

FWPCOT3325

Operate four wheel drive vehicle on unsealed roads (Release 1)



Session Plan

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Objective:

Location:

Delivery Method:

This session plan must be used to plan and guide delivery of the learning content for this unit of competency. Adequate time must be assigned to each topic and where applicable, delivery must be supported by practical demonstration, role-play or use of relevant resources and equipment. When developing this plan, trainers must factor in the needs and characteristics of learners to ensure that knowledge and skills are delivered and demonstrated in a manner than ensure that they will be retained and can be demonstrated in a range of context as applicable as per the Assessment Conditions.

Further Details: (Add as applicable)

Pre-delivery Checklist:

Check	Yes	No
Trainer meets minimum requirements as per the unit of competency.	<input type="checkbox"/>	<input type="checkbox"/>
Required resources have been planned and obtained.	<input type="checkbox"/>	<input type="checkbox"/>
Area and equipment have been inspected to ensure safety.	<input type="checkbox"/>	<input type="checkbox"/>
All personnel are appropriately dressed. E.g. suitable foot wear and PPE where required.	<input type="checkbox"/>	<input type="checkbox"/>
All personnel have been made aware of the rules and housekeeping information.	<input type="checkbox"/>	<input type="checkbox"/>
		<i>If 'No' do not proceed until issues has been rectified.</i>

Introduction:

Requirement	Day/Session	Timing	Activities	Resources
Welcome and introductions				
Timetable				
Rules				
Health and safety				
Emergency response				
Comfort and amenities				
Refreshments				
Objectives				
Additional information				

Knowledge Evidence:

Requirement	Day/Session	Timing	Activities	Resources
structural differences between conventional two wheel drive and a four wheel drive, including:				
purpose and use of front wheel hubs				
factors affecting tyre selection and pressure				
environmental protection requirements affecting four wheel drive operations				
common unsealed road surface hazards:				
loose gravel				
ruts				
loose material in centre and sides of track				
corrugations				
pre-start checks for four wheel drive vehicle				
types of communication equipment, including:				
personal location beacon (PLB)				
phone				
radio				
vehicle/personnel tracking devices				
safe operating conditions for a four wheel drive vehicle:				
interpreting weather conditions to determine suitability for driving				
selecting routes to minimise damage to the environment				
visibility				

loading of four wheel drive, including techniques to reduce overloading				
braking techniques				
cornering techniques				
types of environmental risks and hazards associated with operating a four wheel drive vehicle on unsealed roads, including:				
rocks and other unexpected obstacles				
damage to vehicle				
animals and objects in vehicle path				
slippery surfaces				
overhead tree limbs				
other vehicles				
fallen trees, limbs and logs				
flood				
poor visibility				
tyre pressure management principles for varying terrain types				
principles for effective self-recovery of vehicle via driving skills (not the use of recovery equipment such as straps or winches)				
communication channels and protocols				
techniques for travelling in convoy				
procedures for recording and reporting workplace information.				

Performance Evidence:

Requirement	Day/Session	Timing	Activities	Resources
There must be evidence that the individual has performed each of the following tasks while driving a four wheel drive vehicle on unsealed roads:				
driven three separate ascents and three separate descents less than 15 degrees. In conducting this task, the individual has:				
selected appropriate range and gearing				
used foot brake effectively to control descent speed				
used vehicle hill descent or similar function where available				
used the most appropriate wheel placement				
used on one occasion traction aids and brakes when driving ascents and descents less than 15 degrees				
performed on two occasions a forward and a reverse stop start recovery on an incline according to the type of transmission				
demonstrated on one occasion the setting of vehicle controls for operation on unsealed roads. This may include:				
the use of free wheel hubs if fitted				
selection of low range in either manual or automatic vehicles				
use of terrain selection system if fitted				
use of differential locks if fitted				

activation of traction control or terrain selection mode if fitted and where effective				
driven vehicle and operated vehicle controls and technology to avoid traction loss on unsealed roads in three of the following conditions:				
loose gravel				
ruts				
loose material in centre and sides of track				
corrugations				
mud				
rocky				
sand				
snow				
side slopes				
rutted				
water crossing				
fitted and used personal protective equipment (PPE).				

Performance Criteria:

Requirement	Day/Session	Timing	Activities	Resources
1.1 Access, interpret and apply vehicle manufacturer information relevant to operating a four wheel drive vehicle on unsealed roads				
1.2 Identify the structural and handling differences between a conventional two wheel drive vehicle and a four wheel drive vehicle				
1.3 Determine type of operation and ensure safe operating conditions				
1.4 Identify, fit and use suitable personal protective equipment				
1.5 Perform pre-start checks				
1.6 Establish and check communication with others, including convoy procedures				
1.7 Secure loads according to safety, environmental and regulatory requirements				
1.8 Research weather and topography for a planned trip on unsealed roads				
2.1 Check and change tyre pressure suitable for unsealed road according to workplace procedures				
2.2 Continually monitor the track to identify hazards, assess risks and select the best route according to safety and environmental requirements				
2.3 Identify situations where the engagement of four wheel drive is required and engage front hubs or centre differential lock where fitted				
2.4 Use range, gear, speed, driving and braking technique				

appropriate to surface conditions while maintaining control of vehicle at all times				
2.5 Check brake operation and undercarriage after operating vehicle on unsealed road conditions				
2.6 Park and shut down vehicle				
3.1 Inspect intended vehicle path before negotiation of slope				
3.2 Use appropriate range, gear, speed, driving and braking technique to negotiate a slope while maintaining control of vehicle				
3.3 Use appropriate braking methods, user applied and vehicle controlled function, where fitted, to descend a slope				
3.4 Maintain traction and minimise wheel spin				
3.5 Apply appropriate automatic and manual techniques when vehicle cannot proceed any further on a slope				
4.1 Conduct a post-trip inspection of vehicle				
4.2 Complete post-trip documentation, including maintenance and minor repairs reports				

Foundation Skills

Requirement	Day/Session	Timing	Activities	Resources
Reading: <ul style="list-style-type: none">• Read and comprehend basic factual information on four wheel drive vehicle equipment labels and in manufacturer manuals				
Writing: <ul style="list-style-type: none">• Complete workplace forms using required format, industry terminology and structure				
Oral communication: <ul style="list-style-type: none">• Use effective verbal communication techniques to convey instructions to people involved in four wheel drive operation				
Numeracy: <ul style="list-style-type: none">• Estimate time of a journey and fuel consumption				

Session Notes or Improvements:

A large, empty rectangular box with a thin black border, intended for writing session notes or improvements.