

Title:	Undertake Structural Carcassing Operations
Level:	2
Credits	16
GLH	160
Unique Reference Number:	M/618/0802
Aim:	The aim of this unit is to provide evidence that the learner is able to interpret information required when undertaking structural carcassing operations.
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 obtain and interpret the information required in order to undertake structural carcassing operations.	
Delivery Content:	
The aim of this learning outcome is to provide the learner with the skills and knowledge to establish the requirements necessary to undertake structural carcassing operations.	
The learner must:	
<ul style="list-style-type: none"> • identify the documentation and the details contained within in order to be able to complete given tasks. • identify and report any inaccuracies with supplied information in accordance with organisational procedures. • identify different types of drawings and their purpose. • interpret drawings including common scales and symbols and hatchings used. • read and apply measurements from the information correctly. • use manufacturer's information appropriately when using resources. 	
2. Be able to identify tools, equipment and materials required to undertake structural carcassing operations.	
Delivery Content:	
The aim of this learning outcome is to provide the learner with the skills and knowledge to identify the tools, equipment and materials used to undertake structural carcassing operations.	
The learner must:	
<ul style="list-style-type: none"> • identify all tools, equipment and materials from the provided information and confirm it is correct for the given tasks. • report any discrepancies in accordance with organisational procedures. • carry out checks on all tools, equipment and materials provided to ensure they are fit for purpose and free from defects. • report and replace any defective resources that do not meet the required standard in accordance with organisational procedures. 	
3. Be able to prepare work areas and materials in order to undertake structural carcassing operations.	

Delivery Content:

The aim of this learning outcome is to provide the learner with the skills and knowledge to carry out preparations in order to undertake structural carcassing operations.

The learner must:

- review risk assessments to identify hazards and ensure collective protection measures are used correctly.
- identify any additional **hazards** present and ensure they are mitigated.
- report issues and mitigating work carried out in accordance with organisational procedures.
- use drawings to set out work area including transfer datum points as appropriate.
- ensure that the work area is cleared ready and protect the work and surrounding areas.
- ensure all **tools, equipment** and **materials** are in place and set out, safely and logically in order to support effective completion of the tasks.
- rectify **defects** in timber products and resources, where appropriate.
- carry out **calculations** to identify the correct quantities of **materials** required for the given tasks.

4. Be able to erect trussed rafter roofs.

Delivery Content:

The aim of this learning outcome is to provide the learner with the skills and knowledge to be able to erect trussed rafter roofs.

The learner must:

- identify methods for transporting and lifting trusses.
- identify the appropriate method, and alternatives, for erecting truss rafters and gables to form gable ended roofs.
- identify the procedure for forming openings in truss rafter roofs.
- erect truss rafters to form gable ends to specification.
- install timber bracing to specification.
- form **openings** in truss rafter roofs to specification.
- set out and cut common rafters for gable roofs to specification.

5. Be able to construct gables, verges and eaves.

Delivery Content:

The aim of this learning outcome is to provide the learner with the skills and knowledge to construct gables, verges and eaves.

The learner must:

- identify the appropriate methods for **finishing gables**.
- identify the appropriate methods for **finishing eaves**.
- construct, fit and fix gable ladders and bargeboards to specification.
- use associated joists, verges and eaves to construct gable ladders and bargeboards to specification.

6. Be able to install floor joists.

Delivery Content:

The aim of this learning outcome is to provide the learner with the skills and knowledge to be able to install floor joists.

The learner must:

- identify methods for supporting joists.
- identify methods for forming openings in floors.
- identify methods and components used for strutting floor joists.
- identify different types of floor joists.
- install floor joists to specification.
- install strutting and components to specification.
- form openings in floors.

7. Be able to complete works following the completion of structural carcassing operations.

Delivery Content:

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

The learner must:

- clean and inspect all tools, equipment and excess materials and store in accordance with manufacturer’s guidance, reporting 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.

The following details the requirements that **must** be met in order to achieve the learning outcome.

Assessment:

The Assessment Workbook is available from NOCN.

	Requirements		
Documentation and sources of information	Current legislation relating to health and safety Job specification	Risk assessments Manufacturer’s guidance Method statements	
Drawings	2D and 3D drawings (including elevations)	Site and location plans BIM related models	
Common scales	To include: 1:5, 1:10, 1:20, 1:50, 1:100 and 1:500		
Tools	Saws (Tenon, coping, hand) Screwdrivers Mallets Bradawl Bevels	Hammers Marking gauges Planes Set square Nail punch	Chisels, Try square Tape measure Mitre block Nail/pry bar
Equipment	Electric drills	Cordless drills	Drill bits

	Spirit levels Jig saw Electric router Circular saw Sander	Laser level Nail gun Pencil Bench	Electric mitre saw Holding devices Chop saw Transformer
Defects	Splits in timber Transit damage Cupping	Waney edge Knots and shakes	Fungal attack Resin pockets
Materials	Timber Nails Plugs Proprietary brackets	Manufactured boards Adhesive Joist hangers	Screws Prepared timber products
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 Hazardous substances Fire	Electrical equipment and leads Plant and equipment
Protection	Signage Barriers		Plastic/hessian sheeting Waste disposal / recycling
Openings	Roof light	Loft hatch	
Finishing gables	Bargeboards	Soffit	Ladder
Finishing eaves	Closed eaves	Boxed eaves	Soffit eaves