



## Learner Assessment Guide Unit Standard 3287 Suppress vegetation fires with water and with water with additives (Level 3, Credit 2, Version 3)

### Level Descriptor

Level	Process	Employing	Responsibility
3	<b>Carrying out processes that:</b> <ul style="list-style-type: none"> <li>• Require a range of well developed skills</li> <li>• Offer a significant choice of procedures</li> <li>• Are employed within a range of familiar contexts</li> </ul>	<b>Employing:</b> <ul style="list-style-type: none"> <li>• Some relevant theoretical knowledge</li> <li>• Interpretation of available information</li> <li>• Discretion and judgement</li> <li>• A range of known responses to familiar problems</li> </ul>	<b>Applied:</b> <ul style="list-style-type: none"> <li>• In directed activity with some autonomy</li> <li>• Under general supervision and quality checking</li> <li>• With significant responsibility for the quantity and quality of output</li> <li>• With possible responsibility for the output of others</li> </ul>

**Descriptors:**

Credit 2 - will require approximately 20 - 24 hours of learning, practice or experience and assessment for a person with no previous knowledge or experience.

Version 3 - This document has been prepared based on version 3 of the Unit Standard.

**Elements:**

1. Demonstrate knowledge of the types and use of waterway equipment to fight vegetation fires.
2. Demonstrate operation of a fire hose in a vegetation fire setting.
3. Relocate hose line.
4. Demonstrate safe mopping up of vegetation fires.

**Prerequisites:**

None.

**Assessment Conditions:**

Assessment against this unit standard may take place under real or practical simulated conditions.

**Resources:**

1. Assessment practical exercise scenarios provided by the assessor.
2. A selection of hose and waterway equipment used by the fire and rescue service provider. May be any of those shown in the primary resource but must include 70mm instantaneous hose, 41mm forestry hose, hose pack 41mm dividing breeching, 41mm adjustable nozzle, hydroblender or foam proportioner, foam branch, soap capsules or foam
3. Safety equipment: helmets, long sleeve shirt and trousers / fire overalls, suitable footwear.
4. Pump and water supply.

**Special Notes:**

Compliance with the providers Health and Safety policy and procedures is mandatory.

### **Assessment Brief Instructions:**

The assessor may use pre-course, on course, post course or workplace written or oral assessments as evidence towards gaining the knowledge based components of this unit. The assessor will evaluate the relevance of the evidence against the unit standard. The lists below provide an outline of the assessment components a learner should expect to encounter in achieving this unit.

This unit may be assessed in two ways:

As a theory test and a practical simulation / real fire, or

As a practical simulation / real fire with oral questions from the assessor to cover knowledge components.

**This Learner Assessment Guide is simply a guide and does not determine the sufficiency or validity of evidence the assessor must evaluate using assessment best practice criteria.**

**LEARNERS SHOULD ALWAYS REVIEW THE REQUIREMENTS CONTAINED IN THE UNIT STANDARD DOCUMENT PRIOR TO REQUESTING ASSESSMENT.**

### **Assessing Element 1: Demonstrate knowledge of the types and use of waterway equipment to fight vegetation fires**

Learner will give clear and simple explanations to identify and describe the different types of fire hose and waterway equipment and describe their use in fire fighting. Learner will demonstrate safe practices when using waterway equipment, including:

- care of packing
- safe working practices
- conserving water
- preservation of the environment

Learner will show when and how

- additives are used
- personal safety requirements when using additives
- and environmental considerations
- application of additives
- effectiveness of additives during mop-up

Usually assessed using oral questions and/or a written assessment. May be assessed using oral questions at a simulation or real fire.

### **Assessing Element 2: Demonstrate operation of a fire hose in a vegetation fire setting**

This will be a practical assessment where the learner will demonstrate: Use of fire hose:

- flaked hose (forestry pack)
- rolled hose
- and hose on the bight

Learner will:

- use a nozzle on spray and jet and explain when to use each pattern
- use of a foam nozzle

Learner will include the use of an additive such as soap or foam and describe to the assessor use of correct hand signals as required running out and connecting a replacement length of hose and tying an overhand knot at one end of the damaged length.

### **Assessing Element 3: Relocate hose line**

The learner will act in a crew operating a charged hose line and relocating it to a new position as indicated by the assessor.

Learner will demonstrate relocating uncharged hose to a new position using over the:

- shoulder
- and pineappling methods

Learner will demonstrate maintaining the safety of the nozzle operator during the relocating of the hose by moving back from the fire, supporting the hose, maintaining communication with the pump operator, reducing flow through nozzle.

### **Assessing Element 4: Demonstrate safe mopping up of vegetation fires**

This will be with:

- water and/or
- water with additives

As part of the simulation or real fire, learner will demonstrate safe practises throughout the mop-up and make-up. Learner will identify hot spots and take action to make them safe from breaking out during mop-up. The assessor will mark hot spots for learner to deal with at different levels in the fuel layers and will give oral details about the nature of the burning. Learner may be asked oral questions during this demonstration such as how hot spots are dealt with the following ways:

- deep seated
- surface and
- overhead

Learner will monitor effectiveness of water and/or additives and communicate this to the pump operator. Assessor may ask questions about this. Learner will re-commission all equipment at the end of the exercise.