

AUR31116

CERTIFICATE III IN HEAVY COMMERCIAL VEHICLE MECHANICAL TECHNOLOGY



DURATION
Up to
48 Months



DELIVERY MODEL
Workplace

Course Description

The **AUR3116 Certificate III in Heavy Commercial Vehicle Mechanical Technology** qualification is offered as an apprenticeship pathway and provides the skills & knowledge to overhaul, service and repair the mechanical parts of road transport vehicles such as the engine, transmission (clutch, gear box and differential) and the suspension systems (springs, steering, brakes, wheels and tyres). It also includes the repair and service of cooling systems, diesel fuel systems, air conditioning, engine forced induction systems and clutch assemblies, air braking systems and final drive assemblies.

Course Fees

A student Co-Contribution fee is required in accordance with QLD Government User Choice Policy.

Course Structure

22 Core Units
14 Elective Units

Core Units

- **AURAEA002:** Follow environmental and sustainability best practice in an automotive workplace
- **AURASA002:** Follow safe working practices in an automotive workplace
- **AURETR012:** Test and repair basic electrical circuits
- **AURETR022:** Diagnose and repair vehicle dynamic control systems
- **AURETR024:** Diagnose and repair compression ignition engine management systems
- **AURETR025:** Test, charge and replace batteries and jump-start vehicles
- **AURETR029:** Diagnose and repair charging systems
- **AURETR030:** Diagnose and repair starting systems
- **AURHTB001:** Diagnose and repair heavy vehicle air braking systems
- **AURHTD002:** Diagnose and repair heavy commercial vehicle steering systems
- **AURHTD003:** Diagnose and repair heavy commercial vehicle suspension systems
- **AURHTE002:** Diagnose and repair heavy vehicle compression ignition engines
- **AURHTQ003:** Diagnose and repair heavy vehicle drive shafts
- **AURHTZ001:** Diagnose and repair heavy vehicle emission control systems
- **AURTTA004:** Carry out servicing operations
- **AURTTA006:** Inspect and service hydraulic systems
- **AURTTA018:** Carry out diagnostic procedures
- **AURTTC003:** Diagnose and repair cooling systems
- **AURTTF002:** Inspect and service diesel fuel injection systems
- **AURTTF005:** Diagnose and repair engine forced-induction systems
- **AURTTK002:** Use and maintain tools and equipment in an automotive workplace
- **AURTTQ001:** Inspect and service final drive assemblies

Elective Units

- **AURHTX001:** Diagnose and repair heavy vehicle manual transmissions
- **AURHTX003:** Diagnose and repair heavy vehicle automatic transmissions
- **AURETR044:** Diagnose and repair integrated engine and transmission management systems
- **AURHTB002:** Diagnose and repair heavy vehicle hydraulic and air over hydraulic braking systems
- **AURHTE001:** Remove and install heavy vehicle engine assemblies
- **AURHTQ002:** Diagnose and repair heavy commercial vehicle final drive assemblies
- **AURHTX004:** Diagnose and repair heavy vehicle clutch systems
- **AURTTA005:** Select and use bearings, seals, gaskets, sealants and adhesives
- **AURTTA013:** Diagnose and repair hydraulic systems
- **AURTTB001:** Inspect and service braking systems
- **AURTTB004:** Inspect and service air braking systems
- **AURTTD004:** Inspect and service suspension systems
- **AURTTE004:** Inspect and service engines
- **AURVTW003:** Carry out advanced gas metal arc welding on vehicle body sections