



**Australian Government**

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

# **SISOTBR303A Apply advanced off-highway motorcycling skills**

**Release: 1**

## SISOTBR303A Apply advanced off-highway motorcycling skills

### Modification History

Not Applicable

### Unit Descriptor

<p><b>Unit descriptor</b></p>	<p>This unit describes the performance outcomes, skills and knowledge required to ride an off-highway motorcycle on tracks and trails. This unit focuses on the application of advanced off-highway motorcycling skills on moderate to difficult terrain with hazards. Other related competencies, such as navigation, are defined elsewhere.</p> <p>Licensing, regulatory or certification requirements apply to this unit at the time of endorsement.</p> <p>Under State and Territory legislation, Road and Traffic Authorities apply legislation and regulatory requirements in regards to public roads and land.</p>
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### Application of the Unit

<p><b>Application of the unit</b></p>	<p>This unit applies to those working as off-highway motorcycling guides in a range of conditions, including moderate to difficult terrain with hazards.</p> <p>This unit also applies to outdoor recreation leaders working for outdoor education or adventure providers, volunteer groups, not-for-profit organisations or government agencies.</p>
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### Licensing/Regulatory Information

Refer to Unit Descriptor

## Pre-Requisites

<b>Prerequisite units</b>	<ul style="list-style-type: none"> <li>SISOTBR201A Select, set up and maintain an off-highway motorcycle.</li> </ul>

## Employability Skills Information

<b>Employability skills</b>	This unit contains employability skills.
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## Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan for the off-highway motorcycle ride.	1.1. Identify and plan <i>food and water requirements</i> according to the duration of the ride. 1.2. Select an appropriate activity site or location or route, and <i>track and trail</i> according to <i>contextual issues, relevant legislation</i> and <i>organisational policies and procedures</i> . 1.3. Access <i>relevant sources</i> to interpret detailed <i>weather and environmental information</i> and determine ride plans. 1.4. Identify potential <i>hazards</i> and <i>obstacles</i> associated with off-highway motorcycling and procedures to minimise <i>risks</i> . 1.5. Establish a suitable <i>communication system</i> to use when riding.
2. Select equipment and conduct pre start checks.	2.1. Select <i>off-highway motorcycle</i> according to relevant legislation, organisational policies and procedures and proposed off-highway motorcycling conditions. 2.2. Select suitable <i>apparel and equipment</i> and <i>additional safety attire</i> according to contextual issues. 2.3. Check that apparel and equipment fits correctly and is in good working condition. 2.4. Perform routine <i>pre-start checks</i> of off-highway motorcycle and correct any deficiency according to manufacturer's specifications and organisational policies and procedures. 2.5. Assemble and carry an adequate in-field repair kit for the activity location. 2.6. Secure and transport off-highway motorcycle, where required, according to manufacturer's specifications and organisational policies and procedures.
3. Apply off-highway motorcycling skills.	3.1. Adjust motorcycle so that controls are set up correctly for personal use in <i>moderate to difficult terrain</i> . 3.2. Adopt appropriate posture when riding to achieve efficiency and comfort. 3.3. Use <i>advanced motorcycling techniques</i> to negotiate a range of terrain types and account for changes in terrain while maintaining control of motorcycle at all times. 3.4. Survey track to identify hazards, obstacles and

ELEMENT	PERFORMANCE CRITERIA
	<p>potential risks and confirm the safest route according to relevant legislation and organisational policies and procedures.</p> <p>3.5. Select routes or lines that minimise damage to the environment and provide suitable traction.</p> <p>3.6. Apply group riding techniques and take <i>measures</i> to guard personal and <i>group safety</i>.</p> <p>3.7. Conduct running maintenance checks and repairs using correct tools and spare parts according to manufacturer's specifications and organisational policies and procedures.</p>
4. Evaluate the off-highway motorcycle ride.	<p>4.1. Evaluate <i>relevant aspects</i> of the off-highway motorcycle ride.</p> <p>4.2. Identify improvements for future off-highway motorcycling activities.</p>

## Required Skills and Knowledge

### REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

#### Required skills

- problem-solving skills to:
  - safely negotiate hazards and obstacles while riding
  - modify riding technique to account for changes in terrain and conditions,
  - conduct pre start and running maintenance checks and repairs of off-highway motorcycle
- planning and organising skills to source and allocate necessary off-highway motorcycle, apparel and equipment to enable safe riding on moderate to difficult terrain with hazards
- communication skills to interact with other motorcyclists, cyclists and motorists to make intentions clear
- first aid and emergency response skills appropriate to the location to enable initial response to emergencies and personal health care.

