
**FIRE AND RESCUE SERVICES -
STRUCTURAL AND INDUSTRIAL**
**Operate aerial appliances in emergency
situations**

level:	4
credit:	6
final date for comment:	March 2008
expiry date:	December 2009
sub-field:	Fire and Rescue Services
purpose:	People credited with this unit standard are able to: demonstrate knowledge of aerial appliances required for emergency situations; select site and prepare aerial appliances required for emergency situations; position head of aerial appliances for emergency situations; operate water and foam delivery systems required for emergency situations; maintain and use aerial appliance fixed air systems required for emergency situations; and make up aerial appliances after use and complete reports.
entry information:	Prerequisite: Unit 3267, <i>Drive fire and rescue vehicles in emergency situations</i> , or be a qualified NZFS Grade 2 driver, or demonstrate equivalent knowledge and skills.
accreditation option:	Evaluation of documentation and visit by NZQA and industry.
moderation option:	A national moderation system of moderation networks has been established by the Fire and Rescue Services Industry Training Organisation.
special notes:	<ol style="list-style-type: none">1 Compliance with the fire and rescue service provider's Health and Safety policy and procedures is mandatory.2 Assessment against this unit standard may take place under real or practical simulated conditions.

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- 3 The primary references for this unit standard are NZFS training notes and manufacturer's operating instructions. These are available from the NZFS, PO Box 2133, Wellington.
- 4 *Fire and rescue service provider's requirements or Standard Operating Procedures (SOPs)* refer to policies and procedures on safety and operation set down by each fire and rescue service employer or host organisation.

Elements and Performance Criteria

element 1

Demonstrate knowledge of aerial appliances required for emergency situations.

performance criteria

- 1.1 Technical aspects of aerial appliances are described in accordance with the primary reference.

Range: appliance specifications, operating limits, appliance controls, safety considerations.
- 1.2 Operating principles of aerial appliances are explained in accordance with the primary reference.

Range: safety considerations, SOPs, communication systems.

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element 2

Select site and prepare aerial appliances required for emergency situations.

performance criteria

2.1 Site is selected in accordance with the requirements of the fire and rescue service provider and manufacturer's specifications for ground stability and gradient.

Range: safe access - horizontal assistance, overhead obstacles.

2.2 Vehicle is stabilised using jacks in accordance with the manufacturer's instruction manual.

2.3 Appliances are set up to provide water, rescue, and observation facilities in accordance with the requirements of the fire and rescue service provider.

Range: must include (where provided) but not limited to - water tower by hose or fixed pipe, rescue lines, stretcher, means of escape.

element 3

Position head of aerial appliances for emergency situations.

performance criteria

3.1 Power take off unit is selected and engaged before operating positioning controls in accordance with the manufacturer's instruction manual.

3.2 Aerial device is manoeuvred in accordance with manufacturer's instruction manual and within safety limits specified by the fire and rescue service provider.

Range: elevate, extend, train, retract, depress.

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3.3 Aerial device is positioned from available operating points in accordance with manufacturer's instruction manual.

Range: from the appliance, from the head of the device.

3.4 Hazards are identified and communicated between the operators of the aerial device in accordance with the requirements of the fire and rescue service provider.

element 4

Operate water and foam delivery systems required for emergency situations.

Range: limitations - safety, loading;
operation - full range.

performance criteria

4.1 Water monitors are directed and adjusted in accordance with the requirements of the fire and rescue service provider.

4.2 Foam monitors are directed and adjusted in accordance with the requirements of the fire and rescue service provider.

element 5

Maintain and use aerial appliances fixed air systems required for emergency situations.

performance criteria

5.1 Breathing apparatus is worn and operated at the head of the apparatus through appliances' fixed air systems in accordance with manufacturer's instruction manual.

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5.2 Appliances' bulk air system is maintained in accordance with manufacturer's instruction manual.

Range: system - contents checked, recharged.

element 6

Make up aerial appliances after use and complete reports.

performance criteria

- 6.1 Aerial appliances are housed, and power take off unit is disengaged in accordance with manufacturer's instruction manual.
- 6.2 Aerial appliances are recommissioned for immediate use in accordance with manufacturer's instruction manual and the fire and rescue service provider's requirements
- 6.3 Reporting is completed in accordance with the requirements of the fire and rescue service provider.

Comments on this unit standard

Please contact the Fire and Rescue Services Industry Training Organisation info@frsito.org.nz if you wish to suggest changes to the content of this unit standard.

Please Note

Providers must be accredited by the Qualifications Authority or a delegated inter-institutional body before they can register credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

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Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for providers wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is covered by AMAP 0039 which can be accessed at <http://www.nzqa.govt.nz/site/framework/search.html>.