



**Level 2 NVQ Certificate in Waterproof Membrane Roofing
Systems (Construction)**

Qualification Specification

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Introduction

The ProQual Level 2 NVQ Certificate in Waterproof Membrane Roofing Systems (Construction) qualification provides a nationally recognised qualification for green roof installers and operatives. The qualification assesses occupational competence in the workplace where candidates are required to demonstrate skills and knowledge to a level required in the construction industry. There are 3 pathways:

Pathway 1: Green Roof Support System Installer

Pathway 2: Green Roof Seeding Operative

Pathway 3: Green Roof Installer

The awarding body for this qualification is ProQual Awarding Body (www.proqualab.com) and the regulatory body is the Office of Qualifications and Examinations Regulation (Ofqual).

The qualification has been accredited onto the Regulated Qualifications Framework (RQF) and is published on Ofqual's Register of Qualifications.

Qualification Profile

Level 2 NVQ Certificate in Waterproof Membrane Roofing Systems (Construction)

| | |
|-----------------------------|---|
| Qualification title | ProQual Level 2 NVQ Certificate in Waterproof Membrane Roofing Systems (Construction) |
| Ofqual qualification number | 603/3399/6 |
| Level | 2 |
| Total Qualification Time | 74 hours (220 GLH) |
| Assessment | Pass or fail Internally assessed and verified by centre staff External quality assurance by ProQual verifiers |
| Qualification start date | 9/7/2018 |
| Qualification end date | 31/7/2026 |

Entry Requirements

There are no formal entry requirements for this qualification.

Centres should carry out an **initial assessment** of candidate skills and knowledge to identify any gaps and help plan the assessment.

Qualification Structure

To achieve the qualification candidates must complete all of the Mandatory units from one of the Pathways.

Candidates may also complete any of the Additional Units but these will not count towards the qualification.

CITB references and credit values are provided in this document for information only.

Pathways

There are 3 Pathways, the Mandatory requirements for each are listed below.

Pathway 1: Green Roof Support System Installer

Pathway 2: Green Roof Seeding Operative

Pathway 3: Green Roof Installer

Pathway 1 : Green Roof Support System Installer

Candidates must complete **FOUR** Mandatory units.

| Mandatory Units | | | <i>CITB reference provided for information only</i> |
|-------------------|---|-------|---|
| Unit Ref. | Title | Level | <i>CITB Internal Unit Ref.</i> |
| M/508/6537 | Conforming to general health, safety and welfare in the workplace | 1 | 641 |
| T/508/6538 | Conforming to productive working practices in the workplace | 2 | 642 |
| Y/508/6533 | Moving, handling and storing resources in the workplace | 2 | 643 |
| K/617/1340 | Installing support systems for green roofs in the workplace | 2 | 148v2 |

Pathway 2 : Green Roof Seeding Operative

Candidates must complete **FIVE** Mandatory units.

| Mandatory Units | | | <i>CITB reference provided for information only</i> |
|-------------------|---|-------|---|
| Unit Ref. | Title | Level | <i>CITB Internal Unit Ref.</i> |
| M/508/6537 | Conforming to general health, safety and welfare in the workplace | 1 | 641 |
| T/508/6538 | Conforming to productive working practices in the workplace | 2 | 642 |
| Y/508/6533 | Moving, handling and storing resources in the workplace | 2 | 643 |
| M/617/1341 | Establishing plants on a green roof | 2 | LANH9B |
| T/617/1342 | Prepare a green roof for planting | 2 | LANH9C |

Pathway 3 : Green Roof Installer

Candidates must complete **SIX** Mandatory units.

| Mandatory Units | | | <i>CITB reference provided for information only</i> |
|-------------------|---|-------|---|
| Unit Ref. | Title | Level | <i>CITB Internal Unit Ref.</i> |
| M/508/6537 | Conforming to general health, safety and welfare in the workplace | 1 | 641 |
| T/508/6538 | Conforming to productive working practices in the workplace | 2 | 642 |
| Y/508/6533 | Moving, handling and storing resources in the workplace | 2 | 643 |
| K/617/1340 | Installing support systems for green roofs in the workplace <i>Unit Endorsements:</i> At least four of the following components <i>Root/rhizome resistant layer</i> <i>Protection layer</i> <i>Irrigation system</i> <i>Drainage system</i> <i>Filter layer</i> <i>Substrate</i> | 2 | 148v2 |
| M/617/1341 | Establishing plants on a green roof | 2 | LANH9B |
| T/617/1342 | Prepare a green roof for planting | 2 | LANH9C |

