a competence framework. Their system represents a learning and credit system that is linked to various local government fire departments and military establishments in a co-ordinated command structure for emergency fire situations. Agencies like the United States Fire Administration (USFA), Emergency Management Institute (EMI) and the National Incident Management System (NIMS) are involved.

Each state or geographic area provides courses and learning programmes depending on their needs. For example, the Minnesota Wildfire Academy presents a wild land fire training that has the following components that are comparable to the Further Educations and Training Certificate: Wild Land Fire Fighting:

- Basic Firefighter S/13/190 L-130 36hours
- Advanced Firefighter/Squad Boss S 133 4 hours.
- Initial attack S-200 16 hours.
- Crew boss S-230 24 hours.
- Intermediate Fire Behaviour S 290 32 hours.

On the other hand, the National Inter-Agency Prevention Academy provides a basic 72 hour fire training course runs for two weeks. This includes: basic wildfire prevention, wildfire cause determination, and intermediate fire prevention training for wildfire prevention or mitigation. Included in the course are: communication skills and public appearances, press releases, off highway driving tactics, marketing plans and media relations, power line and rail road equipment inspections and driving for the fire service.

There are a number of courses at various wild land fire training sites that include:

- Incident Command System-basic, intermediate and advanced.
- Co-ordination & Incident Management Assessment.
- Unified and Area Command.
- Wild land fire prevention planning.
- Wildfire educational programs.
- Fire Effects.
- Fire behaviour.
- Fire lines.

New Zealand:

This country has a series of forestry related Qualification series on Wild land Fire Prevention that are equivalent to South Africa's run NQF Level 2-4, as follows:

- ID 0539: National Certificate in Fire and Rescue Services (Vegetation)-Level 2.
- ID 0540: National Certificate in Fire and Rescue Services (Vegetation)-Level 3.
- ID 1183-1185 &1134 National Certificate in Fire and Rescue Services (Vegetation)-Level 3-Level 6.

The Wild Land Fire stream is one of the many fire related qualification streams that include Industrial Emergency Response and Urban Fire and Rescue.

The National Diploma in Fire and Rescue Services (Vegetation Fire Fighting-Management (level 5) is a comprehensive qualification that has all the major legal, procedural and technical fire mitigation and suppression competence areas. It contains unit standards that span NQF Level 2 to Level 5.

The Qualification prepares the qualifying learner with the skills, knowledge and applications to deal with wild land fire incidents and to effectively mobilise the team for such eventualities.

#### Similarities:

There are many common areas between the Further Education and Training Certificate: Wild Land Fire Fighting and its counterparts in the countries under review under the following broad headings:

- Fire behaviour.
- Review of legislation.
- Fire lines.
- Incident command.
- Community education.
- Basic Wild Land Fire Equipment used.

#### Differences:

There do not appear to be major differences in content between the Further Educations and Training Certificate: Wild Land Fire Fighting and those reviewed. There are, however, variations in structure, learning format, orientation and depth of focus. The organisation of learning at the various sites of delivery within an overall national emergency response set up in the USA is a major difference.

#### Gaps:

There is, in South Africa, a need for a Level 5 Wildland Fire Fighting Qualification to bolster the competence profile of the Fire Fighter Crew Leader and to align it to, especially the New Zealand example. There is also the need to position and align the Further Education and Training Certificate: Wild Land Fire Fighting within a coherent qualification series for the Wild land Fire Fighting professional worker.

#### Conclusion:

Based on the above, it can be concluded that that the Further Education and Training Certificate: Wild Land Fire Fighting compares favourably with similar qualifications in other countries in terms of learning outcomes and content.

#### **ARTICULATION OPTIONS**

This qualification articulates horizontally and vertically with qualifications in a variety of general and specialist functions such as:

- Forestry.
- General Security Practices.
- Human settlement.
- Primary Response in and emergency.

The qualification articulates horizontally to:

- ID 57803: Further Education and Training Certificate: Fire Rescue Operations.
- ID 66349: Further Education and Training Certificate: General Forestry.

And vertically to:

- ID 64390: National Certificate: Emergency Services Supervision: Fire and Rescue Operations, NQF Level 5.
- ID 48855: National Certificate: Emergency Service Operations, NQF Level 5.
- National Higher Certificate: Fire Service Technology, NQF Level 5.

