



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **SRODRV003B Coordinate recovery of a 4WD vehicle using advanced techniques**

**Release: 1**

## **SRODRV003B Coordinate recovery of a 4WD vehicle using advanced techniques**

### **Modification History**

Not applicable.

### **Unit Descriptor**

**This unit has been developed for the Outdoor Recreation Industry Training Package. This unit covers the use of a variety of recovery equipment and advanced skill to recover four wheel drive vehicles in difficult terrain conditions.**

### **Application of the Unit**

Not applicable.

### **Licensing/Regulatory Information**

Not applicable.

### **Pre-Requisites**

Not applicable.

### **Employability Skills Information**

Not applicable.

### **Elements and Performance Criteria Pre-Content**

Not applicable.

### **Elements and Performance Criteria**

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##### **Element**

##### **Performance Criteria**

**1 Operate in a safe manner**

1.1 Apply safe working practices at all times

1.2 Use rated *recovery equipment*

- 1.3 Define danger zones after consideration of *operating variables*
- 2 **Operate in an environmentally-friendly manner**
  - 2.1 Determine potential environmental impact of recovery
  - 2.2 Considering *operating variables* , apply strategies to reduce environmental impact during recovery
  - 2.3 Repair environmental damage, where possible
- 3 **Use a snatch strap to recover a four wheel drive vehicle up a steep incline**
  - 3.1 Survey site to identify hazards, assess risk and select suitable strategy
  - 3.2 Prepare vehicle for recovery, after identification of recovery hooks
  - 3.3 Confirm the compliance of *equipment* with ratings, where practicable
  - 3.4 Demonstrate safe recovery of a vehicle up a steep incline using a single snatch strap
  - 3.5 Complete post-recovery vehicle and *equipment* checks
- 4 **Use vehicle recovery equipment**
  - 4.1 Identify hazards associated with the use of *recovery equipment*, accurately
  - 4.2 Apply *risk management strategies* to minimise risk associated with the use of *recovery equipment*
  - 4.3 Demonstrate appropriate use of tree trunk protectors in a recovery situation
  - 4.4 Use advanced techniques to safely recover four wheel drive vehicles using *recovery equipment*
- 5 **Use a winch to recover a four wheel drive vehicle**
  - 5.1 Identify accurately hazards associated with the use of a winch
  - 5.2 Apply *risk management* strategies to minimise risk associated with the use of a winch
  - 5.3 Prepare vehicles for a winch recovery after identification of recovery hooks and confirmation of compliance of *equipment* with ratings, where practicable

- 5.4 Establish safe ground anchor points in *different terrain conditions*
  - 5.5 Demonstrate appropriate use of a snatch block to give a 2:1 advantage
  - 5.6 Check winch to ensure safe operation and adequate *maintenance*
  - 5.7 Coordinate the safe recovery of a vehicle using a winch
- 6 **Demonstrate the safe use of jacks**
- 6.1 Demonstrate safe positioning of *jacks*
  - 6.2 Demonstrate *safe operating procedures when using a jack* to lift a vehicle
  - 6.3 Demonstrate *safe operating procedures when using a jack* to prepare a vehicle for recovery
- 7 **Maintain vehicle recovery equipment**
- 7.1 Apply correctly *maintenance* procedures for recovery *equipment*
  - 7.2 Document *equipment* maintenance in accordance with enterprise procedures

## Required Skills and Knowledge

Not applicable.

## Evidence Guide

The Evidence Guide identifies the critical aspects, knowledge and skills to be demonstrated to confirm competence for this unit. This is an integral part of the assessment of competence and should be read in conjunction with the Range Statements

### Critical aspects of evidence to be considered

Assessment must confirm sufficient knowledge of advanced vehicle recovery techniques applicable in the work environment

Assessment of performance should be over a minimum of two (2) different occasions, (for example over consecutive days), covering the prescribed number of categories from the Range Statements that are applicable in the learners environment

In particular, assessment must confirm the ability to

- use different vehicle jacks in different terrains and environmental conditions
- use a winch and a snatch block (2:1) in difficult terrain utilising ground anchor points for both hard ground and soft sand
- use other types of recovery equipment (cables, tow rope, tree protectors, shackles, chains, snatch straps) in a safe and efficient manne

### Interdependent assessment of units

This unit must be assessed after attainment of competency in the following unit(s)  
SRODRV001B Drive and recover a 4WD vehicle

This unit must be assessed in conjunction with the following unit(s)

Nil

For the purpose of integrated assessment, this unit may be assessed in conjunction with the following unit(s)

SRODRV002B Drive a 4WD vehicle in difficult terrain using advanced technique

### Required knowledge and skills

Required knowledge

Techniques to use jacks and recovery equipment (steel cables, tow ropes, chains, shackles)

