



Australian Government

FBPSUG2018 Undertake forming, bending and shaping

Release: 1

FBPSUG2018 Undertake forming, bending and shaping

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 forming, bending and shaping operations. It includes hot or cold forming of pipes, cylinders, cones, angles, and ductwork using presses, shapers, benders and drop hammers.

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 forming, bending and shaping to meet specifications	1.1 Identify forming, bending and shaping requirements according to job specifications 1.2 Select, fit and use personal protective equipment according to health and safety procedures in the workplace 1.3 Select materials according to specifications 1.4 Set up and adjust the equipment according to operating procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Prepare simple templates according to specifications 1.6 Conduct pre-operational equipment checks according to operating procedures 1.7 Identify and report health and safety hazards and maintenance requirements
2. Operate forming, bending and shaping equipment to achieve required outcome	2.1 Start and operate and shut down the lathe according to operating procedures 2.2 Position and clamp materials accurately in the machine according to operating procedure 2.3 Adjust equipment to meet operating requirements 2.4 Ensure the work area is maintained to meet workplace cleaning standards
3. Form, bend and shape material	3.1 Level, straighten, roll, press or bend material according to specifications 3.2 Form and shape material to size 3.3 Check final form or shape for compliance to specifications 3.4 Identify and correct non-conforming shapes as required

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 forming, bending and shaping requirements, including tolerances, dimensions and finishes, from written work instructions and technical drawings and sketches - Interpret standard operating procedures
Numeracy	- Select and set machine stops - Measure and calculate to specified tolerances and dimensions - Check for conformance to specification
Navigate the world of	- Apply workplace procedures relevant to own role - Understand main tasks, responsibilities and boundaries of own role

Skill	Description
work	
Interact with others	Follow accepted practices to communicate and report information about operations, operational maintenance and safety
Get the work done	- Recognise and make routine decisions to respond to non-conforming components - Identify and correct 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
FBPSUG2018 Undertake forming, bending and shaping	FDFSUG230A Undertake forming, bending and shaping	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>

Assessment Requirements for FBPSUG2018 Undertake forming, bending and shaping

Modification History

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

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has undertaken forming, bending and shaping in line with workplace contexts and demonstrated each of the following points at least once:

- identified forming, bending and shaping requirements
- selected dyes, formers and accessories
- selected, fitted and used personal protective equipment (PPE)
- marked out and produced simple templates
- safely set up equipment and conducted pre-operational checks
- operated, monitored and adjusted equipment
- positioned and clamped or fed material according to equipment requirements
- measured components using dividers, trammels, rules, tapes, gauges and templates
- produced, formed and/or shaped material to meet job specification
- confirmed that the formed or shaped material meets specification
- safely shut down equipment
- maintained workplace cleaning standards
- reported health and safety risks and maintenance requirements.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- principles and practices for undertaking metal forming, bending and shaping
- site operating procedures and practices
- purpose and operating principles of forming, bending and shaping equipment, including equipment operating capacities
- the effect of heating materials on the forming and bending process
- scope to adjust equipment parameters, and related effect on outcome

- awareness of hazards related to the operation of forming, bending and shaping equipment
- workplace cleaning standards for the work area.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a sugar milling workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - PPE
 - forming, bending and shaping equipment
 - relevant measuring devices
 - materials to be formed, bent and/or shaped
 - drawings, templates and specifications as required
- specifications:
 - operating procedures and related advice on safe equipment operation, including information on safe work practices and environmental requirements
 - equipment operating procedures and related information
 - workplace cleaning standards and procedures.

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 Guides are found in VETNet: -

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