#### Required knowledge

- legislation and organisational policies and procedures to enable safe conduct of all off-highway motorcycling activities
- legislation and organisational policies and procedures to adhere to relevant road

**REQUIRED SKILLS AND KNOWLEDGE**

- and traffic acts
- minimal impact off-highway motorcycling codes to enable protection of the environment
  - off-highway motorcycling codes to understand motorcyclist's rights and responsibilities off the road, and maintain safety of other users
  - equipment and off-highway motorcycle types, construction features, characteristics and technology used for off-highway motorcycling and the advantages and disadvantages of the range of equipment to enable appropriate selection, use and maintenance of equipment
  - personal apparel and additional safety attire, and the design and or construction features that make it appropriate for off-highway motorcycling activities
  - maintenance and repair of off-highway motorcycling equipment to ensure prolonged life span and safety requirements
  - common communication methods used in off-highway motorcycling
  - advanced off-highway motorcycling techniques to enable safe and efficient off-highway travel in moderate to difficult terrain
  - hazards, obstacles and risks associated with off-highway motorcycling and how to negotiate these
  - weather and environmental information to ascertain possible conditions and their affect on the activity
  - emergency and first aid procedures relevant to the location to ensure risk minimisation to self and others.

## Evidence Guide

<b>EVIDENCE GUIDE</b>	
<p>The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.</p>	
<b>Overview of assessment</b>	
<b>Critical aspects for assessment and evidence required to demonstrate competency in this unit</b>	<p>Evidence of the following is essential:</p> <ul style="list-style-type: none"> <li>• applies relevant planning processes for off-highway motorcycling activities and conducts accurate routine checks and maintenance of motorcycle and equipment</li> <li>• takes measures to guard personal and group safety by identifying and negotiating obstacles, hazards and risks, and selecting apparel that is suitable to all possible weather conditions</li> <li>• evaluates and reflects on own off-highway motorcycling performance to identify strengths, weaknesses and areas that need improvement.</li> </ul>
<b>Context of and specific resources for assessment</b>	<p>Assessment must ensure participation in multiple off-highway motorcycling activities on moderate to difficult terrain to demonstrate competency and consistency of performance.</p> <p>Assessment must also include access to:</p> <ul style="list-style-type: none"> <li>• an off-highway location with a variety of moderate to difficult terrain</li> <li>• an off-highway motorcycle</li> <li>• apparel and equipment such as helmet, safe footwear, and protective clothing.</li> </ul>
<b>Method of assessment</b>	<p>A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit:</p> <ul style="list-style-type: none"> <li>• oral and or written questioning to assess knowledge of potential risks associated with off-highway motorcycling</li> <li>• observation of safe participation and demonstration of advanced off-highway motorcycling techniques over moderate to difficult terrain including maintenance checks and repairs</li> <li>• observation of dealing with hazards, obstacles and contingencies, such as motorcycle or equipment</li> </ul>

<b>EVIDENCE GUIDE</b>	
	<p>failure and change in conditions</p> <ul style="list-style-type: none"> <li>• third-party reports from a supervisor detailing performance.</li> </ul> <p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, for example:</p> <ul style="list-style-type: none"> <li>• TLIH107D Interpret road maps and navigate pre-determined routes.</li> </ul>
<b>Guidance information for assessment</b>	

## Range Statement

<b>RANGE STATEMENT</b>	
<p>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, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.</p>	
<p><b><i>Food and water requirements</i></b> may include:</p>	<ul style="list-style-type: none"> <li>• range of foods</li> <li>• perishability</li> <li>• hydration.</li> </ul>
<p><b><i>Track and trail</i></b> may include:</p>	<ul style="list-style-type: none"> <li>• private or freehold land</li> <li>• main access road</li> <li>• minor access road,</li> <li>• track</li> <li>• fire trail.</li> </ul>
<p><b><i>Contextual issues</i></b> may include:</p>	<ul style="list-style-type: none"> <li>• weather conditions</li> <li>• times</li> <li>• season</li> <li>• transport</li> <li>• location</li> <li>• trip distance and duration</li> <li>• group objectives</li> <li>• group size.</li> </ul>



