

**Module 70-01-B Woodworking hand tools and machinery**

**UNIT B6.1 CUTTING TIMBER ON A CIRCULAR SAW**

**Performance criteria** 6.12 Use operational adjustments when ripping

*Range machinery: circular saw*

**Assessment task 1:**

Learners are provided with specific dimensions and specifications for a job and asked to perform the function of ripping to demonstrate they can effectively perform operational adjustments when ripping.

**Time:** 20 min

**Resources:** timber, circular saw and PPE provided.

**Assessment rubric**

Criteria	C	NYC
Select timber	Defect free timber is selected.	Timber selected has some defects (twisted, waney, bowed etc.)
Use operational adjustments when ripping	Ripping fence set up at the correct width according to the provided daimonions for the cutting.  The projection of the cutting blade above the work pace is exactly 10 mm.	Ripping fence <b>not</b> set up at the correct width according to the provided daimonions for the cutting. <b>or</b> The projection of the cutting blade above the work pace is <b>not exactly</b> 10 mm.
Use of PPE and safety rules	All PPE for the task and machine used correctly and safety rules followed.	<b>Some or none</b> PPE for the task and machine used correctly <b>and or</b> some or none of the safety rules are followed.

**UNIT B6.2 CUTTING CURVES ON A BAND SAW**

**Performance criteria** 6.2.2 Demonstrate operations of a band saw

*Range Machinery:* Cutting external curved shapes, straight cutting, Combination of straight and curved work.

**Assessment task 2:** Learners are provided with specific dimensions and specifications and asked to cut at least two different external curved shapes.

**Time:** 20 min

**Resources:** timber, band saw, templates and PPE provided

**Assessment rubric**

Criteria	C	NYC
Select timber	Defect free timber is selected.	Timber selected has <b>some defects</b> (twisted, bowed, cupped)
Select the band saw blade	Correct width bade for cutting the shape is selected.	The width of the selected blade <b>is not</b> appropriate for the shape and task.
Tensioning	Correct tensioning for the selected width blade is applied.	Correct tensioning for the selected width blade is <b>not</b> applied.
Template use	Selecting and using the correct template(s) for the task.	Template selected is <b>not</b> correct.
Shape maintained	The required shape is cut with 2 to 3 mm away from the pencil line.	The required shape is <b>not</b> cut with 2 to 3 mm away from the pencil line.
Use of PPE and safety rules	All PPE for the task and machine used correctly and safety rules followed.	<b>Some or none</b> PPE for the task and machine used correctly <b>and or</b> some or none of the safety rules are followed.

### UNIT B6.3 SANDING PIECES OF WOOD ON SANDING MACHINES

**Performance criteria** 6.3.2 Carry out operational adjustments

*Range Machinery:* Belt sander and disc sander

**Assessment task 3:** Learners are provided with two different wood pieces to sand and finish.

**Time:** 20 min

**Resources:** wood pieces, sanders, abrasive belts, fences and guards and PPE provided

#### Assessment rubric

Criteria	C	NYC
Adjust work rests	All work rests on manually fed sanders are secured properly to provide minimum clearance of 10mm but not exceeding 12 mm between the belt and the rest.	Some or all work rests on manually fed sanders are <b>not secured</b> properly to provide minimum clearance of 10mm but not exceeding 12 mm between the belt and the rest.
Install abrasive belts the same width as the pulley drum	The correct width belts is selected and installed.	The selected width belts were <b>incorrect</b> to fit the width of the pulley drum.
Belt tensioning	Abrasive belt tensioned correctly to ensure the belt runs at the same speed as the pulley drum when the wood is in contact with the belt.	Abrasive belt <b>not tensioned</b> correctly to ensure the belt runs at the same speed as pulley drum when the wood is in contact with the belt (the belt slows down upon contact with the wood surface or snaps)
Adjustment of fences and guards	All fences and guards are adjusted to 90 degrees angle before using the machine.	Some or all fences and guards are <b>not</b> adjusted to 90 degrees angle before using the machine (fences tilted, loose, or not in place)
Use of RPE/PPE and safety rules	All RPE/PPE for the task and machine used correctly and safety rules followed.	<b>Some or none</b> RPE/PPE for the task and machine used correctly <b>and or</b> some or none of the safety rules are followed.

### UNIT B6.4 PLANNING ON THE COMBINED JOINTER AND THICKNESSER

**Performance criteria** 6.4.3 Demonstrate operational adjustments for surfacing, edging & thicknessing

*Range Machinery:* Jointer, Thicknesser and Combined jointer and thicknesser

**Assessment Task 4:** Learners are given a job to plain a number of faces: one straight, one of the adjacent edges and make required adjustments of the table upward and depth.

**Time:** 20 min

**Resources:** timber, jointer, thicknesser, combined jointer and thicknesser and PPE provided

#### Assessment rubric

Criteria	C	NYC
Select timber	Defect free timber is selected.	Timber selected has some defects (twisted, waney. Bowed etc.)
Adjustments for surfacing of timber	All needed adjustments are made to ensure that gaps between the fence & the bridge guard and the timber & bridge guard are within 8- 10 mm.	Some or all adjustments made leave gaps between the fence & the bridge guard and the timber & bridge guard <b>exceeding</b> 10 mm or are smaller than 8 mm.

Adjustments for edging	All adjustments are made to ensure that gaps between the timber & the bridge guard and the table surface & bridge guard are within 8- 10 mm.	Some or all adjustments made leave gaps between the timber & the bridge guard and the table surface & bridge guard <b>exceeding</b> 10 mm or are smaller than 8 mm.
Adjustments for thicknessing	The thicknessing table is set to make a cut from 1.5mm up to 3mm deep.	The thicknessing table is set so the cut is less than 1.5 mm or <b>more than</b> 3mm deep.
Use of PPE and safety rules	All PPE for the task and machine used correctly and safety rules followed.	<b>Some or none</b> PPE for the task and machine used correctly <b>and or</b> some or none of the safety rules are followed.