

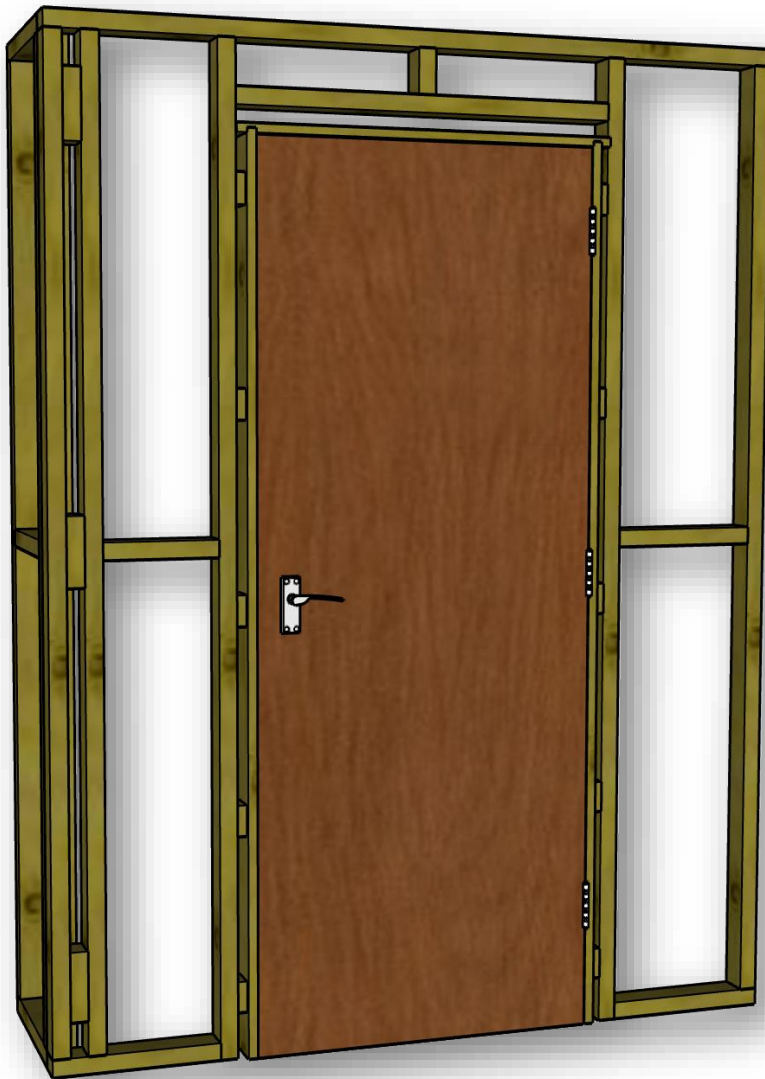
Technical Specifications

Task 1: Install Doors and Ironmongery.