Additional Units

Candidates may complete any of the Additional Units but these will not count towards the qualification.

| Additional Units | | | <i>CITB reference provided for information only</i> |
|-------------------|---|-------|---|
| Unit Ref. | Title | Level | <i>CITB Internal Unit Ref.</i> |
| Y/615/2184 | Installing decking for flat roof coverings in the workplace <i>Unit Endorsements:</i> <i>Boarded timber roof decks</i> <i>Boarded single skin metal roof decks</i> | 2 | 93v2 |
| H/615/2186 | Installing solar collectors to roofs in the workplace | 2 | 298v2 |

Centre Requirements

Centres must be approved to offer this qualification. If your centre is not approved please complete and submit form **ProQual Additional Qualification Approval Application**.

Staff

Staff delivering this qualification must be appropriately qualified and/or occupationally competent.

Assessors/Internal Quality Assurance

Assessors for each unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Assessors and internal quality assurance verifiers for competence-based units or qualifications will normally need to hold appropriate assessor or internal quality assurance qualifications.

Support for Candidates

Materials produced by centres to support candidates should:

- enable them to track their achievements as they progress through the learning outcomes and assessment criteria;
- provide information on where ProQual's policies and procedures can be viewed;
- provide a means of enabling Internal and External Quality Assurance staff to authenticate evidence

Links to National Standards / NOS mapping

National Occupational Standards (NOS) are owned by a Sector Skills Council or Standard Setting Body and they describe the skills, knowledge and understanding needed to undertake a particular task or job at different levels of competence.

The structure and units of this qualification are based on NOS for the construction sector developed by CITB.

Assessment

This qualification is competence-based, candidates must demonstrate the level of competence described in the units. Assessment is the process of measuring a candidate's skill, knowledge and understanding against the standards set in the qualification.

The qualifications must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment, and it must be internally assessed by an appropriately experienced and qualified assessor.

Each candidate is required to produce a portfolio of evidence which demonstrates their achievement of all of the learning outcomes and assessment criteria for each unit.

- Evidence can include:
- observation report by assessor
 - assignments/projects/reports
 - professional discussion
 - witness testimony
 - candidate product
 - worksheets
 - record of oral and written questioning
 - Recognition of Prior Learning

Learning outcomes set out what a candidate is expected to know, understand or be able to do.

Assessment criteria specify the standard a candidate must meet to show the learning outcome has been achieved.

Learning outcomes and assessment criteria can be found from page 10.

Additional information for assessment and requirements for unit **endorsements** where relevant is included after all of the learning outcomes and assessment criteria for each unit.

Internal Quality Assurance

An internal quality assurance verifier confirms that assessment decisions made in centres are made by competent and qualified assessors, that they are the result of sound and fair assessment practice and that they are recorded accurately and appropriately.

Adjustments to Assessment

Adjustments to standard assessment arrangements are made on the individual needs of candidates. ProQual's Reasonable Adjustments Policy and Special Consideration Policy sets out the steps to follow when implementing reasonable adjustments and special considerations and the service that ProQual provides for some of these arrangements.

Centres should contact ProQual for further information or queries about the contents of the policy.

Results Enquiries and Appeals

All enquiries relating to assessment or other decisions should be dealt with by centres, with reference to ProQual's Enquiries and Appeals Procedures.

Certification

Candidates who achieve the requirements for this qualification will be awarded:

- A certificate listing all units achieved, and
- A certificate giving the full qualification title -

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(Construction)**

Claiming certificates

Centres may claim certificates for candidates who have been registered with ProQual and who have successfully achieved the qualification. All certificates will be issued to the centre for successful candidates.

