

Department	Design and Technology
Year	10
Qualification	Construction

## BCHS Curriculum Map 2016-2017

Autumn 1									
Autumn 1	<b>Unit 6: Exploring Carpentry and Joinery Principles and Techniques.</b>  <b>Assignment 1</b>	<p>Introduction to unit 6 and the content of learning outcome A and B.</p> <p>Review practical task from last year and discuss Pass, Merit and distinction criteria.</p>	<p>Demonstrate Housing Joint and discuss tool features and correct use. Learner questioning and taking notes.</p> <p>Learners to construct a Housing Joint.</p>	<p>Learners to produce formal written evidence for steel rule, tri square, chisel and tenon saw</p>	<p>Demonstrate ½ lap joint and discuss tool features and correct use. Learner questioning and taking notes.</p> <p>Learners to construct a ½ lap joint.</p>	<p>Learners to produce formal written evidence for marking gauge, carpenters pencil, bench hook and mallet.</p>	<p>Demonstrate mitre joint and discuss tool features and correct use. Learner questioning and taking notes.</p> <p>Learners to construct a mitre joint.</p>	<p>Learners to produce formal written evidence for sash clamps, smoothing plane, woodworking bench with vice and G-clamps.</p>	<p>Demonstrate Bridle joint and discuss tool features and correct use. Learner questioning and taking notes.</p> <p>Learners to construct a Bridle joint.</p>
	Assessment		<p>Quality check practice joints using criteria.</p>		<p>Quality check practice joints using criteria.</p>	<p>Assess written work for literacy.</p>	<p>Quality check practice joints using grading</p>	<p>Assess all work against grading criteria <b>2A.P1</b></p>	<p>Quality check practice joints using grading</p>

Autumn 2	Autumn 2							
	Topic	Understand the purpose of formal drawings, how to read them, units of measurements and common abbreviations and symbols used.	Investigate types of wood and wood composites. Explore characteristics, properties types of finish and renewable sources.  Compare properties of natural and synthetic adhesives.	Investigate types of fixings, standardised sizing's, use and selection.  Explore finishing materials (types and grades of paper).	Be able to follow appropriate practices when working with carpentry and joinery equipment and materials. Students to select and use relevant PPE	Students to maintain clean and tidy storage area during practical activities, and understand the benefits of appropriate storage of tools, materials and equipment.	Safe movement of materials and manual handling techniques must be demonstrated, with a positive attitude for health and safety.	Procedures for cleaning tools after use and returning tools and equipment correctly must be adhered to after practical activities.
	Assessment			Assess all work against grading criteria <b>2A.P2</b>		Assess levels of competence against criteria and give feedback.		Assess levels of competence against criteria and give feedback.

Spring 1	<b>Spring 1</b>						
	Topic	Students must select and justify the selection of tools, materials and equipment to construct a mitre and ½ lap joint.	Students must select and justify the selection of tools, materials and equipment to construct a Bridle and housing joint.	Alternative natural woods must be explored for a specified carpentry and joinery task.	Alternative composite woods must be explored for a specified carpentry and joinery task.	The use of alternative materials for a specified carpentry and joinery task must be evaluated. Detailed comparisons of properties and environmental impacts to be explored.	Learners to self assess assignment 1 against grading criteria prior to submitting.
	Assessment		Assess all work against grading criteria <b>2A.M1</b>			Assess all work against grading criteria <b>2A.D1</b>	All previous grading criteria used for final assessment.

Spring 2	<b>Spring 2</b>					
	<p>Topic</p> <p><b>Unit 6: Exploring Carpentry and Joinery Principles and Techniques.</b></p> <p><b>Assignment 2</b></p>	<p>Learners to start a risk assessment prior to commencing construction of a timber frame. Hazards and people at risk must be identified.</p>	<p>Risk assessment completed, stating existing control measures and the adoption of safe working practices including PPE.</p>	<p>During construction of timber frame, students must comply with safe working practices using appropriate PPE.</p>	<p>Materials and equipment prepared to construct ½ Lap joint. Joint fully marked out and dimensions checked.</p>	<p>½ lap joint constructed to form first part of timber frame.</p>
	<p>Assessment</p>		<p>Assess work against grading criteria <b>2B.P3</b></p>	<p>Assess work against grading criteria <b>2B.P4</b></p>		<p>Assess work against grading criteria <b>2B.P5, 2B.M2 and 2B.D2.</b></p>

Summer 1		<b>Summer 1</b>							
	Topic	<p>Reflect on level achieved with practical elements and what could be done to improve grade achieved.</p> <p>Rework Practical element if required.</p>	<p>Materials and equipment prepared to construct mitre joint. Joint fully marked out and dimensions checked.</p>	<p>Mitre joint constructed to form second part of timber frame.</p>	<p>Reflect on level achieved with practical elements and what could be done to improve grade achieved.</p> <p>Rework Practical element if required.</p>	<p>Materials and equipment prepared to construct housing joint. Joint fully marked out and dimensions checked.</p>	<p>Housing lap joint constructed to form third part of timber frame.</p>	<p>Reflect on level achieved with practical elements and what could be done to improve grade achieved.</p> <p>Rework Practical element if required.</p>	
	Assessment	<p>Assess work against grading criteria <b>2B.P5, 2B.M2 and 2B.D2.</b></p>		<p>Assess work against grading criteria <b>2B.P5, 2B.M2 and 2B.D2.</b></p>	<p>Assess work against grading criteria <b>2B.P5, 2B.M2 and</b></p>		<p>Assess work against grading criteria <b>2B.P5, 2B.M2 and 2B.D2.</b></p>	<p>Assess work against grading criteria <b>2B.P5, 2B.M2 and 2B.D2.</b></p>	

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Summer 2	Summer 2							
	Topic	Materials and equipment prepared to construct Bridle joint. Joint fully marked out and dimensions checked.	Bridle joint constructed to form fourth part of timber frame.	Reflect on level achieved with practical elements and what could be done to improve grade achieved.  Rework Practical element if required.	Materials and equipment prepared to construct timber frame.	Timber frame assembled using sash clamps and adhesive.	Reflect on level achieved with practical elements and what could be done to improve grade achieved.  Rework Practical element if required.	Collate and submit all practical and written elements for this unit.

	Assessment		Assess work against grading criteria <b>2B.P5, 2B.M2 and 2B.D2.</b>	Assess work against grading criteria <b>2B.P5, 2B.M2 and 2B.D2.</b>		Assess work against grading criteria <b>2B.P6, 2B.M3 and 2B.D3.</b>	Assess work against grading criteria <b>2B.P6, 2B.M3 and 2B.D3.</b>	
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