209. Carry Out Second Fixing Operations

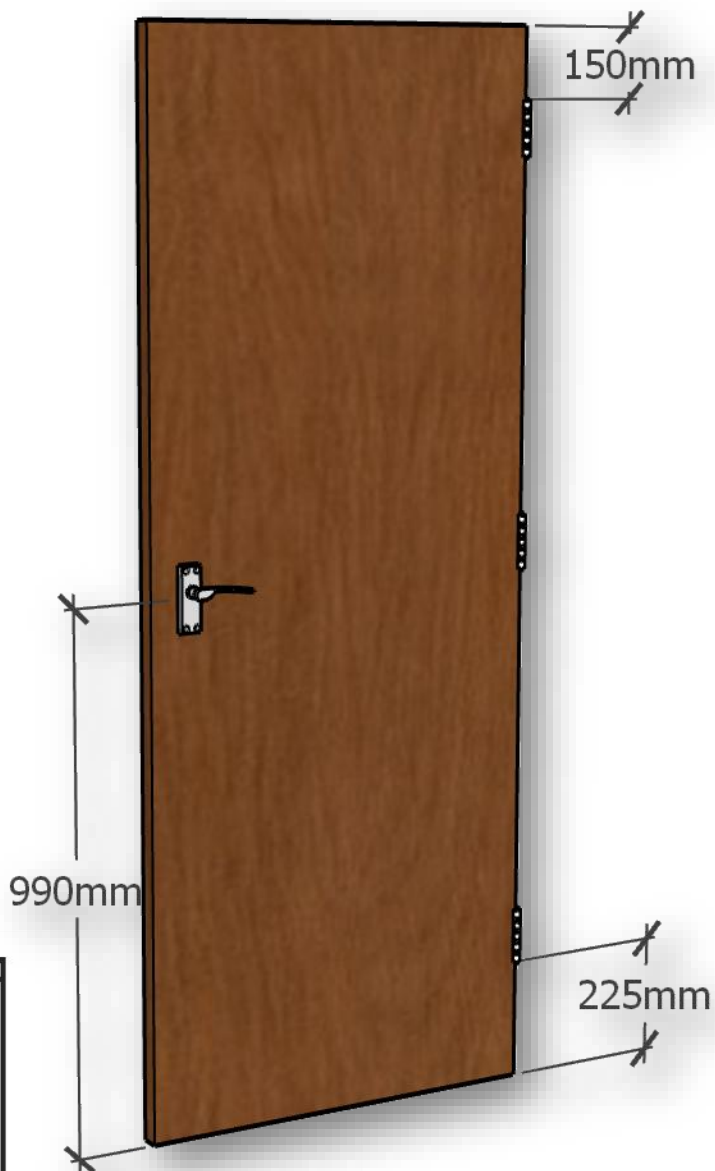
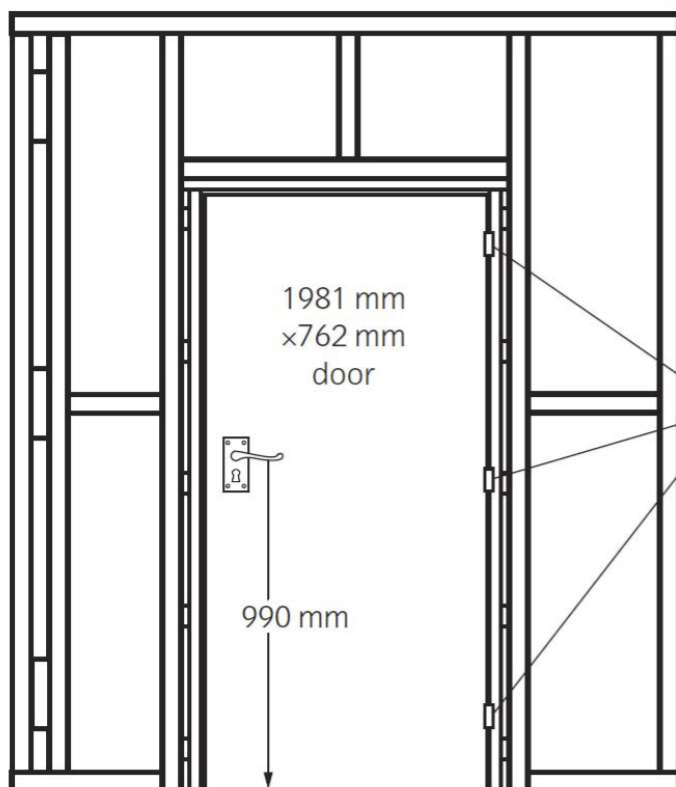
Task 1. Install doors and ironmongery.



Fitting an internal door is a practical skill that combines accuracy, patience, and an understanding of joinery. It involves measuring the opening, trimming the door to size, fitting hinges, and ensuring smooth operation within the frame. Learning this skill is valuable because doors are one of the most frequently used components in any building, and over time they can become misaligned, damaged, or worn. Being able to fit or adjust an internal door not only saves on repair costs but also contributes to general household maintenance, keeping spaces secure, energy-efficient, and visually tidy. For anyone working in construction or managing their own home, it's a core competency that reinforces both independence and long-term upkeep.