Unit certificates

If a candidate does not achieve all of the units required for a qualification, the centre may claim a unit certificate for the candidate which will list all of the units achieved.

Replacement certificates

If a replacement certificate is required a request must be made to ProQual in writing. Replacement certificates are labelled as such and are only provided when the claim has been authenticated. Refer to the Fee Schedule for details of charges for replacement certificates.

Units – Learning Outcomes and Assessment Criteria

| | | |
|--|--|--|
| Title: | Conforming to general health, safety and welfare in the workplace. | |
| Unit Number: | M/508/6537 | |
| Learning outcomes <i>The learner will be able to:</i> | Assessment criteria <i>The learner can:</i> | |
| 1 Comply with all workplace health, safety and welfare legislation requirements. | 1.1 | Comply with information from workplace inductions and any health, safety and welfare briefings attended relevant to the occupational area. |
| | 1.2 | Use health and safety control equipment safely to carry out the activity in accordance with legislation and organisational requirements. |
| | 1.3 | Comply with statutory requirements, safety notices and warning notices displayed within the workplace and/or on equipment. |
| | 1.4 | State why and when health and safety control equipment, identified by the principles of protection, should be used relating to types, purpose and limitations of each type, the work situation, occupational use and the general work environment, in relation to: <ul style="list-style-type: none"> – collective protective measures – personal protective equipment (PPE) – respiratory protective equipment (RPE) – local exhaust ventilation (LEV). |
| | 1.5 | State how the health and safety control equipment relevant to the work should be used in accordance with the given instructions. |
| | 1.6 | State which types of health, safety and welfare legislation, notices and warning signs are relevant to the occupational area and associated equipment. |
| | 1.7 | State why health, safety and welfare legislation, notices and warning signs are relevant to the occupational area. |
| | 1.8 | State how to comply with control measures that have been identified by risk assessments and safe systems of work. |
| 2 Recognise hazards associated with the workplace that have not been previously controlled and report them in accordance with organisational procedures. | 2.1 | Report any hazards created by changing circumstances within the workplace in accordance with organisational procedures. |
| | 2.2 | List typical hazards associated with the work environment and occupational area in relation to resources, substances, asbestos, equipment, obstructions, storage, services and work activities. |
| | 2.3 | List the current Health and Safety Executive top ten safety risks. |

Units – Learning Outcomes and Assessment Criteria

| Title: | Conforming to general health, safety and welfare in the workplace. | |
|---|--|---|
| Learning outcomes <i>The learner will be able to:</i> | Assessment criteria <i>The learner can:</i> | |
| 2 continued | 2.4 | List the current Health and Safety Executive top five health risks. |
| | 2.5 | State how changing circumstances within the workplace could cause hazards. |
| | 2.6 | State the methods used for reporting changed circumstances, hazards and incidents in the workplace. |
| 3 Comply with organisational policies and procedures to contribute to health, safety and welfare. | 3.1 | Interpret and comply with given instructions to maintain safe systems of work and quality working practices. |
| | 3.2 | Contribute to discussions by offering/providing feedback relating to health, safety and welfare. |
| | 3.3 | Contribute to the maintenance of workplace welfare facilities in accordance with workplace welfare procedures. |
| | 3.4 | Safely store health and safety control equipment in accordance with given instructions. |
| | 3.5 | Dispose of waste and/or consumable items in accordance with legislation. |
| | 3.6 | State the organisational policies and procedures for health, safety and welfare, in relation to: <ul style="list-style-type: none"> – dealing with accidents and emergencies associated with the work and environment – methods of receiving or sourcing information – reporting – stopping work – evacuation – fire risks and safe exit procedures – consultation and feedback. |
| | 3.7 | State the appropriate types of fire extinguishers relevant to the work. |
| | 3.8 | State how and when the different types of fire extinguishers are used in accordance with legislation and official guidance. |

