



Australian Government

Department of Education, Employment and Workplace Relations

SISOTBR201A Select, set up and maintain an off-highway motorcycle

Release: 2

SISOTBR201A Select, set up and maintain an off-highway motorcycle

Modification History

Not Applicable

Unit Descriptor

This unit describes the performance outcomes, skills and knowledge required to select, set up and maintain an off-highway motorcycle, under supervision, for off-highway motorcycle riding.

Other related competencies such as riding and trip planning are defined elsewhere.

Application of the Unit

This unit applies to those working as assistant off-highway motorcycling tour guides or support staff under supervision.

This unit also applies to outdoor recreation leaders working for outdoor education or adventure providers; volunteer groups; not-for-profit organisations or government agencies.

Licensing/Regulatory Information

Licensing, regulatory or certification requirements apply to this unit at the time of endorsement.

Under State and Territory legislation, Road and Traffic Authorities apply legislation and regulatory requirements in regards to public roads and land.

Pre-Requisites

Nil

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

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.

1. Select a motorcycle for off-highway

- 1.1. Identify *sources of information* on off-highway motorcycles.
- 1.2. Identify *off-highway motorcycle options* according to *specific requirements* and select an off-highway motorcycle according to the *needs, size and proportions* of the rider.
- 1.3. Select an appropriate off-highway motorcycle dealer.

2. Set up an off-highway motorcycle.

- 2.1. Identify *aspects of setup* which affect motorcycle performance and rider efficiency.
- 2.2. Make adjustments and set up *controls* for comfort and user ease.
- 2.3. Identify the range of *accessories* available to improve performance and *rider comfort* and safety and attach required accessories.
- 2.4. Check and adjust other *off-highway motorcycle parts* to ensure correct functioning and safety according to manufacturer's recommendations.
- 2.5. Ensure motorcycle condition meets safety requirements according to *relevant legislation* and *organisational policies and procedures*.

3. Conduct routine maintenance.

- 3.1. Identify scheduled *servicing* and *regular maintenance tasks* according to manufacturer's specifications and organisational policies and procedures.
- 3.2. Identify repair *tools and spare parts* and store on motorcycle according to manufacturer's specifications and organisational policies and procedures.
- 3.3. Conduct regular maintenance and lubrication according to manufacturer's specifications.
- 3.4. Correct detected faults or refer to specialist

ELEMENT**PERFORMANCE CRITERIA**

repairers, as required.

3.5.Clean motorcycle to prevent corrosion damage.

Required Skills and Knowledge

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

Required skills

- communication skills to discuss and ask questions about off-highway motorcycle parts, tools and spare parts with instructor
- problem-solving skills to determine appropriate tools for undertaking servicing, maintenance and repairs
- planning and organising skills to ensure all necessary equipment is in good working order
- motorcycle maintenance and repair skills to check, prevent and repair common faults and deficiencies on an off-highway motorcycle.

Required knowledge

- relevant legislation and organisational policies and procedures to enable the safe conduct of all activities
- legislation and organisational policies and procedures to adhere to relevant road and traffic acts
- minimal impact motorcycling codes to enable protection of the environment
- equipment types, characteristics and technology used for off-highway motorcycling, the advantages and disadvantages of the range of equipment, and factors affecting appropriate selection of equipment
- maintenance tools and kits commonly used to repair and maintain off-highway motorcycles
- maintenance and repair of off-highway motorcycling equipment to ensure prolonged life span and safety requirements
- features of off-highway motorcycles and motorcycling equipment that provide comfort and safety
- aspects of off-highway motorcycle setup and construction features that affect performance
- adjustment of controls for maximum efficiency and rider comfort and safety
- emergency procedures and potential hazards relevant to the location to ensure risk minimisation to self and others.

Evidence Guide

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.