Overall Measurements.

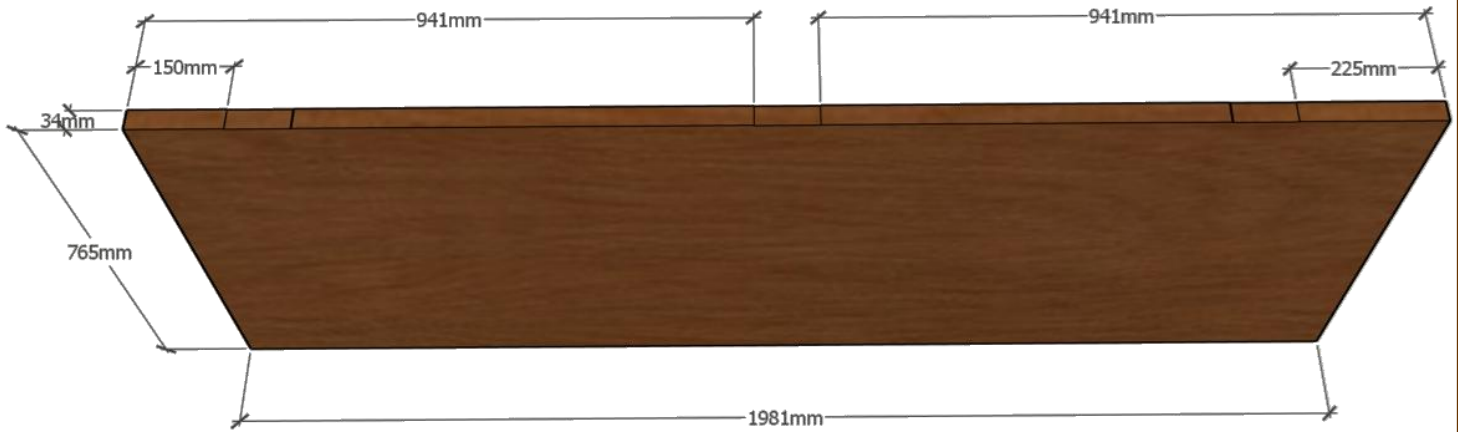
Internal Door:
1981mm x 762mm



3 hinges
150 mm from top
225 mm from bottom
Middle hinge centre

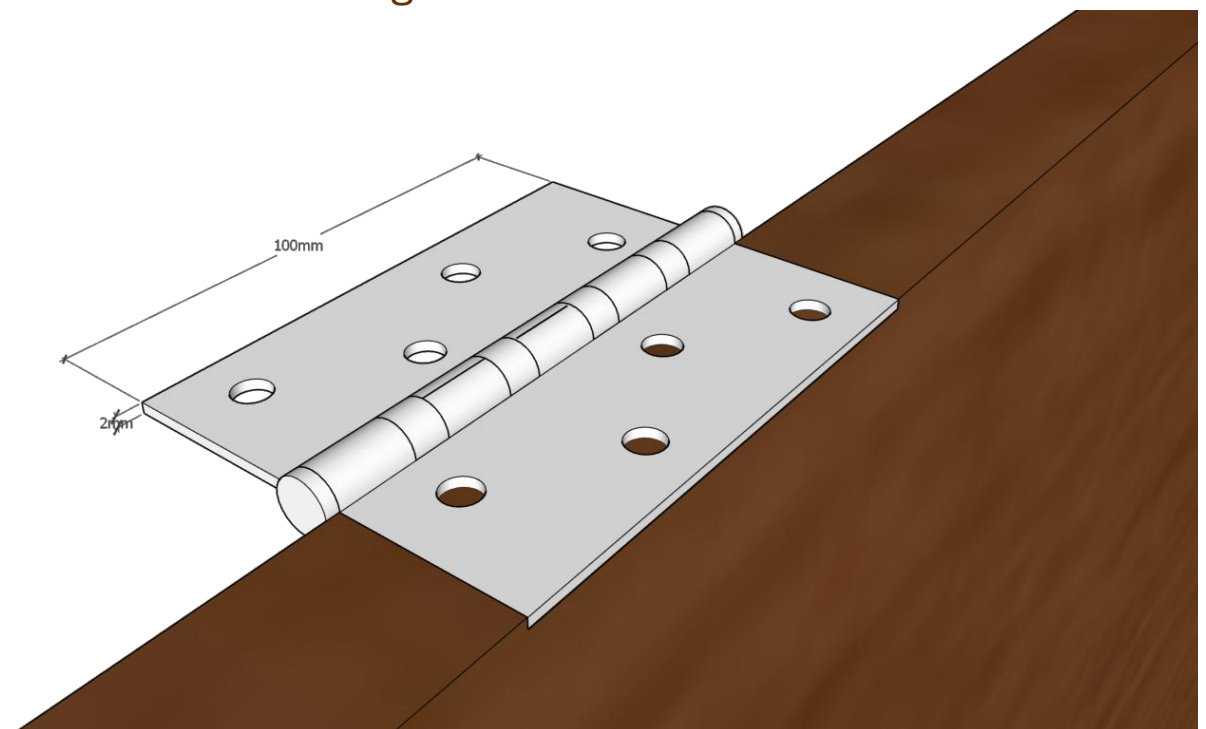
5a. Fitting Hinges.

