



High Tunstall College of Science Curriculum Intent

Subject: BTEC Construction—Unit 5: Exploring Carpentry and Joinery Principles and Techniques

Learning Aim A— Understand tools, materials and equipment used in carpentry and joinery

BTEC Construction & the Built Environment (Unit 5)		Progress		
Topic	Key ideas	R	A	G
Tools, materials and equipment	Explain how tools, materials and equipment are used			
	Apply rationale for when tools, materials and equipment would be used for different situations			
	Explain how to safely use and store tools, materials and equipment			
	Explain how to safely move tools, materials and equipment			
	Justify which tools, materials and equipment would be used for a specific construction situation			
	Evaluate which alternative tools, materials and equipment could be used for a specific construction situation			

Lesson	Learning Focus	Assessment	Key Words
1	Introduction to Carpentry and Joinery (Also an Introduction to Unit 5 & Learning Aim A)	Live marking/Unit assessment task	<i>Carpentry, Joinery, Purpose, Tools, Materials, Equipment</i>
2-3	Tools used within Carpentry situation—their description, uses and safety when using, moving and storing	Live marking/Unit assessment task	<i>Tenon Saw, Mortise and Bevel Chisel, Block Plane, Mallet, Marking Gauge, G Clamp, Sash Clamp, Nail Punch, Screwdriver, Steel Rule, Try Square, Sliding Bevel</i>
3	Fixings & Glues used within Carpentry situation—their description, uses and safety when using, moving and storing	Live marking/Unit assessment task	<i>Screw, Slot Screw, Round Head Nail, Plasterboard Fixing, Flat Head Nail, PVA Glue, Epoxy Glue</i>
4	Materials & Equipment used within Carpentry situation—their description, uses and safety when using, moving and storing	Live marking/Formative assessment & Deep Marking Grid/Unit assessment task	<i>Pine Wood, Oak Wood, Softwood, Hardwood, MDF, Manufactured, Composite, Electric Drill, Electric Sander, Woodworking Bench, Vice</i>
5	Case studies—modern carpentry situations How tools, materials and equipment are used within specific carpentry situations	Live marking/Unit assessment task	<i>Carpentry, Joinery, Purpose, Tools, Materials, Equipment</i>
6	Case studies—modern carpentry situations Alternative tools, materials and equipment that can be used within specific carpentry situations	Live marking/Unit assessment task	<i>Carpentry, Joinery, Purpose, Tools, Materials, Equipment</i>
7-11 Assessment task (4 hours)	<p>Assessment tasks:</p> <p>Verbal presentation (30 minutes) working in pairs to explain the safe use of the following:</p> <ul style="list-style-type: none"> • 12 tools • 5 fixings • 2 glues • 3 materials (wood/wood composites) • 3 equipment <p>Hand written explanations to expand on the above tools, materials and equipment and show:</p> <ul style="list-style-type: none"> • Justification on how they can be used within a specific Carpentry situation (1 hour 45 mins) • Alternative tools that can be used within the same specific Carpentry situation (1 hour 45 mins) 	<p>Final Unit Assessment task</p> <p>Verbal presentation expectations:</p> <ul style="list-style-type: none"> * Speak clearly * Answer any questions from peers & teacher * Describe each tool; Discuss use of each tool and a real-life situation; Discuss Safety when using, moving and storing <p>Hand written explanations expectations:</p> <ul style="list-style-type: none"> * Justify how all tools, materials and equipment can be used in a specific carpentry situation * Discuss alternative tools, materials and equipment that can be used within the same specific carpentry situation 	