

Title:	Constructing Thin Joint Masonry
Level:	2
Credit value:	4
GLH:	30
Unique Reference Number:	A/651/2715
Sector Subject Area:	5.2 Building and Construction
Aim:	The aim of this unit is to provide learners with the skills and knowledge to be able to interpret information required to complete the construction of thin joint masonry, in accordance with instructions.
Assessment Type:	Observed practical with underpinning knowledge questions.
Assessment Guidance:	Learners are assessed through the completion of an NOCN devised practical task and associated knowledge questions (written or verbal). The unit is internally assessed and externally quality assured. An NOCN assessment booklet has been produced and should be used to evidence all learning outcomes.

Learning outcomes

The learner will:

1. Be able to interpret the information required to construct thin joint masonry.

Delivery content:

The aim of this learning outcome is to provide the learners with the skills and knowledge to be interpret the information necessary to construct thin joint masonry.

The learner must:

- identify the **documentation** and information required to complete given tasks.
- identify different types of **drawings** and their purpose.
- interpret different drawings including **common scales**, symbols and hatchings used.
- read and apply measurements from the information correctly.
- identify and report any inaccuracies with the information in accordance with organisational procedures.
- describe the purpose of a datum point.
- **calculate** the area of the wall to be built.
- use manufacturers' information to appropriately use resources.

2. Be able to select tools, equipment and materials required to construct thin joint masonry.

Delivery content:

The aim of this learning outcome is to provide the learners with the skills and knowledge to identify and select the tools, equipment, and materials required to construct thin joint masonry.

The learner must:

- select the **tools, equipment and materials** required from the information and confirm they are correct for the given tasks.
- report any discrepancies in accordance with organisational procedures.
- **carry out checks** on all resources selected to ensure they are fit for purpose and free from damage or defects.
- report and replace any damaged or defective resources in accordance with organisational procedures.

3. Be able to prepare work areas to construct thin joint masonry.

Delivery content:

The aim of this learning outcome is to provide learners with the skills and knowledge to carry out preparations to construct thin joint masonry.

The learner must:

- interpret risk assessments to identify **hazards** and ensure relevant **personal protective equipment** and **collective protection equipment** are used correctly.
- inspect the work area to identify any additional hazards and ensure any present are mitigated.
- report issues and mitigating work carried out in accordance with organisational procedures.
- ensure the work area is clear, safe and ready for the construction of thin joint masonry and surrounding areas are protected.
- carry out calculations to identify the quantities of materials required for the given tasks.
- ensure all materials are prepared including cutting as required.
- set out resources safely and logically to support effective completion of the given tasks.

4. Be able to construct thin joint masonry.

Delivery content:

The aim of this learning outcome is to provide learners with the skills and knowledge to construct thin joint masonry.

The learner must:

- identify and confirm the horizontal and vertical datum points are correct.
- measure from datum points to set out the required works in the correct location.
- **mix compounds** in accordance with manufacturer's instructions.
- install components to specification and construct walling to form straight lengths, returns and junctions as instructed.
- ensure that all work is accurate to specification.
- apply **protection** to protect **works** from damage and adverse weather.

5. Be able to complete works following the construction of thin joint masonry.

Delivery content:

The aim of this learning outcome is to provide learners with the skills and knowledge to complete work.

The learner must:

- clean, inspect and **store** all tools, equipment and **excess materials** in accordance with manufacturers' guidance.
- report any issues in accordance with organisational procedures.
- clean the work area and **dispose of all waste** in accordance with legislative requirements, manufacturers' guidance and organisational procedures.
- leave the work area in a safe and clean condition, using collective protective measures as appropriate.
- complete all final paperwork as required and file correctly.

Scope of Training

The Scope of Training identifies areas that must be covered during the delivery of this unit. This is the minimum that is expected but tutors are expected to include other areas, knowledge of which will benefit their learners, based on location, types of work available and from the tutors own professional experience.