Factors affecting choice of recovery equipment and mode of recovery

Issues to consider when defining danger zones

Effect of suction on cable/winch capacity

Hazards and safety issues associated with the use of jacks and recovery equipment (steel cables, tow ropes, chains, shackles, winches)

Advantages/disadvantages of snatch block use in a winch recovery

Maintenance procedures

Required skills

Use of jacks and recovery equipment (steel cables, tow ropes, chains, shackles)

## Resource implications

Physical resources - assessment of this competency requires access to a four wheel drive vehicle with low range a suitable outdoor environment with difficult terrain where four wheel drive skills may be demonstrated

maintenance/repair resources

vehicle recovery equipment such as jacks, recovery straps, winch, tow ropes, chains and tree protectors

food and water resources

map(s) and compass

Human resources - assessment of this unit of competency will require human resources consistent with those outlined in the Assessment Guidelines. That is, assessors (or persons within the assessment team) must be competent in this unit

be competent, as a minimum, in the units

SRXFAD001A, SRXRIK001A and

SRXEMR001A to ensure adequate risk

management during the assessment

be current in their knowledge and

understanding of the industry through

provision of evidence of professional activity in the relevant area

have attained the mandatory competency requirements for assessors under the

Australian Quality Training Framework

(AQTF) as specified in Standard 7.3 of the

*Standards for Registered Training*

*Organisations*

## Consistency in performance

Due to issues such as the variation in terrain and possible recovery scenarios, this unit must be assessed over a minimum of two (2) different occasions, (for example over consecutive days), in order to ensure consistency of performance over the Range Statements and contexts applicable

## Context for assessment

This unit must be assessed on the job through practical demonstration or through simulation with a four wheel drive vehicle in environments where four wheel drive skills may be demonstrated

Assessment of this unit of competence will usually include observation of processes and

procedures, oral and/or written questioning on required knowledge and skills and consideration of required attitudes  
 Where performance is not directly observed and/or is required to be demonstrated over a 'period of time' and/or in a 'number of locations', any evidence should be authenticated by colleagues, supervisors, clients or other appropriate persons

**KEY  
 COMPETENCIES**

Collect, Analyse & Organise Information	Communicate Ideas & Information	Plan & Organise Activities	Work with Others & in Teams	Use Mathematical Ideas & Techniques	Solve Problems	Use Technology
3	2	3	3	2	3	2

These levels do not relate to the Australian Qualifications Framework. They relate to the seven areas of generic competency that underpin effective workplace practices. The three levels of performance (1, 2 and 3) denote the level of competency



required to  
perform the  
task:

Use routine  
approaches

Select from  
routine

approaches

Establish

new

approaches

**Collecting,  
analysing  
and**

**organising  
informatio**

**n -**

Collecting  
information

on stranded  
vehicle to

appraise

situation

and decide

on

appropriate

method of

recovery

**Communic**

**ating ideas**

**and**

**informatio**

**n - Briefing**

others on

method of

recovery

**Planning**

**and**

**organising**

**activities -**

Planning

the

resources

and

systems

required to

perform the

recovery

**Working  
with teams  
and others**

- Working  
in a group  
situation to  
attend to  
recovery

**Using  
mathemati  
cal ideas  
and  
techniques**

-  
Calculating  
effective  
angles for  
extraction

**Solving  
problems -**

- Dealing  
with a  
stranded  
vehicle

**Using  
technology**

- Using an  
air jack  
Please refer  
to the  
Assessment  
Guidelines  
for advice  
on how to  
use the Key  
Competenci  
es.

## Range Statement

### Range Statements

The Range Statements provide advice to interpret the scope and context of this unit of competence, allowing for differences between enterprises and workplaces. The Range Statements relate to the unit as a whole and helps facilitate holistic assessment. In addition, the following variables may be present for this particular unit of competency

#### RANGE STATEMENT

#### CATEGORIES

##### Different terrain conditions

[all categories experienced in geographical location]  
hard ground  
soft sand  
mud  
snow

##### Equipment

[all categories]  
steel cables  
tow rope  
chains  
tree trunk protectors  
winch  
jacks

##### Jacks

[two categories]  
Bottle jack  
Hi-lift jack  
Bull bags

##### Maintenance

[all categories]  
cleaning  
cable rolling  
greasing/oiling

##### Operating variables

[all categories]  
type of recovery equipment used, eg,  
possibility of cable or rope failure  
direction of recovery  
suitable protection  
potential for vehicle roll or fall  
effect of suction on cable/winch capacity

##### Recovery equipment

[all categories]  
steel cables  
tow ropes  
chains  
shackles

tree trunk protectors  
winch  
dynamic elastic, eg, snatch straps

**Risk management strategies**

[all categories]  
define danger zone  
safe use of equipment  
use of rated equipment where practicable  
safe operating procedures

**Safe operating procedures when using a jack**

[all categories]  
regard for personal safety  
regard for vehicle stability  
awareness of soft footing

**Unit Sector(s)**

Not applicable.