

Title:	Laying Domestic Drainage
Level:	2
Credit Value:	20
GLH	200
Unique Reference Number:	L/618/0841
Aim:	The aim of this unit is to provide learners with the skills and knowledge to be able to interpret the information required in order to lay domestic drainage in accordance with instructions.
Assessment	Assessment of this unit will be through the completion of a NOCN devised practical task and associated knowledge questions (written or verbal). This unit is internally assessed and internally and externally quality assured using the NOCN assessment booklet to evidence all learning outcomes.
Learning outcomes	
<i>The learner will:</i>	
1.	Be able to interpret information required in order to be able to lay domestic drainage.
Delivery content:	
<p>The aim of this learning outcome is to provide the learners with the skills and knowledge to be able to interpret information to lay domestic drainage.</p> <p>The learner must:</p> <ul style="list-style-type: none"> • identify the documentation, and details contained within, in order to be able to complete given tasks. • identify and report inaccuracies with the supplied information according to organisational procedures. • identify different types of drawings and their purpose. • interpret different types of drawings including common scales and symbols and hatchings used. • read and apply measurements from information. • describe the purpose of a datum point and demonstrate how this is used to establish location and height of the drainage. • use manufacturers' information to appropriately use resources. 	
2.	Be able to identify the tools, equipment and materials required to be able to lay domestic drainage.
Delivery content:	
<p>The aim of this learning outcome is to provide learners with the skills and knowledge to identify and select tools, equipment and materials required to lay domestic drainage.</p> <p>The learner must:</p> <ul style="list-style-type: none"> • identify the requirements from the provided information and confirm that it is correct for the given tasks. • report any discrepancies in accordance with organisational procedures. 	

- carry out checks on all resources to ensure they are fit for purpose and free from defects.
- report and replace any resources not meeting requirements in accordance with manufacturers' guidance and organisational procedures.

3. Be able to prepare work areas in order to be able to lay domestic drainage.

Delivery content:

The aim of this learning outcome is to provide learners with the skills and knowledge to carry out preparations in order to lay domestic drainage.

The learner must:

- interpret risk assessments to identify hazards and ensure any collective protection equipment is used correctly.
- Inspect the work area to identify any **hazards** present and ensure any present are mitigated.
- report issues in accordance with organisational procedures.
- ensure that the work area is cleared and ready to lay domestic drainage with surrounding areas protected.
- carry out calculations to identify the correct quantities of materials required for the given tasks.
- ensure that all materials are prepared as required.
- set out resources safely and logically in order to support effective completion of the given tasks.

4. Be able to lay domestic drainage.

Delivery content:

The aim of this learning outcome is to provide learner with the skills and knowledge to lay domestic drainage in accordance with given tasks.

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 manufacturers' instructions.
- install **components** to specification.
- construct drainage to form straight lengths, returns and junctions as instructed.
- ensure that all work is accurate to specification and apply **protection** to protect complete works from damage and adverse weather.
- test completed drainage system to make sure it meets specification.

5. To able to complete works following the laying of domestic drainage.

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 all tools, equipment and excess materials and store 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.

- The work area must be left 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.

Assessment:

The Assessment Workbook is available from NOCN

	Requirements		
Documentation	Current legislation relating to health and safety Job specification Method statements		Risk assessments Manufacturers' guidance Building regulations
Drawings	2D and 3D drawings BIM related models Site and location plans Assembly plans		Section details Block plans Site plans Orthographic and isometric projections
Common scales	To include: 1:5, 1:10, 1:20, 1:50, 1:100, 1:500 and 1:2500		
Tools	Laying and bedding tools Tape measure	Pipe cutting equipment Line	Level Laser level Pegs
Equipment	Profiles Shovels Access equipment	Travellers Wheel barrow	Drain testing equipment
Materials	Plastic and clay surface water drainage pipes Junctions Backfill materials Soft landscaping Gullies	Plastic and clay foul water pipes (up to 150mm diameter) Bends Paving Water Rodding eyes	Fittings and connections Bedding materials Channels Concrete Inspecting chamber (frame and cover)
Personal protective equipment	Steel toe-capped boots Gloves Goggles Hard hat		High-visibility clothing Respiratory protection Hearing protection
Collective protective equipment	Signage Barriers Sheeting		
Hazards	Slips, trips and falls Working at height Confined spaces Manual handling Cuts and abrasions		Hazardous substances Fire Electrical equipment and leads Plant and equipment