Documentation	Current legislation relating to health and safety, including: <ul style="list-style-type: none"> • Health and Safety at Work Act • Reporting Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR) • Control of Substances Hazardous to Health (COSHH) • Provision and Use of Work Equipment Regulations (PUWER) HSE guidance, including: <ul style="list-style-type: none"> • Manual Handling • Working at Height • Working in Confined Spaces • Asbestos • Maintaining Electrical Equipment Safety • Fire Safety / Fire Extinguishers • Lone Working • Situational Awareness 	Job specification Method statements Site inductions Toolbox talks Risk assessments Manufacturers' guidance Building regulations British Standards Warranty provider standards	
Drawings	2D and 3D drawings BIM related models Site and location plans Assembly plans Extracting information from drawings	Section details Block plans Site plans Orthographic and isometric projections	
Common scales	To include: 1:5, 1:10, 1:20, 1:50, 1:100 and 1:500		
Calculate	Linear measurements Area of brickworks	Number of courses Quantities of bricks	
Tools	Block cutter Sanding Board Whisk Line pins Lump hammer Bolster Laser level Brick jointer Brick clamps	Masonry saw Block rasp Scoop/spreader Brick trowel Scutch hammer Pointing trowel Tape measure Scutch Chariot	Spirit level Line Line blocks Corner block Boat/pocket level Chisel Rubber mallet
Equipment	Shovel Mixing tub/bucket Power tools	Wheel barrow Sack barrow	Brush Waste bags
Power tools (use and limitations)	Disc cutters	Mixers	Drills
Materials	Thin joint blocks Wall ties	Cavity closers	Water Lintels

	Insulation materials Adhesive	Damp proofing materials	Mortar
Carry out checks	Hand tools Power tools Materials		Including: pre-use checks, maintenance, sharpening techniques defect or fault escalation, storage techniques
Hazards	Slips, trips and falls Working at height Confined spaces Cuts and abrasions Fire Manual handling Plant and equipment	Hazardous substances (including lead and asbestos) Electrical equipment and leads	Comply with risk assessments Control measures Method statements Safe systems of work When to report to a manager
Personal protective equipment	Steel toe-capped boots Gloves Goggles Hard hat		High-visibility clothing Respiratory protection equipment (RPE) Hearing protection
Collective protective equipment	Signage Barriers Sheeting		
Mix compounds	Cementitious materials Adhesives Grouts Resin Pre-mixed components Gauging Hand mixing		Plasticisers Plasters Bonding agents Colourings Ratios Silos Mechanical mixing
Protection	Signage Barriers Plastic/hessian sheeting		
Works	Complete Incomplete, work in progress		
Store excess materials	Stock rotation Date order		Recycle Reuse
Dispose of waste	Avoiding surface water contamination Safe disposal Impact on the environment		

Mapping to BRICKLAYER Apprenticeship Standard ST0095 (version 1.2)

Learning Outcome	Knowledge Statements	Skills Statements	Behaviour Statements
1. Be able to interpret the information required to construct thin joint masonry.	K1, K3, K6, K7, K10, K11, K12, K26	S1, S4, S5, S6, S18	
2. Be able to select the tools, equipment and materials required to construct thin joint masonry.	K7, K8, K9, K10, K13, K14, K26	S1, S4, S5, S6, S8, S9, S18	

3. Be able to prepare work areas to construct thin joint masonry.	K1, K2, K3, K8, K10, K12, K13, K14, K26, K29	S1, S2, S5, S6, S7, S13, S18	B1
4. Be able to construct thin joint masonry.	K1, K6, K7, K8, K9, K16, K20, K21, K22, K23, K25, K30	S1, S4, S5, S6, S11, S14, S17, S22	B3, B6
5. Be able to complete works following the construction of thin joint masonry.	K1, K4, K8, K13, K25, K26	S1, S3, S4, S7, S9, S17, S18	B2, B6

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