



Australian Government

FWPCOT3215 Swage and shape saw blades

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPICOT3215B Swage and shape saw blades, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to widen then press into shape, through a cold forming process, the cutting points of saw teeth to create a block that has the required hook, back, tangential and radial clearance angles for efficient saw operation. Work is completed in a wood products factory setting.

The unit applies to Sawdoctor, Saw Repairer.

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

Pre-requisite Unit

Nil

Unit Sector

Common Technical

Elements and Performance Criteria

<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Set up equipment	1.1 Review work order and where required check with appropriate personnel. 1.2 Identify required swage shape and thickness from existing saws and relevant records. 1.3 Select appropriate personal protective and other equipment and check for operational effectiveness.

	1.4 Set up saw, swage and shaping equipment to meet production requirements. 1.5 Check die or swage clamp or vice shape against required shape, clearances and kerf, and change as required. 1.6 Secure saw in a swage clamp or vice or swager with teeth aligned to swager or vice shape. 1.7 Apply anti-scuffing paste to areas of saw for swaging.
2. Swage teeth	2.1 Use equipment in line with organisational safety procedures, manufacturer's instructions and environmental protection practices. 2.2 Complete trial swage, check and adjust swaging setup. 2.3 Accept or reject trialled material and dispose of in line with environmental protection practices. 2.4 Inspect swage shape and thickness and measure for tangential and radial clearance and kerf. 2.5 Adjust swaging operation to meet production specifications. 2.6 Check dies for wear and adjust to ensure accurate operation. 2.7 Swage remaining teeth in line with production and manufacturer specifications.
3. Shape teeth	3.1 File and shape excess material resulting from swaging process. 3.2 Complete trial shape and check tooth tolerances, adjusting as required. 3.3 Accept or reject trialled material and dispose of in line with environmental protection practices. 3.4 Assess shape and check tooth alignment, adjusting remaining teeth as required. 3.5 Record and report processing problems and equipment faults to appropriate personnel.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.

Numeracy skills to:	complete precise calculations to swage and shape saw blades specified hook, back, tangential and radial clearance angles.
Oral communication skills to:	ask open and closed probe questions and actively listen to clarify contents of work orders.

Reading skills to:	• interpret: • workplace health and safety and other organisational procedures • work orders • manufacturers' recommended specifications for swaging and shaping teeth.
Writing skills to:	• complete basic accurate records for processing problems and equipment faults.
Planning and organising skills to:	• efficiently and logically sequence the stages of preparation and production using work order to guide activities.

Range of Conditions

Not Applicable

Unit Mapping Information

FPICOT3215B Swage and shape saw blades

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509f8d3d47>