



Australian Government

Assessment Requirements for AURVTN033 Service and repair air compressors and components

Release: 1

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Modification History

Release	Comment
Release 1	New unit of competency.

Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standards defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- service and repair two different air compressors, in which the work must involve the following components:
 - air compressor motor
 - air compressor tank
 - drive system
 - pressure regulator
 - water trap and filters
 - air lines and fittings.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to servicing and repairing air compressors and components, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - working with compressed air
 - working with rotating shafts, belts and pulleys
- environmental requirements, including procedures for trapping, storing and disposing of air compressor fluids released during service and repair process
- types of air compressors and principles of operation, including:
 - reciprocating compressors
 - rotary screw compressors

- vane
- diaphragm
- single and two-stage compressors
- identification, function and operation of air compressor system components, including:
 - air compressor motor
 - air compressor tank
 - drive system
 - pressure regulator
 - water trap and filters
 - air lines and fittings
- types and applications of compressor lubricants
- procedures for final inspection and adjustment of air compressors and components, including:
 - compressor cut-out pressure
 - minimising unintended air loss
 - automatic timing switch adjustment.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

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 air compressors that they have serviced and repaired, e.g. repair 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:

- automotive workplace or simulated workplace
- workplace instructions
- manufacturer air compressor specifications
- two different operating air compressors and components as specified in the performance evidence requiring service and repair
- tools, equipment and materials appropriate for servicing and repairing air compressors and components.

Links

Companion Volume implementation guides are found in VETNet -

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

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