



Australian Government

Department of Education, Employment and Workplace Relations

PUADEFVH001A Conduct recovery vehicle operations in a field environment

Revision Number: 1

PUADEFVH001A Conduct recovery vehicle operations in a field environment

Modification History

Not applicable.

Unit Descriptor

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 PUADEFVH002A Extract disabled equipment using winching techniques in a field environment.

Application of the Unit

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

Employability Skills This unit contains employability skills.

Pre-requisite Unit/s Nil

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 Required Skills and Knowledge and/or 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 Occupational health and safety (OH&S) 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

ELEMENT**PERFORMANCE CRITERIA****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 equipment

- 4.1 Disabled equipment is secured to recovery vehicle in 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 **Unforeseen incidents** 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

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 OH&S procedures relevant to field recovery operations
- recovery methods and procedures
- reporting requirements and procedures
- safety precautions associated with tasks

Evidence Guide

EVIDENCE GUIDE

|

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

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.

Recovery vehicle and equipment may include	Hand tools Lifting and recovery equipment Material handling equipment Personal protective equipment Recovery vehicle variants and associated equipment Workshop equipment
Workplace procedures may include	Australian Standards Briefs Duty statements Legislative requirements Manufacturers' handbooks, industry specifications and technical instructions OH&S regulations Organisational policies and procedures Procedure manuals Relevant state/territory or federal legislation Standard operating procedures Written or verbal instructions
Equipment casualty faults may include	• Damaged driveline • Electrical system faults • Engine/transmission faults • Fuel system faults
Assessment of the recovery situation 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
Safety risks associated with recovery tasks may include	• Environmental conditions Equipment failures including: • breakage of cables and chains • component failure • Exhaust fumes • Exposure to hazardous substances • Fatigue • Manual handling of equipment • Road hazards

RANGE STATEMENT

Briefing of on site personnel may include	• Unpredictable reaction to applied force • 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.

Corequisite Unit/s

Co-requisite Unit/s Nil