



Australian Government

DEFVH001A Conduct recovery vehicle operations in a field environment

Release 2

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Modification History

Release	TP Version	Comments
2	DEF12V2	Layout adjusted. No changes to content.
1	DEF12V1	Primary release.

Unit Descriptor

This unit covers the competency required to undertake recovery of broken down vehicles and equipment, requiring the operation of specialist recovery vehicles and equipment.

Recovery involves dispatching the recovery vehicle to an incident site, retrieving disabled equipment and moving to a place of repair.

This unit does not cover the extraction of the disabled equipment by winching techniques, which is covered by DEFPVH002A Extract disabled equipment using winching techniques in a field environment.

Application of the Unit

This unit includes the skills and knowledge to lead a small team to recover vehicles and equipment. Specialist recovery vehicles and equipment includes the operation of towing, lifting and winching equipment.

Personnel must be capable of assessing recovery situations in remote environments and tasking personnel to complete operations in isolation from supervision or support.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a Unit of Competency.

Performance Criteria describe the required performance needed to demonstrate achievement of the element. Where ***bold italicised*** text is used, further information is detailed in the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for recovery tasks	1.1 Orders and instructions are received and confirmed 1.2 Recovery vehicle and equipment are checked and prepared for deployment in accordance with workplace procedures 1.3 Resources required for operational tasks are confirmed and organised 1.4 Recovery crew is briefed on task in accordance with workplace procedures 1.5 Identified problems/shortfalls are reported to appropriate personnel in accordance with workplace procedures so corrective action can occur prior to deployment 1.6 Work health and safety (WHS) requirements and recognised safety precautions are applied throughout operation in accordance with standard procedures 1.7 Environmentally sustainable work practices are identified, assessed and implemented where feasible
2. Deploy on recovery tasks	2.1 Recovery vehicle is deployed to recovery site in accordance with workplace procedures 2.2 Liaison with disabled equipment stakeholders is conducted to ensure everyone is aware of recovery procedures
3. Recover disabled equipment	3.1 Equipment casualty faults are diagnosed, where possible, to ensure recovery actions are the most efficient and cost effective 3.2 Recovery situation is assessed in accordance with workplace procedures to determine recovery method 3.3 Safety risks associated with recovery task are assessed and measures to ensure a safe working environment are implemented in accordance with workplace procedures 3.4 Briefing of on site personnel is conducted and tasks are allocated and supervised 3.5 Recovery tasks are completed in accordance with workplace procedures 3.6 Minor problems are dealt with in accordance with workplace procedures 3.7 Major incidents outside scope of own capabilities are reported to appropriate personnel
4. Transport disabled	4.1 Disabled equipment is secured to recovery vehicle in

ELEMENT	PERFORMANCE CRITERIA
equipment	accordance with manufacturer's instructions and workplace procedures
	4.2 Stability and braking capability of recovery vehicle is tested to ensure it is safe to transport disabled equipment
	4.3 Recovery vehicle is driven to maintenance facility
	4.4 <i>Unforeseen incidents</i> are managed as they occur
5. Finalise recovery tasks	5.1 Equipment casualty is handed over to owner or recovered further in accordance with workplace procedures
	5.2 Documentation, including reports and returns, are completed in accordance with workplace procedures
	5.3 Maintenance is supervised and conducted in accordance with workplace procedures
	5.4 Faulty equipment is reported and actions are taken in accordance with workplace procedures
	5.5 Recovery crew is debriefed as required

Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit.

Required Skills

- allocate appropriate materials and personnel to tasks
- communicate effectively in the workplace
- direct, brief, coordinate and monitor personnel
- interpret instructions and directions
- operate specialist recovery vehicles and equipment
- perform basic mathematical calculations
- solve task specific problems

Required Knowledge

- basic vehicle mechanical principles
- basic engineering principles including:
 - material capabilities
 - theory of levers and pulleys
 - characteristics and capabilities of recovery vehicles and equipment
- functions and responsibilities of team members
- maintenance requirements and procedures
- organisational WHS procedures relevant to field recovery operations
- recovery methods and procedures
- reporting requirements and procedures
- safety precautions associated with tasks

Evidence Guide

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Assessment must confirm the ability to:

- take into account the characteristics of both the equipment casualty and recovery equipment when determining suitable recovery methods
- perform a lift/tow recovery of a light and a medium/heavy rigid vehicle
- perform a trailer recovery involving a medium/heavy rigid vehicle (or equivalent)

Consistency in performance

Competency should be demonstrated across a variety of situations within the workplace.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in a field environment.

Specific resources for assessment

Access is required to:

- recovery vehicle, associated equipment and crew
- actual or simulated vehicle/equipment casualties
- specific workplace operating procedures and publications

Range Statement

The Range Statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. ***Bold italicised*** wording in the Performance Criteria is detailed below.

<i>Recovery vehicle and equipment</i> may include:	• Hand tools • Lifting and recovery equipment • Material handling equipment • Personal protective equipment • Recovery vehicle variants and associated equipment • Workshop equipment
<i>Workplace procedures</i> may include:	• Australian Standards • Briefs • Duty statements • Legislative requirements • Manufacturers' handbooks, industry specifications and technical instructions • WHS regulations • Organisational policies and procedures • Procedure manuals • Relevant state/territory or federal legislation • Standard operating procedures • Written or verbal instructions
<i>Equipment casualty faults</i> may include:	• Damaged driveline • Electrical system faults • Engine/transmission faults • Fuel system faults
<i>Assessment of the recovery situation</i> may include:	• Available resources to conduct recovery • Capabilities of recovery vehicle and equipment • Environmental conditions • Faults within equipment casualty • Size and weight of equipment casualty
<i>Safety risks associated with recovery tasks</i> may include:	• breakage of cables and chains • component failure • environmental conditions • equipment failures including: • exhaust fumes • exposure to hazardous substances • fatigue • manual handling of equipment • road hazards

	• unpredictable reaction to applied force
Briefing of on site personnel may include:	• Communication procedures • Emergency procedures • Recovery method • Safety requirements
Recovery tasks may include:	• Lifting • Towing • Winching
Minor problems may include:	• Avoidable damage to equipment casualty during recovery operations • Minor malfunctions and breakages within recovery equipment • Unforeseen minor hazards
Major incidents may include:	• Major malfunctions and/or breakages within recovery vehicles or equipment • Requirements for recovering equipment casualty exceeding capabilities of recovery vehicle • Rollover or major damage to equipment casualty • Serious injuries to on site personnel
Unforeseen incidents may include:	• Flat tyre • Loose load • Loss of load • Traffic accident • Vehicle breakdown

Unit Sector(s)

Not applicable.