Hinge Positioning.



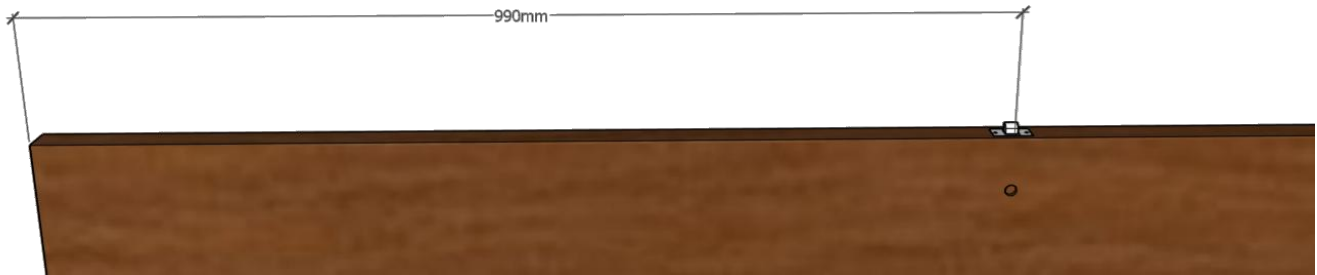
The hinge shown is a 4"/100mm hinge.
Adjust measurements for hinges of
different dimensions.

Hinges should be recessed into the
door so that the hinge sits flush.
Hinges should be fixed using screws.

