

APPRENTICESHIP STANDARD FOR ROOFING IN CONSTRUCTION

Typical Job Roles	Roof Slater and Tiler, Waterproof Membranes Installer, Roof Sheeter and Cladder
Duration	Typically 18 – 24 months
Level	2

Occupational Profile

This occupation involves carrying out skilled work, using a varied range of roofing products, on construction sites, or on existing buildings to create complete roof coverings. This is a core and options apprenticeship, with three options:

Option 1: A **Roof Slater and Tiler** will normally work on a building site, or in domestic or commercial premises, installing slate and tile roof coverings and related products to both new and existing buildings.

Option 2: A **Waterproof Membranes Installer** will normally work on a building site, or in domestic or commercial premises, installing waterproofing systems and related products, to both new and existing buildings.

Option 3: A **Roof Sheeter and Cladder** will normally work on commercial premises, installing metal sheet roof coverings and related products, to both new and existing buildings.

Core Skills

On completion of this apprenticeship, roofers will be able to:

- Work safely and be aware of key health, safety and welfare issues.
- Plan and carry out their work to commercial standards of quality and speed.
- Move, handle and store resources, complying with relevant legislation and guidance.
- Interpret and follow verbal and written work instructions from trade supervisors and site managers.
- Select the required materials and resources to carry out the work.
- Set up and check plant and/or equipment
- Install related materials and components as appropriate to the specification
- Use, maintain and store hand tools, power tools and associated equipment.
- Access, interpret and use drawings and specifications to carry out their work.

Core Knowledge

On completion of this apprenticeship, a roofer will require a comprehensive knowledge and understanding of:

- the principles of health, safety and welfare, employment law, and how these are applied in the workplace.
- how to communicate with others and comply with instructions and directions.
- the different techniques and methods used to move, handle and store materials.
- how to interpret and use relevant product information and specifications.
- which standards and codes of practice apply to their area of work
- how to calculate quantity, length, area and wastage of resources
- the principles of condensation, the factors involved and standard methods of control in roofs
- the principles of insulation and effects on heat loss in roofs
- basic drawings and calculate material quantities from given information
- the principles relating to common defects, and the repair and maintenance of roofs
- why, when and how health and safety control equipment should be used when undertaking roofing work (e.g. personal protective equipment (PPE) and respiratory protective equipment (RPE).
- how to use, maintain and store hand tools, power tools and associated equipment.
- how to work at safely at height and use access equipment correctly.
- the needs of other workers and how to work effectively with others
- the characteristics, quality, uses, sustainability, limitations and defects associated with roofing products and components used in their own specialism and the wider roofing industry.

Core behaviours expected to be displayed by all roofing apprentices

- **Effective communication:** oral, written, listening, body language, presentation.
- **Team work:** work effectively with others with limited supervision.
- **Independent working:** take responsibility for completing their own work.
- **Logical thinking:** use clear and valid reasoning when making decisions.
- **Working effectively:** undertake the work in a reliable and productive manner.
- **Time management:** use own time effectively to complete the work on schedule.
- **Adaptability:** be able to adjust to changes to work instructions.

Option 1: Roof Slater and Tiler Skill Requirements

On completion of this apprenticeship, slaters and tilers will have acquired occupational skills to be able to:

- Carry out a range of job tasks including measuring, marking out, fitting, finishing, positioning and securing.
- Install plain tiles, interlocking tiles, natural slates and fibre-cement slates

- Install underlay, battens and related roofing components
- Install pre-formed lead and/or proprietary flashings
- Install dry and wet fixed products to verges, hips, ridge and valleys
- Install insulation and ventilation products for warm and cold roof construction
- Install roof windows and flashing kits

Option 1: Roof Slater and Tiler Knowledge Requirements

On completion of this apprenticeship, slaters and tilers will require a comprehensive knowledge and understanding of:

- the principles of slating and tiling and how they are applied in routine tasks, such as, setting out roofs, installing insulation, underlay and other background materials, installing main roof coverings, fixings, fittings/components, ventilation and dry fix systems, roof windows, mixing and applying mortar and installing pre-formed lead and/or proprietary flashings
- How to use key dimensions relating to batten gauges and min/max head lap
- How to strip and reclaim slates, tiles and fittings for re-use
- how to check areas to be covered, including correct installation of cavity trays, fascia board height, barge boards, hip and valley construction, penetrations, and masonry
- how to requisition slating and tiling materials, such as tiles, slates, underlay, battens, fixings and related materials, fittings and components

Option 2: Waterproof Membranes Installer Skill Requirements

On completion of this apprenticeship, waterproof membranes installers will have acquired occupational skills to be able to:

- Carry out a range of job tasks including measuring, marking out, fitting, finishing, positioning and securing
- Clean, dry and prepare surfaces for waterproofing systems
- Install one of the three following waterproofing systems
 - reinforced bitumen
 - single-ply
 - liquid applied
- Install insulation and ventilation products for warm and cold roof construction
- Maintain and repair flat and/or pitched roofs

Option 2: Waterproof Membranes Installer Knowledge Requirements

On completion of this apprenticeship, waterproof membranes installers will require a comprehensive knowledge and understanding of:

- the principles of membrane waterproofing and how they are applied in routine tasks, such as, preparing surfaces, installing insulation, installing background materials, installing main roof coverings to include bitumen membranes or single ply or liquid applied systems, fixings, fittings/components, ventilation systems, roof windows/lights,
- how to requisition membrane waterproofing materials, such as bitumen membranes, single-ply, liquid applied systems and related materials, fittings and components
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Option 3: Roof Sheeter and Cladder Skill Requirements

On completion of this apprenticeship, Sheeters and Cladders will have acquired occupational skills to be able to:

- Carry out a range of job tasks including measuring, marking out, fitting, finishing, positioning and securing
- Clean, dry and prepare surfaces for sheeting and cladding systems
- Assess suitability of structure to receive cladding materials
- Install composite and built-up systems and rainwater goods
- Maintain, repair and over-sheet existing roofs
- Install related materials, flashings, vents and fittings/components as appropriate to the specification

Option 3: Roof Sheeter and Cladder Knowledge Requirements

On completion of this apprenticeship, sheeters and cladder will require a comprehensive knowledge and understanding of:

- the principles of sheeting and cladding and how they are applied in routine tasks, to include, preparing surfaces, assessing backgrounds, removal of existing materials including asbestos, installing insulation, installing background materials, installing main roof coverings to include composite, standing seam, single-skin and built up systems, flashings, fixings, fittings/components, ventilation systems, roof lights
- how to requisition sheeting and cladding materials, to include flashings, fixings, insulation, sheet materials, roof lights, built up and composite systems, related materials, fittings and components

Qualifications and assessment overview



Qualifications are not mandatory for this standard, however, apprentices without Level 1 English and maths will need to achieve this level and take the test for level 2 English and maths prior to taking their end point assessment.

The standard will be assessed by way of an end point assessment which will be predominantly practical in composition to test the skills of the apprentice, but will also cover knowledge and behaviour.

Progression and Professional Recognition

On completion of this standard, some apprentices may progress onto the Advanced Apprenticeship Standard in Roofing, or secure employment in the roofing industry as a craft operative. The achievement of this standard will meet the requirements of the relevant industry card, which is widely accepted in the sector as a 'license to operate' in a skilled construction trade.

Standard Review

This standard will be reviewed three years after its implementation.

Re-worked Final 19/05/16