



Australian Government

Assessment Requirements for AURBTA106 Assemble components for custom bicycles

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- assemble, adjust and test at least one custom bicycle to meet customer requirements.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of

- methods to locate and interpret information required to assemble components for custom bicycles, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to assemble components for custom bicycles, including:
 - establishing serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment
 - disposal of excess materials
 - recycling procedures
- work health and safety (WHS) requirements relating to assembling custom bicycles, including procedures for manually handling bicycles
- environmental requirements, including procedures for trapping, storing and disposing of waste grease and oils
- types of bicycles and range of components and accessories, including:
 - wheels, rims, spokes and hubs

- handlebars and headset
- forks and suspension
- saddle and seat post
- cassette, chain rim, chain and crank
- pedals
- front and rear derailleur
- bottom bracket
- brake, brake lever and brake shift
- racks, lights and other accessories
- key bicycle terminology
- biomechanical principles of cycling
- customer requirements relating to assembling components for custom bicycles, including:
 - bicycle features
 - frame materials
- techniques for measuring and/or selecting custom bicycle components, including:
 - selecting and checking personal protective equipment (PPE)
 - procedures for using bicycle sizing measuring equipment
 - design requirements of bicycle frames and wheels
 - purpose and relationships of bicycle frames, wheels, suspension, drivetrain and steering systems
 - principles of bicycle safety
 - physical attributes to consider when selecting a bicycle frame, including:
 - height
 - body shape and weight distribution
 - length of arms and legs
 - fitness, injuries and style of cycling
 - key features and materials used in bicycle frames, wheels and components
 - bicycle component specifications
 - bicycle accessories and fitting requirements
- techniques for assembling, adjusting and testing custom bicycles, including:
 - custom build procedures
 - testing and adjustment methods
 - types and use of bicycle assembly tools and equipment
 - greasing and lubrication procedures
 - fitting and adjustment procedures for the accessories and components essential to bicycle set-up, including:
 - fork trail, rake and offset
 - head tube length and angle
 - wheelbase
 - bottom bracket drop

- seat tube length and angle
- top tube length
- setback
- stem length
- saddle height
- post-assembly safety checks
- bicycle and component adjustment procedures.

Assessment Conditions

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the components for custom bicycles that they have selected and assembled, e.g. build orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- bicycle workplace or simulated workplace
- workplace instructions
- personal protective equipment (PPE) required to assemble a custom bicycle
- bicycle and component manufacturer specifications
- customer requiring a custom bicycle
- a bicycle frame and components for assembly
- bicycle sizing measuring equipment
- tools and equipment appropriate for selecting components and assembling a custom bicycle.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>