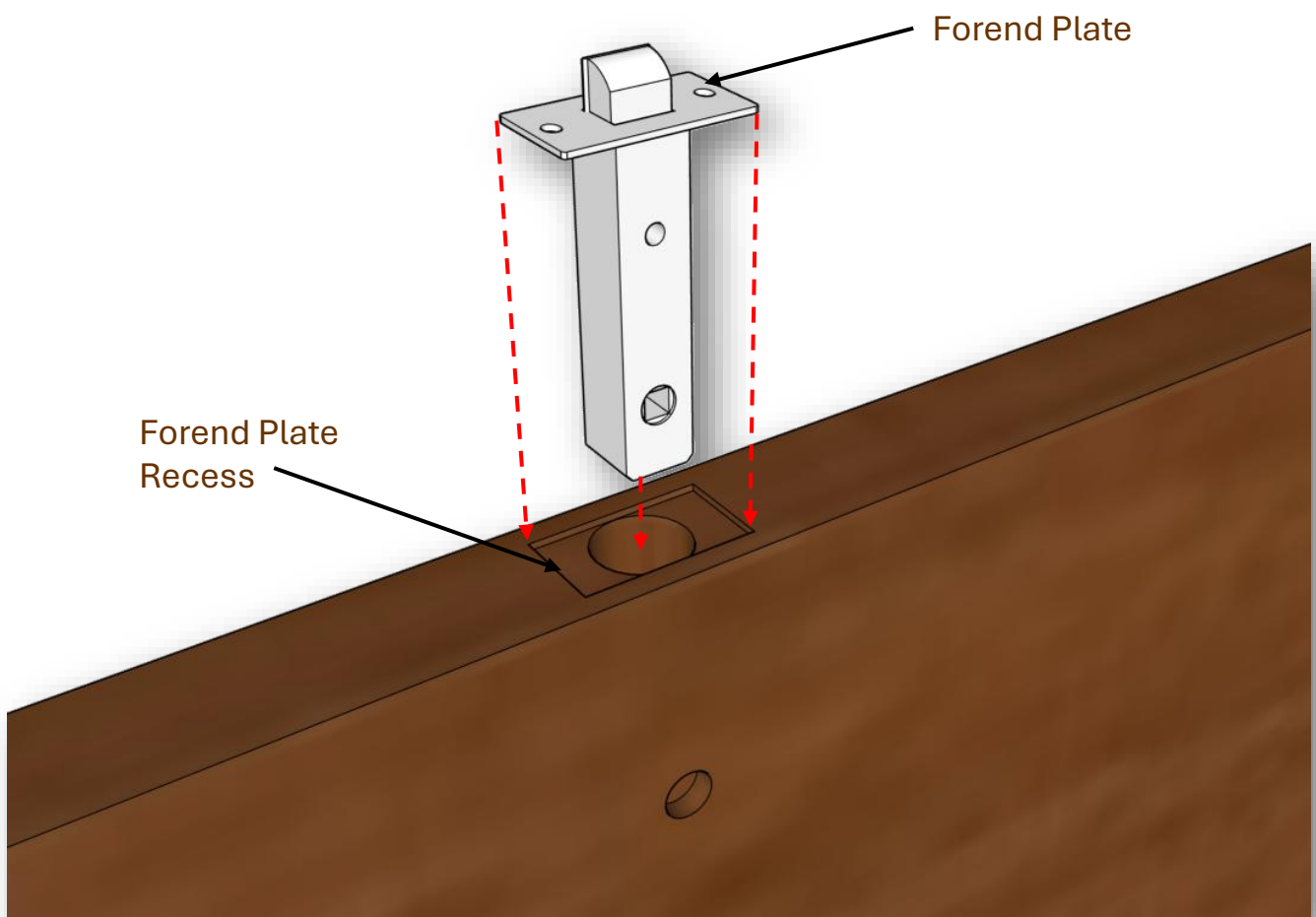


5c. Fitting Cylinder Latch.

The Cylinder latch is positioned 990mm from the bottom of the door.