Units – Learning Outcomes and Assessment Criteria

| Title: | Conforming to general health, safety and welfare in the workplace. | |
|--|--|--|
| Learning outcomes | Assessment criteria | |
| <i>The learner will be able to:</i> | <i>The learner can:</i> | |
| 4 Work responsibly to contribute to workplace health, safety and welfare whilst carrying out work in the relevant occupational area. | 4.1 | Demonstrate behaviour which shows personal responsibility for general workplace health, safety and welfare. |
| | 4.2 | State how personal behaviour demonstrates responsibility for general workplace health, safety and welfare, in relation to: <ul style="list-style-type: none"> – recognising when to stop work in the face of serious and imminent danger to self and/or others – contributing to discussions and providing feedback – reporting changed circumstances and incidents in the workplace – complying with the environmental requirements of the workplace. |
| | 4.3 | Give examples of how the behaviour and actions of individuals could affect others within the workplace. |
| 5 Comply with and support all organisational security arrangements and approved procedures. | 5.1 | Provide appropriate support for security arrangements in accordance with approved procedures: <ul style="list-style-type: none"> – during the working day – on completion of the day’s work – for unauthorised personnel (other operatives and the general public) – for theft. |
| | 5.2 | State how security arrangements are implemented in relation to the workplace, the general public, site personnel and resources. |

Units – Learning Outcomes and Assessment Criteria

| | |
|---|--|
| Title: | Conforming to general health, safety and welfare in the workplace. |
| Additional information about this unit | |
| Assessment Guidance | <p>This unit must be assessed in a work environment, in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.</p> <p>Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.</p> <p>Workplace evidence of skills cannot be simulated.</p> |
| Sector Subject Area | 05.2 Building and Construction |
| Availability for use | Shared unit |
| Unit guided learning hours | 7 |

Units – Learning Outcomes and Assessment Criteria

| | | |
|--|---|--|
| Title: | Conforming to productive working practices in the workplace | |
| Unit Number: | T/508/6538 | |
| Learning outcomes <i>The learner will be able to:</i> | Assessment criteria <i>The learner can:</i> | |
| 1 Communicate with others to establish productive work practices. | 1.1 | Communicate in an appropriate manner with line management, colleagues and/or customers to ensure that work is carried out productively. |
| | 1.2 | Describe the different methods of communicating with line management, colleagues and customers. |
| | 1.3 | Describe how to use different methods of communication to ensure that the work carried out is productive. |
| 2 Follow organisational procedures to plan the sequence of work. | 2.1 | Interpret relevant information from organisational procedures in order to plan the sequence of work. |
| | 2.2 | Plan the sequence of work, using appropriate resources, in accordance with organisational procedures to ensure work is completed productively. |
| | 2.3 | Describe how organisational procedures are applied to ensure work is planned and carried out productively, in relation to: <ul style="list-style-type: none"> – using resources for own and other’s work requirements – allocating appropriate work to employees – organising the work sequence – reducing carbon emissions. |
| | 2.4 | Describe how to contribute to zero/low carbon work outcomes within the built environment. |
| 3 Maintain relevant records in accordance with the organisational procedures. | 3.1 | Complete relevant documentation according to the occupation as required by the organisation. |
| | 3.2 | Describe how to complete and maintain documentation in accordance with organisational procedures, in relation to: <ul style="list-style-type: none"> – job cards – worksheets – material/resource lists – time sheets. |
| | 3.3 | Explain the reasons for ensuring documentation is completed clearly and within given timescales. |
| 4 Maintain good working relationships when conforming to productive working practices. | 4.1 | Carry out work productively, to the agreed specification, in conjunction with line management, colleagues, customers and/or other relevant people involved in the work to maintain good working relationships. |

Units – Learning Outcomes and Assessment Criteria

| | | |
|---|---|---|
| Title: | Conforming to productive working practices in the workplace | |
| Learning outcomes <i>The learner will be able to:</i> | Assessment criteria <i>The learner can:</i> | |
| | 4.2 | Apply the principles of equality and diversity and respect the needs of individuals when communicating and working with others. |
| | 4.3 | Describe how to maintain good working relationships, in relation to: <ul style="list-style-type: none"> – individuals – customer and operative – operative and line management – own and other occupations. |
| | 4.4 | Describe why it is important to work effectively with line management, colleagues and customers. |
| | 4.5 | Describe how working relationships could have an effect on productive working. |
| | 4.6 | Describe how to apply principles of equality and diversity when communicating and working with others. |

