

## Unit 23: Maintenance Operations on Non-Structural Carpentry

Unit code: D/503/4935

QCF Level: 2

Credit value: 5

Guided learning hours: 30

### Unit aim and purpose

This unit should give the learner the skills to repair and maintain existing products, carpentry items and associated components and to be able to make good on completion.

### Learning outcomes and assessment criteria

In order to pass this unit, the evidence that the learner presents for assessment needs to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria determine the standard required to achieve the unit.

Learning outcomes	Assessment criteria
1 Understand how to select resources to carry out required routine maintenance on non-structural carpentry	1.1 identify non-structural carpentry products requiring maintenance 1.2 explain how the damage occurred to various non-structural carpentry items 1.3 calculate the resources and methods to repair the components safely
2 Know how to select methods, tools and equipment to carry out safely the maintenance and repair	2.1 describe the repair activity based on given maintenance sheets 2.2 describe the organisational procedures for access, emergency procedure, work method, storage and removal of waste, and security of tools and equipment 2.3 describe how to minimise the damage to work and surrounding

	<p>work areas</p> <p>2.4 describe safe maintenance operations at ground and above ground locations</p> <p>2.5 describe organisational procedures for waste management, including the reduction of waste and environmental disposal</p>
<p>3 Be able to carry out required maintenance specified in given information and make good</p>	<p>3.1 describe the legislation and safe working practises when carrying out routine maintenance activities</p> <p>3.2 carry out safely the specified repairs at ground level and above ground level</p> <p>3.3 describe site clearance on completion of the repairs, including disposal of hazardous waste</p>

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## Unit content

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### **1 Understand how to select resources to carry out required routine maintenance on non-structural carpentry**

*Reasons for maintenance:* deterioration (physical, environmental); abuse; wear and tear

*Types of timber:* softwood (red wood, white wood and Douglas fir); hardwood (oak, ash, beech, mahogany); medium density fibreboard (MDF); chipboard; plywood; Defects (wet rot, dry rot, insect infestations including woodworm, powder post beetle, common furniture and death watch beetle); disposal of affected timber

*Paint systems:* methods used to remove existing paint and defective material; methods used to apply primer, undercoat and top coat using suitable brushes

*Methods of applying preservative:* preservatives to include water-based, spirit-based and paste; application of pressure treatment and injection method

*Read and extract relevant information:* from drawings; progress charts; timetables; specifications and schedules; including door location, door type, door size, handing and ironmongery

*Calculations (of resources and materials required):* quantities; quality; budget; waste

### **2 Know how to select methods, tools and equipment to carry out safely the maintenance and repair**

*Tools and equipment:* how to use; purpose; component parts (purpose, use, replacing); cleaning; checks; maintenance; legislation relating to use; organisational procedures; reporting of defects and incidents; storage; movement; manual and mechanical lifting; working at height; limitations; hazards

*Safe working practices:* use of personal protective equipment (PPE); legislation; organisational requirements; safe working practices

*Protection:* work and surrounding working areas from damage; minimise damage; maintain clean work space; other workplace activities (that may cause damage or that your work may damage); adverse weather

### **3 Be able to carry out required maintenance specified in given information and make good**

*Maintenance skills:* measuring; marking out; splicing; fitting; finishing; positioning and securing (frames, mouldings, door/window ironmongery, guttering, downpipes, sash cords); prime and repair; make good defective plaster/brick work

*Sash*: damaged or broken sash cords; problems with opening and closing of windows; components of a box sash window (pocket, parting bead, staff bead, pulley wheels, cill, pulley stiles, weights, sliding sash, sash cord, glazing bar); sash cord replacement: methods used to replace broken or damaged cords;  
*Old surfaces*: stone, brick, lath and block walls; plasterboard; methods used to remove loose, semi-loose materials or existing coverings

*Plaster*: gypsum, lime, finish, browning and bonding; methods of mixing and applying using hand tools (saws, hammer, tape measure, spirit level, floats, trowels, bolsters, paint brushes, darby, buckets and possor)

*Mortar*: sand, cement, lime, additives, limestone; methods used to mix materials

*Damaged gutters and downpipes*: evidence of sagging, damage, rusting and leakage; plastic; cast iron; aluminum; square; round; half round; ogee; jointing; pipe brackets; union brackets; silicone; downpipe adaptor; safe working at heights; joints between different materials; components (pipe, shoe, joint, hopper, elbow, offset, gutter, clips, brackets, running outlet, stop end, 135° bend)

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