
**SPECIALIST DRIVING KNOWLEDGE
AND SKILLS**
**Develop and execute a plan for a four
wheel drive (4WD) vehicle extraction**

level:	4
credit:	5
final date for comment:	May 2008
expiry date:	December 2009
sub-field:	Driving
purpose:	<p>This unit standard is for drivers and others engaged in off-road vehicle activities.</p> <p>People credited with this unit standard are able to: describe the use and maintenance of recovery equipment; plan for the safe extraction of disabled vehicles; and safely extract the disabled vehicle in accordance with the extraction plan.</p>
entry information:	Candidates must have held a full Class 1 driver licence for a minimum of twelve months.
accreditation option:	Evaluation of documentation and visit by NZQA and industry.
moderation option:	A centrally established and directed national moderation system has been set up by the NZ Road Transport and Logistics Industry Training Organisation.
special notes:	<ol style="list-style-type: none">1 This unit standard applies to the extraction of a four wheel drive 4WD vehicle.2 During assessment, candidates must comply with all legislative requirements including: Health and Safety in Employment Act 1992 Land Transport (Driver Licensing) Rule 1999 Resource Management Act 1991 Traffic Regulations 1976 Transport Act 1962.

SPECIALIST DRIVING KNOWLEDGE AND SKILLS

Develop and execute a plan for a four wheel drive (4WD) vehicle extraction

- 3 Any new, amended, or replaced legislation, Rules, legal requirements, standards, and codes of practice affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- 4 The following unit standards are relevant to this unit standard, but are not prerequisite unit standards: Unit 17976, *Demonstrate knowledge of operating a light four wheel drive (4WD) vehicle in an off-road environment*, Unit 17977, Unit 17977, *Develop a plan for off-road light four wheel drive (4WD) driving*, and Unit 17978, *Operate a light four wheel drive (4WD) vehicle in an off-road environment*.
- 5 Definitions
disabled vehicle means a vehicle that is trapped due to the terrain or surface, and cannot be moved under its own power;
off-road means a surface other than a sealed or unsealed, formed road or track, and includes but is not limited to bush tracks, beaches, river beds and open paddocks;
recovery equipment includes but is not limited to - recovery strops, recovery ropes, shackles, snatch blocks, chains, ropes, shovels, winches, high-lift jacks, exhaust bags, timber, foliage, traction mats.

Elements and Performance Criteria

element 1

Describe the use and maintenance of vehicle recovery equipment.

performance criteria

- 1.1 Description includes the correct use of recovery equipment.

**SPECIALIST DRIVING KNOWLEDGE
AND SKILLS**
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wheel drive (4WD) vehicle extraction**

- 1.2 Description includes the care and maintenance required for equipment in accordance with manufacturer's specifications.

element 2

Plan for the safe extraction of a disabled vehicle.

performance criteria

- 2.1 Plan includes location and condition of the disabled vehicle, and the recovery vehicle where applicable.
- 2.2 Plan specifies recovery equipment suitable for the extraction.
- 2.3 Plan includes procedures to maintain safety of personnel involved with the extraction.
- Range: includes but is not limited to - potential injury, fatigue, protective safety clothing, equipment used, communications, control and briefing.
- 2.4 Plan follows an orderly sequence, is achievable, and meets legislative requirements.
- 2.5 Plan includes tension recovery calculations.
- 2.6 Plan takes into account rectification of any potential damage to the environment, recovery vehicle, immobilised vehicle, and equipment.

element 3

Safely extract a vehicle in accordance with the extraction plan.

performance criteria

- 3.1 The extraction process is managed in order to prevent injury to personnel, and damage to vehicles, equipment and environment in accordance with the extraction plan.

**SPECIALIST DRIVING KNOWLEDGE
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- 3.2 The extraction process follows an orderly sequence and is executed in a timely manner in accordance with the extraction plan.
- 3.3 Tension calculations specified by the extraction plan are employed and result in the effective extraction of the vehicle.
- 3.4 The recovery area, vehicles and equipment used in the recovery process are safely restored in accordance with the extraction plan.

Comments on this unit standard

Please contact the New Zealand Road Transport and Logistics Industry Training Organisation office@roadtrain.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.

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 0092 which can be accessed at <http://www.nzqa.govt.nz/site/framework/search.html>.