Units – Learning Outcomes and Assessment Criteria

| | |
|---|--|
| Title: | Conforming to Productive Working Practices in the Workplace |
| Additional information about this unit | |
| Assessment Guidance | <p>This unit must be assessed in a work environment, in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.</p> <p>Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.</p> <p>Workplace evidence of skills cannot be simulated.</p> |
| Sector Subject Areas | 05.2 Building and Construction |
| Availability for use | Shared unit |
| Unit guided learning hours | 10 |

Units – Learning Outcomes and Assessment Criteria

| | | |
|--|---|---|
| Title: | Moving, handling and storing resources in the workplace | |
| Unit Number | Y/508/6533 | |
| Learning outcomes <i>The learner will be able to:</i> | Assessment criteria <i>The learner can:</i> | |
| 1 Comply with given information when moving, handling and/or storing resources. | 1.1 | Interpret the given information relating to moving, handling and/or storing resources, relevant to the given occupation. |
| | 1.2 | Interpret the given information relating to the use and storage of lifting aids and equipment. |
| | 1.3 | Describe the different types of technical, product and regulatory information, their source and how they are interpreted. |
| | 1.4 | State the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented. |
| | 1.5 | Describe how to obtain information relating to using and storing lifting aids and equipment. |
| 2 Know how to comply with relevant legislation and official guidance when moving, handling and/or storing resources. | 2.1 | Describe their responsibilities under current legislation and official guidance whilst working: <ul style="list-style-type: none"> – in the workplace, in confined spaces, below ground level, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting. |
| | 2.2 | Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative. |
| | 2.3 | Explain what the accident reporting procedures are and who is responsible for making the reports. |
| | 2.4 | State the appropriate types of fire extinguishers relevant to the work. |
| | 2.5 | Describe how and when the different types of fire extinguishers, relevant to the given occupation, are used in accordance with legislation and official guidance. |
| 3 Maintain safe working practices when moving, handling and/or storing resources. | 3.1 | Use health and safety control equipment safely to carry out the activity in accordance with legislation and organisational requirements when moving, handling and/or storing resources. |
| | 3.2 | Use lifting aids safely as appropriate to the work. |

Units – Learning Outcomes and Assessment Criteria

| Title: | Moving, handling and storing resources in the workplace | |
|--|---|---|
| Learning outcomes <i>The learner will be able to:</i> | Assessment criteria <i>The learner can:</i> | |
| 3 continued | 3.3 | Protect the environment in accordance with safe working practices as appropriate to the work. |
| | 3.4 | Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to moving, handling and/or storing resources, and the types, purpose and limitations of each type, the work situation, occupational use and the general work environment, in relation to: <ul style="list-style-type: none"> – collective protective measures – personal protective equipment (PPE) – respiratory protective equipment (RPE) – local exhaust ventilation (LEV). |
| | 3.5 | Describe how the health and safety control equipment relevant to the work should be used in accordance with the given instructions. |
| | 3.6 | State how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards. |
| 4 Select the required quantity and quality of resources for the methods of work to move, handle and/or store occupational resources. | 4.1 | Select the relevant resources to be moved, handled and/or stored, associated with own work. |
| | 4.2 | Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the occupational resources in relation to: <ul style="list-style-type: none"> – lifting and handling aids – container(s) – fixing, holding and securing systems. |
| | 4.3 | Describe how the resources should be handled and how any problems associated with the resources are reported. |
| | 4.4 | Explain why the organisational procedures have been developed and how they are used for the selection of required resources. |
| | 4.5 | Describe any potential hazards associated with the resources and methods of work. |
| 5 Prevent the risk of damage to occupational resources and surrounding environment when moving, handling and/or storing resources. | 5.1 | Protect occupational resources and their surrounding area from damage in accordance with safe working practices and organisational procedures. |
| | 5.2 | Dispose of waste and packaging in accordance with legislation. |