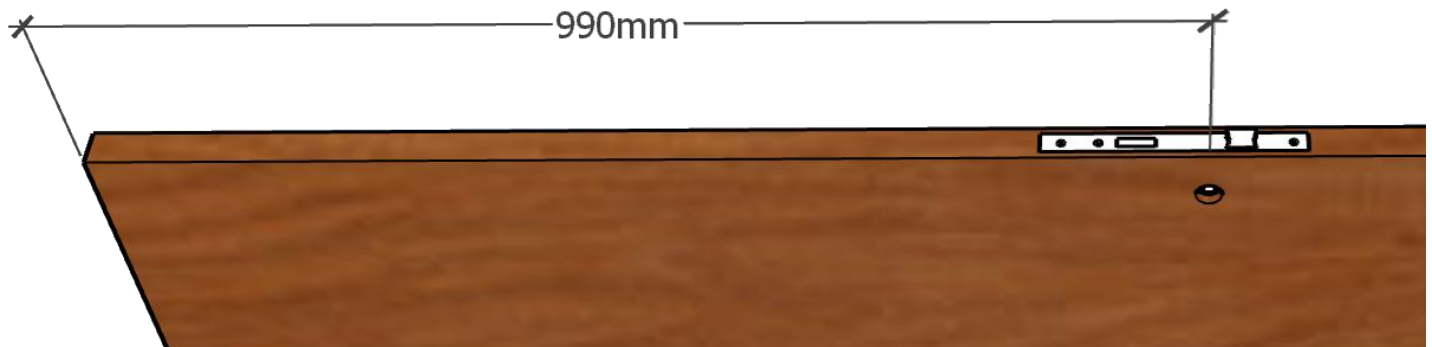


The door is then machined out using a drill and auger or flat wood bits to accommodate the cylinder latch and recessed to accept the forend plate.

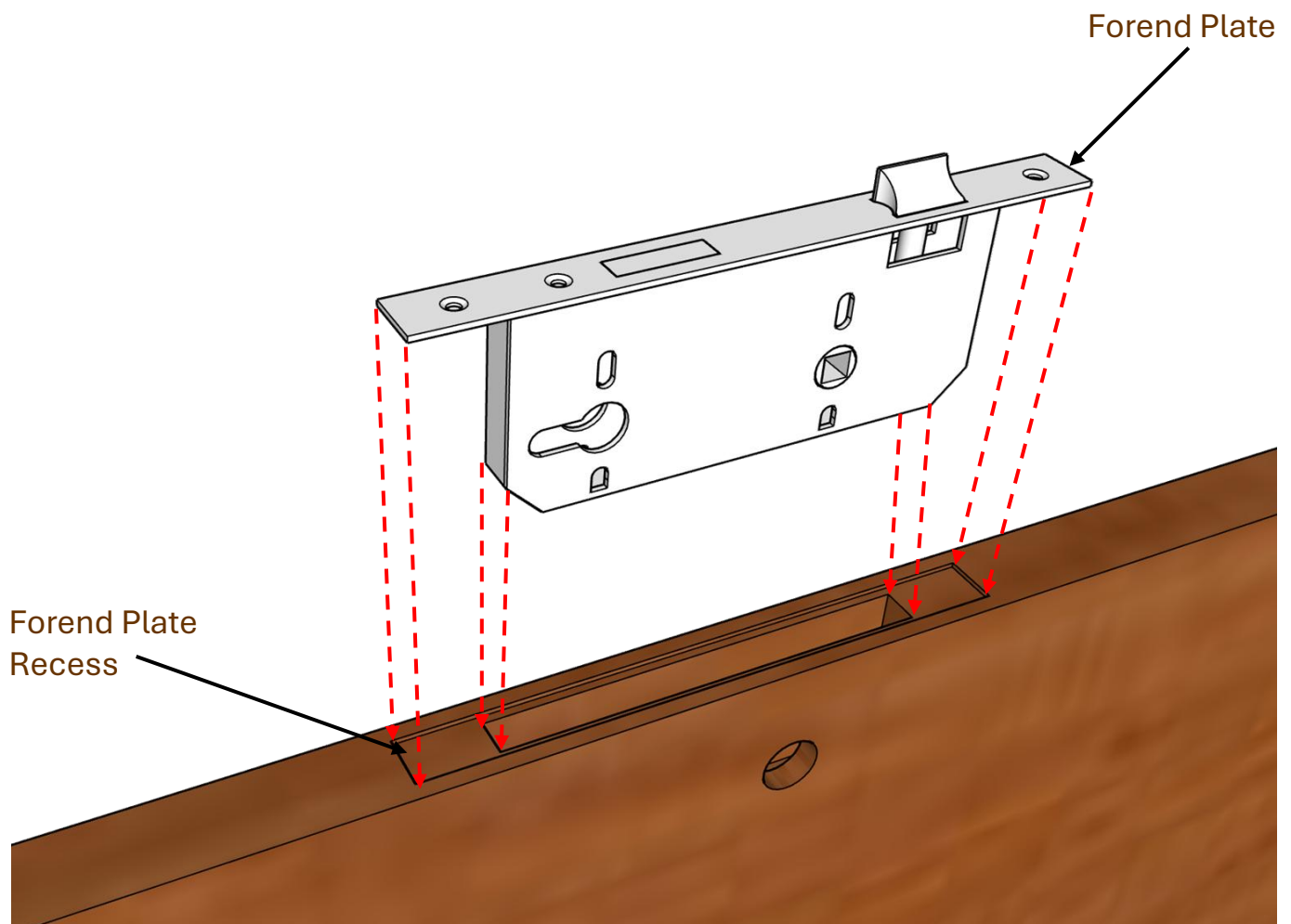


5d. Fitting Mortise Lock.

