



Australian Government

FBPSUG2027 Perform general lathe operations

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 2.0.

Application

This unit of competency describes the skills and knowledge required to carry out general lathe operations on non-CNC lathes using a three and four jaw chuck.

The unit applies to individuals who work under supervision in the sugar milling industry.

All work must be carried out to comply with workplace procedures according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Sugar milling (SUG)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for lathe operations	1.1 Identify machining requirements according to job specifications 1.2 Select, fit and use personal protective equipment according to health and safety procedures 1.3 Collect and prepare materials to be machined 1.4 Set up lathe and tooling for machining operation according to workplace procedures and manufacturer's guidelines 1.5 Conduct pre-operational equipment checks according to operating

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	procedures 1.6 Identify and report health and safety hazards and maintenance requirements according to health and safety procedures
2. Operate lathe to achieve specifications	2.1 Set machining parameters to meet job requirements 2.2 Position materials for lathe operation according to operating procedures 2.3 Start, operate and shut down the lathe according to operating procedures 2.4 Check work for conformance to job specifications 2.5 Identify non-conforming components, and correct as required 2.6 Undertake basic routine operational maintenance according operating procedures 2.7 Ensure the work area is maintained to meet work cleaning standards

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	- Identify routine machining requirements from work instructions and technical drawings and sketches - Interpret standard operating procedures
Numeracy	- Select lathe speeds, feeds and stops - Measure and calculate to specified tolerances and dimensions - Check for conformance to specification
Navigate the world of work	- Apply workplace procedures relevant to own role - Understand main tasks, responsibilities and boundaries of own role
Interact with others	Follow accepted communication practices to communicate and report information about machining operations, operational maintenance and safety

Skill	Description
Get the work done	• Use measuring equipment to measure materials and machined components • Access and interpret lathe speeds and feeds • Recognise and respond to non-conforming components • Identify and correct machining problems, including effects of tool wear, and incorrect set-up

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPSUG2027 Perform general lathe operations.	FDFSUG227A Perform general lathe operations	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume Implementation Guides are found in VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>