Units – Learning Outcomes and Assessment Criteria

| Title: | Moving, handling and storing resources in the workplace | |
|---|---|--|
| Learning outcomes <i>The learner will be able to:</i> | Assessment criteria <i>The learner can:</i> | |
| 5 continued | 5.3 | Maintain a clean work space when moving, handling or storing resources. |
| | 5.4 | Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions. |
| | 5.5 | Explain why the disposal of waste should be carried safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance. |
| 6 Complete the work within the allocated time when moving, handling and/or storing resources. | 6.1 | Demonstrate completion of the work within the allocated time. |
| | 6.2 | State the purpose of the work programme and explain why deadlines should be kept in relation to: <ul style="list-style-type: none"> – progress charts, timetables and estimated times – organisational procedures for reporting circumstances which will affect the work programme. |
| 7 Comply with the given occupational resource information to move, handle and/or store resources to the required guidance. | 7.1 | Demonstrate the following work skills when moving, handling and/or storing occupational resources: <ul style="list-style-type: none"> – moving, positioning, storing, securing and/or using lifting aids and kinetic lifting techniques. |
| | 7.2 | Move, handle and/or store occupational resources to meet product information and organisational requirements relating to three of the following: <ul style="list-style-type: none"> – sheet material – loose material – bagged or wrapped material – fragile material – tools and equipment – components – liquids. |
| | 7.3 | Describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them when moving, handling and/or storing occupational resources. |
| | 7.4 | Describe the needs of other occupations when moving, handling and/or storing resources. |

Units – Learning Outcomes and Assessment Criteria

| | |
|---|--|
| Title: | Moving, handling and storing resources in the workplace |
| Additional information about this unit | |
| Assessment Guidance | <p>This unit must be assessed in a work environment, in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.</p> <p>Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.</p> <p>Workplace evidence of skills cannot be simulated.</p> |
| Sector Subject Areas | 05.2 Building and Construction |
| Availability for use | Shared unit |
| Unit guided learning hours | 17 |

Units – Learning Outcomes and Assessment Criteria

| | | |
|---|---|--|
| Title: | Installing support systems for green roofs in the workplace | |
| Unit Number: | K/617/1340 | |
| Learning outcomes <i>The learner will be able to:</i> | Assessment criteria <i>The learner can:</i> | |
| 1 Interpret the given information relating to the work and resources when installing support systems for green roofs. | 1.1 | Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information. |
| | 1.2 | Comply with information and/or instructions derived from risk assessments and method statements. |
| | 1.3 | Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented. |
| | 1.4 | Describe different types of information, their source and how they are interpreted in relation to: <ul style="list-style-type: none"> – drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, electronic data and current regulations and official guidance associated with green roofs. |
| 2 Know how to comply with relevant legislation and official guidance when installing support systems for green roofs. | 2.1 | Describe their responsibilities regarding potential accidents and health hazards and the environment, whilst working: <ul style="list-style-type: none"> – in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting |
| | 2.2 | Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative. |
| | 2.3 | Explain what the accident reporting procedures are and who is responsible for making reports. |
| | 2.4 | Describe the types of fire extinguishers available when installing support systems for green roofs and describe how and when they are used. |

Units – Learning Outcomes and Assessment Criteria

| Title: | Installing support systems for green roofs in the workplace | |
|---|---|---|
| Learning outcomes <i>The learner will be able to:</i> | Assessment criteria <i>The learner can:</i> | |
| 3 Maintain safe and healthy working practices when installing support systems for green roofs. | 3.1 | Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when installing support systems for green roofs. |
| | 3.2 | Demonstrate compliance with given information and relevant legislation when installing support systems for green roofs in relation to: <ul style="list-style-type: none"> – safe use of access equipment – safe use and handling of materials, tools and equipment – safe storage and distribution of materials, tools and equipment – specific risks to health. |
| | 3.3 | Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to installing support systems for green roofs, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul style="list-style-type: none"> – collective protective measures – personal protective equipment (PPE) – respiratory protective equipment (RPE) – local exhaust ventilation (LEV). |
| | 3.4 | Describe how the relevant health and safety control equipment should be used in accordance with the given instructions. |
| | 3.5 | Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities. |
| 4 Select the required quantity and quality of resources for the methods of work to install support systems for green roofs. | 4.1 | Select resources associated with own work in relation to materials, components, fixings, tools and equipment. |
| | 4.2 | Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to: <ul style="list-style-type: none"> – drains, resistance layers, filters, irrigation systems, protection layers, substrate, associated materials, components, fixings and fittings – hand and/or power tools and equipment. |