### **MODERATION OPTIONS**

- Anyone assessing a learner or moderating the assessment of a learner against the qualification must be registered as an assessor with the relevant Education, Training, Quality, Assurance (ETQA) Body, or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.
- Any institution offering learning that will enable the achievement of this qualification must be accredited as a provider with the relevant Education, Training, Quality, Assurance (ETQA) Body, or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.
- Assessment and moderation of assessment will be overseen by the relevant Education, Training, Quality, Assurance (ETQA) Body, or by an ETQA that has a Memorandum of Understanding with the relevant ETQA, according to the ETQA's policies and guidelines for assessment and moderation.
- Moderation must include both internal and external moderation of assessments, unless ETQA policies specify otherwise. Moderation should also encompass achievement of the competence described in the associated unit standards.
- Anyone wishing to be assessed against this qualification may apply to be assessed by any assessment agency, assessor or provider institution that is accredited by the relevant ETQA.

### **CRITERIA FOR THE REGISTRATION OF ASSESSORS**

Criteria for Registration of Assessors:

For an applicant to register as an assessor or moderator of this qualification, the applicant needs:

- To be registered as an assessor with the relevant ETQA.
- To be in possession of a relevant qualification at NQF Level 5 or higher.
- To have relevant experience.

### **NOTES**

N/A

### **UNIT STANDARDS**

	<b>ID</b>	<b>UNIT STANDARD TITLE</b>	<b>LEVEL</b>	<b>CREDITS</b>
Fundamental	119472	Accommodate audience and context needs in oral/signed communication	Level 3	5
Fundamental	119458	Analyse and respond to a variety of literary texts	Level 3	5
Fundamental	9010	Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations	Level 3	2
Fundamental	9013	Describe, apply, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	Level 3	4
Fundamental	119466	Interpret a variety of literary texts	Level 3	5
Fundamental	119457	Interpret and use information from texts	Level 3	5

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Fundamental	9012	Investigate life and work related problems using data and probabilities	Level 3	5
Fundamental	7456	Use mathematics to investigate and monitor the financial aspects of personal, business and national issues	Level 3	5
Fundamental	119470	Evaluate literary texts	Level 4	5
Fundamental	119469	Read/view, analyse and respond to a variety of texts	Level 4	5
Fundamental	119471	Use language and communication in occupational learning programmes	Level 4	5
Fundamental	119459	Write/present/sign for a wide range of contexts	Level 4	5
Core	13223	Apply safety, health and environmental protection procedures	Level 3	6
Core	376883	Communicate using a two-way radio system during wildfire suppression operations	Level 3	4
Core	376900	Conduct basic map reading	Level 3	3
Core	116714	Lead a team, plan, allocate and assess their work	Level 3	4
Core	376884	Coordinate controlled burning operations in accordance with a fire prevention plan	Level 4	8
Core	376885	Demonstrate knowledge and application of various safety regulations to fires	Level 4	8
Core	376881	Demonstrate knowledge and understanding of a basic Incident Command System	Level 4	3
Core	123232	Lead a strike attack force to contain or extinguish a wildfire	Level 4	4
Core	376886	Manage a crew during a controlled burn	Level 4	8
Core	123231	Manage a crew during wildfire suppression	Level 4	7
Core	376882	Apply knowledge and understanding of fire behaviour to supervise a fire suppression team	Level 5	8
Core	376901	Supervise structure protection operations in the rural urban interface	Level 5	8
Elective	13912	Apply knowledge of self and team in order to develop a plan to enhance team performance	Level 3	5
Elective	113909	Coach a team member in order to enhance individual performance in work environment	Level 3	5
Elective	123234	Control activities at an airstrip during aerial wildfire suppression	Level 3	2
Elective	251960	Identify and describe disaster related risks and threatening situations utilizing basic disaster management concepts and indigenous knowledge	Level 3	5
Elective	262187	Operate a chain saw from a rope and harness	Level 3	5
Elective	12455	Perform the role of a safety, health and environmental protection representative	Level 3	4
Elective	254124	Plan team work functions and complete reports	Level 3	4
Elective	13941	Apply the budget function in a business unit	Level 4	5
Elective	9506	Communicate in an assertive manner with clients and fellow workers	Level 4	4
Elective	110053	Conduct a basic community needs assessment	Level 4	12
Elective	376880	Create fire awareness among communities	Level 4	4
Elective	115224	Engage in fire safety and public education activities	Level 4	4
Elective	11473	Manage individual and team performance	Level 4	8
Elective	123244	Operate an electronic fire surveillance facility	Level 4	6
Elective	242850	Perform fire-ground operations necessary to ensure life safety, fire control, and property conservation under supervision	Level 4	12
Elective	115221	Preserve evidence for a fire cause investigation	Level 4	2
Elective	10981	Supervise work unit to achieve work unit objectives (individuals and teams)	Level 4	12
Elective	242852	Use a self-contained breathing apparatus	Level 4	4
Elective	244149	Demonstrate an understanding of forensic fire investigation	Level 5	5
Elective	120361	Monitor and make recommendations on the application of health and safety principles regarding the prevention of fires and protection systems in a working place	Level 5	6