Overview of assessment

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Evidence of the following is essential:

- identifies off-highway motorcycle features, parts and tools correctly
- refers to appropriate sources regarding off-highway motorcycle selection to select a suitable motorcycle that meets the needs, size and proportions of the rider
- follows written and verbal instructions to accurately apply knowledge of correct off-highway motorcycle functioning and safety based on the manufacturers recommendations
- selects and safely utilises tools to repair common off-highway motorcycle deficiencies such as dirty oil and air filters and punctured tyres or refers motorcycle to be serviced as required.

Context of and specific resources for assessment

Assessment must ensure application of routine checks, maintenance and repairs that are of sufficient breadth to demonstrate competency and consistency of performance.

Assessment must also ensure access to:

- resources, such as relevant information on off-highway motorcycle selection
- off-highway motorcycles in a suitable outdoor environment that allows motorcycle repairs and maintenance to take place
- personal protective equipment
- appropriate equipment, such as off-highway motorcycle tools, repair kits and spare parts.

Method of assessment

A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit:

- oral or written questioning to assess knowledge of the application of relevant legislation and organisational policies and procedures
- observation of pre-routine safety checks of off-highway motorcycle parts and appropriate repairs made to any deficiency

- observation of safe participation and demonstration of repair and maintenance skills, such as a puncture repair
- portfolio showing evidence of research into off-highway motorcycle options.

Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, for example:

- SISOTBR202A Demonstrate basic off- highway motorcycling skills.

Range Statement

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.

Sources of information may include:

- internet
- shops
- manufacturers
- legislation
- clubs
- magazines
- manufacturer's service manuals.

Off-highway motorcycle options may include:

- all-terrain vehicles (ATVs)
- off-highway motorcycles
- trailers
- farm or agriculture motorcycles.

Specific requirements may include:

- dominant use
- cost
- maintenance
- availability
- riding conditions.

Needs, size and proportions may include:

- type of motorcycle
- terrain motorcycle is to be ridden in
- engine capacity
- motorcycle code of conduct
- height or weight of rider.

Relevant legislation may include:

- Road and Traffic Acts
- occupational health and safety
- permits or permission for access
- environmental regulations.

Organisational policies and procedures may include:

- occupational health and safety
- use and maintenance of equipment
- noise level
- emergency procedures
- code of ethics.

Aspects of setup may include:

- handlebar angle or shape and width
- angle of clutch and front brake levers
- position of clutch and front brake levers on handlebars

- free-play of levers and throttle cable barrel
 - position of rear brake and gear levers
 - suspension
 - tyre pressures
 - gearing
 - tyre selection.
- Controls*** may include:
- clutch lever
 - front brake lever
 - throttle
 - gear lever
 - rear brake lever
 - decompressor lever.
- Accessories*** may include:
- bash or skid plate
 - frame guards
 - fork guards or boots
 - extended range fuel tank
 - seat foam or cover
 - chain and sprockets
 - brake and clutch levers
 - foot pegs
 - brake pads
 - brake disc guards
 - handlebars.
- Rider comfort*** may include:
- selection of handgrips
 - selection of riding apparel
 - seat, handlebar and lever position.
- Off-highway motorcycle parts*** may include:
- wheels
 - tyres
 - brakes
 - pedals
 - footpegs
 - seat
 - levers
 - suspension
- Servicing*** may include:
- suspension
 - engine maintenance
 - bearings and nipples
 - chains and sprocket
 - oil and filters
 - cables
 - muffler silencing maintenance.

Regular maintenance tasks may include:

- fluid levels
- air cleaner
- fuel and oil filters
- lubrication
- steering system
- electrical system
- gears
- braking system
- chain and sprockets
- spoke tension
- wheel alignment and balance.

Tools and spare parts may include:

- spare tube and tyre levers
- patch kit
- tube valves
- spanner set and or shifter
- pump and or gas bottles
- spare nuts and bolts
- spare chain and links
- electrical wire
- tie wire
- screwdrivers
- spoke spanner
- cable ties.

Unit Sector(s)

Outdoor Recreation

Competency Field

Trail Bike Riding