<b>RANGE STATEMENT</b>	
<b><i>Relevant legislation</i></b> may include:	<ul style="list-style-type: none"> <li>• roads and traffic Acts</li> <li>• occupational health and safety</li> <li>• permits or permission for access</li> <li>• environmental regulations.</li> </ul>
<b><i>Organisational policies and procedures</i></b> may include:	<ul style="list-style-type: none"> <li>• occupational health and safety:</li> <li>• use, maintenance and storage of motorcycles and equipment</li> <li>• risk management</li> <li>• noise level requirements</li> <li>• communication protocols</li> <li>• code of ethics.</li> </ul>
<b><i>Relevant sources</i></b> may include:	<ul style="list-style-type: none"> <li>• Bureau of Meteorology</li> <li>• media</li> <li>• land managers or agencies</li> <li>• local knowledge.</li> </ul>
<b><i>Weather and environmental information</i></b> may include:	<ul style="list-style-type: none"> <li>• satellite images</li> <li>• daily and weekly forecasts</li> <li>• local meteorological conditions</li> <li>• maximum and minimum temperatures</li> <li>• event warnings</li> <li>• river levels</li> <li>• synoptic charts</li> <li>• high and low tide predictions.</li> </ul>
<b><i>Hazards</i></b> may include:	<ul style="list-style-type: none"> <li>• temperature extremes</li> <li>• slippery or unstable terrain</li> <li>• dangerous animals and insects</li> <li>• stinging trees and nettles</li> <li>• dense vegetation</li> <li>• group management hazards.</li> </ul>
<b><i>Obstacles</i></b> may include:	<ul style="list-style-type: none"> <li>• creeks and water masses</li> <li>• tree branches and logs</li> <li>• ruts</li> <li>• large bumps</li> <li>• depressions and pot holes.</li> </ul>
<b><i>Risks</i></b> may include:	<ul style="list-style-type: none"> <li>• hypothermia</li> <li>• heat exhaustion</li> <li>• injuries</li> <li>• exhaustion</li> <li>• unforeseen weather event</li> </ul>

<b>RANGE STATEMENT</b>	
	<ul style="list-style-type: none"> <li>lost party or party member</li> <li>equipment failure.</li> </ul>
<i>Communication system</i> may include:	<ul style="list-style-type: none"> <li>calls</li> <li>radio</li> <li>hand signals</li> </ul>
<i>Off-highway motorcycle</i> may include:	<ul style="list-style-type: none"> <li>off-highway motorcycles</li> <li>trailers</li> <li>farm or agriculture motorcycles.</li> </ul>
<i>Apparel and equipment</i> may include:	<ul style="list-style-type: none"> <li>helmet</li> <li>safe footwear or boots</li> <li>protective clothing</li> <li>map</li> <li>goggles</li> <li>first aid kits</li> <li>tools and spare parts or in-field repair kits.</li> </ul>
<i>Additional safety attire</i> may include:	<ul style="list-style-type: none"> <li>knee guards</li> <li>elbow guards</li> <li>kidney belt</li> <li>body armour</li> <li>armoured jacket.</li> </ul>
<i>Pre start checks</i> may include:	<ul style="list-style-type: none"> <li>tyres and wheels</li> <li>controls and cables</li> <li>lights and electrics</li> <li>oil and fuel</li> <li>chain or drive shaft</li> <li>chassis</li> <li>suspension.</li> </ul>
<i>Moderate to difficult terrain</i> may include:	<ul style="list-style-type: none"> <li>long steep inclines incorporating loose surfaces and step-ups along the incline</li> <li>long steep declines incorporating loose surfaces and step-downs along the decline</li> <li>cross slope motorcycling involving irregular terrain</li> <li>deep water crossings</li> <li>single lane unformed tracks</li> <li>irregular sandy or muddy terrain</li> <li>very rough rocky ground</li> <li>snow or ice</li> <li>large natural obstacles</li> <li>large man made obstacles.</li> </ul>

<b>RANGE STATEMENT</b>	
<b><i>Advanced motorcycling techniques</i></b> may include:	<ul style="list-style-type: none"> <li>• throttle, clutch and brake control</li> <li>• balance or weight distribution</li> <li>• standing or sitting position</li> <li>• angle of approach to various obstacles</li> <li>• take off and landing points on varied terrains and obstacles</li> <li>• reading terrain for traction variables</li> <li>• appropriate and timely gear selection</li> <li>• off-highway motorcycle setup</li> <li>• appropriate navigation skills</li> </ul>
<b><i>Measures</i></b> may include:	<ul style="list-style-type: none"> <li>• observation of traffic and other motorcyclists</li> <li>• maintenance of safe distance from other riders</li> <li>• safe falling and arrest</li> <li>• communication strategies with cyclists, motorists and other users.</li> <li>• use of appropriate speed for the terrain and conditions</li> <li>• observation of weather conditions and terrain</li> <li>• adequate clothing, food and fluid intake.</li> </ul>
<b><i>Group safety</i></b> may include:	<ul style="list-style-type: none"> <li>• speed</li> <li>• communication</li> <li>• distance from other motorcyclists</li> <li>• appropriate group riding techniques.</li> </ul>
<b><i>Relevant aspects</i></b> may include:	<ul style="list-style-type: none"> <li>• objectives</li> <li>• planning process</li> <li>• activity site</li> <li>• weather</li> <li>• equipment selection</li> <li>• clothing selection</li> <li>• food selection</li> <li>• group feedback</li> <li>• directing techniques</li> </ul>

## Unit Sector(s)

<b>Unit sector</b>	Outdoor Recreation
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## Co-requisite units

<b>Co-requisite units</b>		

## Competency field

<b>Competency field</b>	
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