



**Australian Government**

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

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

**Release: 1**

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

### **Modification History**

Not applicable.

### **Unit Descriptor**

**This unit has been developed for the Outdoor Recreation Industry Training Package. This unit covers the advanced skills and knowledge required to use appropriate range, gear and techniques to drive a four wheel drive vehicle through and over difficult terrain.**

### **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

### Elements and Performance Criteria

Element	Performance Criteria
1 <b>1 Drive a four wheel drive vehicle in difficult terrain</b>	1.1 Engage four wheel drive and front hubs
	1.2 Survey track to identify hazards, asses risk and select a best route
	1.3 Select routes to minimise damage to the environment
	1.4 Advise passengers of any special safety precautions to be taken when traversing <i>difficult terrain</i>
	1.5 Use appropriate range, gear, speed (momentum), driving and braking technique to negotiate a range of <i>difficult terrain</i> types whilst maintaining control of vehicle at all times
	1.6 Demonstrate, where relevant, stall stop, forward/reverse key starts and hand brake starts
	1.7 Demonstrate appropriate use of handbrake
	1.8 Maintain appropriate hand positioning on steering wheel
	1.9 Check, where necessary, brakes and undercarriage after negotiating <i>difficult terrain</i>
	1.1 Perform repairs to damaged tracks, if necessary
2 <b>2 Perform maintenance and minor repairs on four wheel drive vehicles</b>	0
	1.1 Apply risk management procedures relating to blind corners and oncoming traffic, consistently
	2.1 Select/access maintenance equipment correctly, including spares and fluids, prior to departure after consideration of <i>contextual issues</i>
	2.2 Check vehicles regularly prior to and during trip, and correctly perform <i>routine maintenance/repair tasks</i>
2.3 Make vehicle performance reports to the designated person	

- 2.4 Demonstrate safe use of a jack to support a four wheel drive vehicle on uneven ground
- 2.5 Demonstrate tyre removal/replacement
- 2.6 Demonstrate puncture repair (tube and tubeless)

## **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 techniques to drive four wheel drive vehicles in difficult terrain encountered 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

- perform routine pre-departure checks
- load vehicle safely
- survey track and accurately assess risk, both day and night
- use appropriate range, gear, speed, driving and breaking technique to negotiate difficult terrain, both day and night
- apply risk management procedures whilst drivin

### 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)  
Nil

### Required knowledge and skills

Required knowledge

- Handling characteristics of four wheel drive vehicles in difficult terrain
- Four wheel driving techniques in difficult terrain
- Environmental impact of driving in difficult terrain

**Required skills**

Advanced four wheel driving techniques in difficult terrain  
Skills and attitude to reduce environmental impact

**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 as described in the Range Statements where four wheel drive skills may be demonstrated

maintenance/repair resources

map(s) and compass

food and water resources

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 gaining proficiency in handling a vehicle in difficult terrain 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**

Competency must be demonstrated 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
1	1	2	1	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  
regarding  
the  
proposed  
route of the  
journey

**Communic  
ating ideas  
and  
informatio  
n -**

Advising  
passengers  
of any  
special  
safety  
precautions  
that need to  
be taken

**Planning  
and  
organising  
activities -**  
Planning  
equipment  
to carry  
depending



upon types  
of terrain  
likely to be  
encountere  
d

**Working  
with teams  
and others**

- Travelling  
in a convoy  
with other  
vehicles

**Using  
mathemati  
cal ideas  
and  
techniques**

-  
Calculating  
suitable  
speed/gear  
for  
different  
terrains

**Solving  
problems -  
Recovering  
a stuck  
vehicle**

**Using  
technology**

- Using a  
snatch strap  
and winch  
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

#### Difficult terrain

[all categories available at geographic location]  
 long, steep inclines incorporating loose surface and a step up along the incline  
 long steep declines incorporating loose surface and a step down along the incline  
 cross slope driving involving irregular terrain  
 deep water crossings (water depth above axle, irregular bottom, offset entry and exit points)  
 bush tracks (narrow, twisting, irregular terrain)  
 irregular sandy terrain (undulating sand, range of surface conditions from soft to firm, sand hills)  
 irregular muddy terrain (including deep mud holes, ditches, irregular terrain)  
 very rough rocky ground (rock strewn creek/river bed or rocky hill trail with obstacles)  
 snow and ice  
 slippery incline/declines

#### Routine maintenance/repair tasks

[all categories]  
 change wheels in uneven terrain  
 puncture repairs  
 fluid top-up

### Unit Sector(s)

Not applicable.