



Australian Government

FWPCOT3326 Recover four wheel drive vehicle

Release: 2

FWPCOT3326 Recover four wheel drive vehicle

Modification History

Release	Comments
Release 2	This version released with Forest and Wood Products Training Package Version 8.0.
Release 1	This version released with Forest and Wood Products Training Package Version 7.0.

Application

This unit of competency describes the skills and knowledge required to use recovery equipment to recover four wheel drive vehicles in difficult terrain conditions.

The unit applies to individuals who recover four wheel drive vehicles in a variety of work settings and industry sectors, including forestry, agriculture, construction, tourism and energy.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

Individuals must hold a driver licence or a provisional driver licence prior to commencing this unit of competency.

Pre-requisite Unit

Nil

Unit Sector

Common Technical (COT)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Identify loads, ratings and equipment serviceability related to	1.1 Determine the Gross Vehicle Mass (GVM) and estimate the recovery load on the vehicle using a recognised formula

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
four wheel drive vehicle recovery	1.2 Identify the rating and labelling of recovery gear 1.3 Identify rated recovery points on a vehicle 1.4 Determine the appropriate equipment to be used given the GVM, estimated recovery load and the equipment rating 1.5 Determine serviceability of recovery equipment required for task
2. Plan recovery	2.1 Identify and follow work health and safety procedures, including selection and use of personal protective equipment relevant to recovery operations 2.2 Identify, assess and take actions to mitigate risks and hazards associated with recovery operations 2.3 Identify and implement workplace environmental protection procedures associated with recovery operations 2.4 Identify emergency procedures to follow in the event of accident or incident 2.5 Locate and survey site to determine recovery strategy and establishment of an exclusion zone 2.6 Inform appropriate personnel of location of vehicle to be recovered and recovery strategy
3. Perform kinetic rope or strap recovery	3.1 Establish and maintain communications with appropriate personnel during recovery operation 3.2 Establish when and by what means to start and stop the recovery 3.3 Lay out the kinetic rope/strap prior to recovery 3.4 Fit the kinetic rope/strap to an approved recovery point/device that is suitably rated for use with the strap 3.5 Demonstrate the joining of two kinetic ropes and/or straps 3.6 Identify where to place dampeners 3.7 Perform a safe recovery using the kinetic rope/strap
4. Perform winch recovery	4.1 Establish and maintain communications with appropriate personnel during recovery operation 4.2 Establish when and how to start and stop the recovery 4.3 Lay out all the equipment to be used, including the dampeners 4.4 Perform winch recovery using a single line pull 4.5 Perform winch recovery using a double line pull using a snatch

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	block or pulley ring 4.6 Perform winch recovery using a change of direction pull using a snatch block or pulley ring
5. Use other recovery tools and equipment	5.1 Use a spade for vehicle recovery 5.2 Use traction boards for vehicle recovery
6. Maintain vehicle recovery equipment	6.1 Clean, carry out operator maintenance, check serviceability and store recovery equipment after use according to manufacturer requirements 6.2 Record equipment maintenance according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Interpret basic factual information on tool and equipment labels and in manufacturer manuals
Writing	Complete workplace forms using required format, industry terminology and structure
Oral communication	Use effective verbal communication techniques to convey instructions to people in vicinity location of recovery operation
Numeracy	Apply numeric skills to check rating of recovery equipment

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3326 Recover four wheel	FWPCOT3326 Recover four wheel	Minor edits to Performance Evidence for	Equivalent

drive vehicle Release 2	drive vehicle Release 1	providing clarification	
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Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPCOT3326 Recover four wheel drive vehicle

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has:

- performed two kinetic rope and/or strap recoveries
- performed one of each of the following winch recoveries:
 - single line
 - double line
 - change of direction.

In conducting each of the above tasks, the individual has:

- estimated the recovery load using a recognised formula
- determined the Gross Vehicle Mass (GVM) of the vehicle/s in the recovery
- determined the rating of the equipment being used
- determined the most appropriate recovery strategy to be used
- assessed why the vehicle is bogged, taken action to ensure vehicle is in four wheel drive, taken action to clear obstructions from the vehicle, taken action to use traction boards where available, determined safest method of recovery if straps or winches are to be used
- determined the appropriate equipment to be used given the GVM, equipment rating and chosen strategy.

There must also be evidence that on one occasion the individual has joined two kinetic ropes and/or straps.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- safety procedures during recovery operations
- recognised formula used to estimate the recovery load and what variables apply to this formula
- reasons and procedures for establishing exclusion zone
- Gross Vehicle Mass (GVM):
 - identifying which vehicle's GVM should be used in relation to kinetic recovery
- ratings used on recovery equipment:
 - MBS (Minimum Breaking Strength) of ropes, straps and soft shackles
 - WLL (Working Load Limit) of hard shackles
 - drag chains
 - pulley blocks
 - pulley rings
 - winches (wire and/or rope)
- anchor point selection
- number, location and weighting of strap dampeners
- rated recovery points:
 - characteristics and purpose of rated recovery points
 - location of rated recovery points
 - what is and what is not a rated recovery point
- kinetic recovery:
 - kinetic recovery procedure
 - manufacturer recommendations on recovery techniques and equipment
- winches:
 - types, main components, ratings and manufacturer recommendation for use
 - effect of the layers of wrap of rope or wire on a winch drum
 - effects of a ring or snatch block on the load on a winch
 - impact of angle of rope or cable on recovery operation
 - procedures for easing the load on a winch
 - the reasons for not driving while winching
- maintenance of recovery gear:
 - straps/ropes
 - winches.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a work environment or an environment that accurately represents workplace conditions

- work environment must include varied terrains and conditions from which to recover vehicle
- resources, equipment and materials:
 - four wheel drive to recover
 - rated recovery equipment for four wheel drive vehicle
 - relevant personnel for the purposes of communicating information
 - personal protective and safety equipment required for recovering a four wheel drive vehicle
- specifications:
 - workplace safety and environmental policies and procedures applicable to the recovery of four wheel drive vehicle.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>