The Mortise latch handle is positioned over the spindle bar hole, 990mm from the bottom of the door.



The Mortise is cut just like when completing the Mortise in a joint, the difference is the size as it must accommodate the size of the body of the mortise latch/lock. There is also a recess required for the



Candidate Name

SEVERITY (S):

Degree of harm which may be caused (including numbers affected)

1 = Minor Injury

2 = Major Injury

3 = Fatality

LIKELIHOOD (L):

Probability that event will occur

1 = Remote

2 = Possible

3 = Likely

RISK RATING (RR):

Severity x Likelihood
1-2 = Low
3-4 = Medium
6-9 = High

[illegible]

Unit and task reference	Date	Activity	Hazard	Existing Controls	S (1-3)	L (1-3)	RR (S x L)	Actions needed

Generic forms
Resource checklist A



Unit	
------	--

Candidate name	
----------------	--

Task	
------	--

Date	
------	--

Tools and fixings (if required)	Quantity
<i>eg mortice chisel</i>	1

Materials	Quantity
<i>eg plywood (measurements if appropriate)</i>	1

Personal Protective Equipment (PPE)	Quantity
<i>eg safety harness</i>	1

Unit 209 Carry out second fixing operations

Task 1 Install doors and ironmongery

Expected time	4 hours
Task instructions	• Complete a risk assessment. • Hang a door. • Fit lock with handles. • Work according to environmental and health and safety regulations.
Diagrams	Figure 1 Door with ironmongery detail page 48

Observation checklist

AC	The candidate has	Pass	Merit	Distinction
2.1	completed the risk assessment form accurately, to meet current health and safety legislation	☐		
2.2	prepared and hung door in accordance with Figure 1	☐		
2.3	• door presented to opening and checked for size			
	• door hung with 2-3 mm gap	☐		
	• hinge housings set with gap not exceeding 1 mm	☐		
	• hinges fitted at correct spacing	☐ ± 5 mm	☐ ± 3 mm	☐ ± 1 mm
	• hinges fitted correctly (three knuckles on casing and two knuckles on door)	☐		
	• leading edge applied	☐		
	• hung without binding	☐		
	• hung flush with the lining	☐		
2.3	fitted ironmongery in accordance with Figure 1	☐	☐	☐
	• spindle height correct	± 5 mm	± 3 mm	± 1 mm
	• lock forend fitted without gaps exceeding 2 mm	☐		
	• handles fixed securely	☐		
	• handles plumb within 1 mm	☐		
	• smooth handle action	☐		
	• smooth lock/key action	☐		
	• keep fitted neatly with no gaps exceeding 1 mm	☐		
	• keep fitted flush within 1 mm (not proud)	☐		

AC	The candidate has	Pass	Merit	Distinction
	door stop fitted securely without binding with a gap of 1 mm around the inside of the door	☐		
2.4	followed current environmental and relevant health and safety and fire regulations relating to installing doors and ironmongery, including - good housekeeping - use of PPE - use of machines in accordance with ACoP	☐		

Task grading rules		Task grade:
To award a pass : every activity in the checklist must be successfully achieved.		
To award a merit : in addition to the above, both (2) graded activities in the checklist must be achieved to at least a merit standard.		
To award a distinction : in addition to both of the above, both (2) graded activities in the checklist must be achieved to a distinction standard.		
Assessor	Signature & Date	

Unit and task number	
Candidate name	

Task reference	Unit feedback		
Task reference	Action plan	Target date	Achievement date