### LEARNING PROGRAMMES RECORDED AGAINST THIS QUALIFICATION

None



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:****Create fire awareness among communities**

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
376880	Create fire awareness among communities		
<b>ORIGINATOR</b>	<b>PROVIDER</b>		
Task Team - Forestry and Wood Technology			
<b>FIELD</b>	<b>SUBFIELD</b>		
1 - Agriculture and Nature Conservation	Forestry and Wood Technology		
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 4	4

New NQF Level: NQF Level 04

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

**SPECIFIC OUTCOME 1**

Identify the need for fire awareness interventions in a local community.

**SPECIFIC OUTCOME 2**

Plan a fire awareness program for a local community.

**SPECIFIC OUTCOME 3**

Implement a fire awareness program.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>
Elective	79246	Further Education and Training Certificate: Wild Land Fire Fighting	Level 4





## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Demonstrate knowledge and understanding of a basic Incident Command System***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
376881	Demonstrate knowledge and understanding of a basic Incident Command System		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
Task Team - Forestry and Wood Technology			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Forestry and Wood Technology	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 4	3

New NQF Level: NQF Level 04

***This unit standard does not replace any other unit standard and is not replaced by another unit standard.*****SPECIFIC OUTCOME 1**

Define the positions and the functions of role players in regard to the Incident Command System (ICS) matrix.

**SPECIFIC OUTCOME 2**

Demonstrate knowledge of the positions or terms associated with the Incident Command System.

**SPECIFIC OUTCOME 3**

Describe the control functions or responsibilities and application to the Incident Command System.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>
Core	79246	Further Education and Training Certificate: Wild Land Fire Fighting	Level 4



**SOUTH AFRICAN QUALIFICATIONS AUTHORITY**

**UNIT STANDARD:**

***Apply knowledge and understanding of fire behaviour to supervise a fire suppression team***

<b>SAQA US ID</b>		<b>UNIT STANDARD TITLE</b>	
376882		Apply knowledge and understanding of fire behaviour to supervise a fire suppression team	
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
Task Team - Forestry and Wood Technology			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Forestry and Wood Technology	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 5	8

New NQF Level: NQF Level 05

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

**SPECIFIC OUTCOME 1**

Apply knowledge and understanding of fire behaviour for safe and effective fire suppression in a supervisory role.

**SPECIFIC OUTCOME 2**

Apply fire fighting tactics to effect safe and effective fire suppression.

**SPECIFIC OUTCOME 3**

Monitor fire behaviour during fire suppression process.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>
Core	79246	Further Education and Training Certificate: Wild Land Fire Fighting	Level 4



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:**

***Communicate using a two-way radio system during wildfire suppression operations***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
376883	Communicate using a two-way radio system during wildfire suppression operations		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
Task Team - Forestry and Wood Technology			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Forestry and Wood Technology	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 3	4

New NQF Level: NQF Level 03

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

**SPECIFIC OUTCOME 1**

Communicate messages in accordance with standard radio speech protocol.

**SPECIFIC OUTCOME 2**

Maintain two way radio communications equipment.

**SPECIFIC OUTCOME 3**

Establish reasons for varying signal strengths and apply corrective actions.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>
Core	79246	Further Education and Training Certificate: Wild Land Fire Fighting	Level 4



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Coordinate controlled burning operations in accordance with a fire prevention plan***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
376884	Coordinate controlled burning operations in accordance with a fire prevention plan		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
Task Team - Forestry and Wood Technology			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Forestry and Wood Technology	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 4	8

New NQF Level: NQF Level 04

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

**SPECIFIC OUTCOME 1**

Plan a controlled burn for a range purposes.

**SPECIFIC OUTCOME 2**

Co-ordinate team activities in controlled burn operations for a range of purposes.

**SPECIFIC OUTCOME 3**

Conduct post burning activities according to plan.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>
Core	79246	Further Education and Training Certificate: Wild Land Fire Fighting	Level 4



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Demonstrate knowledge and application of various safety regulations to fires***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
376885	Demonstrate knowledge and application of various safety regulations to fires		
<b>ORIGINATOR</b>	<b>PROVIDER</b>		
Task Team - Forestry and Wood Technology			
<b>FIELD</b>	<b>SUBFIELD</b>		
1 - Agriculture and Nature Conservation	Forestry and Wood Technology		
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 4	8

New NQF Level: NQF Level 04

***This unit standard does not replace any other unit standard and is not replaced by another unit standard.*****SPECIFIC OUTCOME 1**

Describe and apply the ten standard orders of fire fighting.

**SPECIFIC OUTCOME 2**

Describe and apply the eighteen watch-out situations.

**SPECIFIC OUTCOME 3**

Demonstrate knowledge and application of the concept LACES.

**SPECIFIC OUTCOME 4**

Demonstrate knowledge of extra watch-outs/fire-line safety, and other safety concerns.

**SPECIFIC OUTCOME 5**

Identify and mitigate any concerns or hazards during fire suppression operations.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>
Core	79246	Further Education and Training Certificate: Wild Land Fire Fighting	Level 4



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Manage a crew during a controlled burn***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
376886	Manage a crew during a controlled burn		
<b>ORIGINATOR</b>	<b>PROVIDER</b>		
Task Team - Forestry and Wood Technology			
<b>FIELD</b>	<b>SUBFIELD</b>		
1 - Agriculture and Nature Conservation	Forestry and Wood Technology		
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 4	8

New NQF Level: NQF Level 04

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

**SPECIFIC OUTCOME 1**

Plan for a controlled burn.

**SPECIFIC OUTCOME 2**

Implement the control burn activities in accordance with the local fire plan.

**SPECIFIC OUTCOME 3**

Mop up the fire line or burnt area to prevent fire spread and re-ignition.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>
Core	79246	Further Education and Training Certificate: Wild Land Fire Fighting	Level 4



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:****Conduct basic map reading**

SAQA US ID	UNIT STANDARD TITLE		
376900	Conduct basic map reading		
ORIGINATOR		PROVIDER	
Task Team - Forestry and Wood Technology			
FIELD	SUBFIELD		
1 - Agriculture and Nature Conservation	Forestry and Wood Technology		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	3

New NQF Level: NQF Level 03

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

**SPECIFIC OUTCOME 1**

Explain and apply basic mathematical concepts in relation to basic map reading.

**SPECIFIC OUTCOME 2**

Read and interpret different maps for wild land fire suppression and control.

**SPECIFIC OUTCOME 3**

Apply map reading skills for wild fire suppression and control.

**SPECIFIC OUTCOME 4**

Interpret fire risks from a map and explain response and/or mitigations.

**SPECIFIC OUTCOME 5**

Operate Global Positioning System (GPS) in the wild land or urban environment.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	ID	QUALIFICATION TITLE	LEVEL
Core	79246	Further Education and Training Certificate: Wild Land Fire Fighting	Level 4



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Supervise structure protection operations in the rural urban interface***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
376901	Supervise structure protection operations in the rural urban interface		
<b>ORIGINATOR</b>	<b>PROVIDER</b>		
Task Team - Forestry and Wood Technology			
<b>FIELD</b>	<b>SUBFIELD</b>		
1 - Agriculture and Nature Conservation	Forestry and Wood Technology		
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 5	8

New NQF Level: NQF Level 05

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

**SPECIFIC OUTCOME 1**

Conduct risk analysis for structure protection operations in a given setting.

**SPECIFIC OUTCOME 2**

Co-ordinate team activities in conducting structure protection operations in a rural urban interface.

**SPECIFIC OUTCOME 3**

Conduct post structure protection operations according to plan.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>
Core	79246	Further Education and Training Certificate: Wild Land Fire Fighting	Level 4