Units – Learning Outcomes and Assessment Criteria

| Title: | Installing support systems for green roofs in the workplace | |
|---|---|---|
| Learning outcomes <i>The learner will be able to:</i> | Assessment criteria <i>The learner can:</i> | |
| 4 Continued | 4.3 | Describe how the resources should be used correctly and how problems associated with the resources are reported. |
| | 4.4 | Explain why the organisational procedures have been developed and how they are used for the selection of required resources. |
| | 4.5 | Describe any potential hazards associated with the resources and methods of work. |
| | 4.6 | Describe how to calculate quantity, length, area and wastage associated with the method/procedure to install support systems for green roofs. |
| 5 Minimise the risk of damage to the work and surrounding area when installing support systems for green roofs. | 5.1 | Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures. |
| | 5.2 | Minimise damage and maintain a clean work space. |
| | 5.3 | Dispose of waste in accordance with current legislation. |
| | 5.4 | Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions. |
| | 5.5 | Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance. |
| 6 Complete the work within the allocated time when installing support systems for green roofs. | 6.1 | Demonstrate completion of the work within the allocated time. |
| | 6.2 | Describe the purpose of the work programme and explain why deadlines should be kept in relation to: <ul style="list-style-type: none"> – types of progress charts, timetables and estimated times – organisational procedures for reporting circumstances which will affect the work programme. |

Units – Learning Outcomes and Assessment Criteria

| Title: | Installing support systems for green roofs in the workplace | |
|--|---|--|
| Learning outcomes | Assessment criteria | |
| <i>The learner will be able to:</i> | <i>The learner can:</i> | |
| 7 Comply with the given contract information to install support systems for green roofs to the required specification. | 7.1 | Demonstrate the following work skills when installing support systems for green roofs: <ul style="list-style-type: none"> – measuring, marking out, laying, fitting, joining, sealing, finishing, positioning and securing. |
| | 7.2 | Use and maintain hand tools, power tools and ancillary equipment. |
| | 7.3 | Prepare and install support systems for green roofs to given working instruction for four of the following components: <ul style="list-style-type: none"> – root/rhizome resistant layer – protection layer – irrigation system – drainage system – filter layer – substrate. |
| | 7.4 | Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to: <ul style="list-style-type: none"> – ensure the integrity of roof structure – protect underlying roof membrane(s) – ensure appropriate layering of the green roof support system; root/rhizome resistant layers, protection layers, irrigation systems, drainage systems, filter layers and substrate – install measures to prevent slippage – identify the differences between intensive and extensive green roofs – identify the differences between intensive and extensive green roofs – use hand tools, power tools and equipment – work at height – use access equipment. |
| | 7.5 | Describe the needs of other occupations and how to effectively communicate within a team when installing support systems for green roofs. |
| | 7.6 | Describe how to maintain the tools and equipment used when installing support systems for green roofs. |

Units – Learning Outcomes and Assessment Criteria

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|---|---|
| Title: | Installing support systems for green roofs in the workplace |
| Additional information about this unit | |
| Assessment Guidance | <p>This unit must be assessed in a work environment, in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.</p> <p>Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.</p> <p>This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.</p> <p><u>ProQual Level 2 NVQ Certificate in Waterproof Membrane Roofing Systems (Construction):</u></p> <p>At least four of the following components: Root/rhizome resistant layer Protection layer Irrigation system Drainage system Filter layer substrate</p> <p>Workplace evidence of skills cannot be simulated.</p> |
| Sector Subject Area | 5.2 Building and Construction |
| Availability for use | Shared unit |
| Unit guided learning hours | 40 |

Units – Learning Outcomes and Assessment Criteria

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|--|--|
| Title: | Establishing plants on a green roof |
| Unit Number: | M/617/1341 |
| Learning outcomes <i>The learner will:</i> | Assessment criteria <i>The learner can:</i> |
| 1. Know the requirements for establishing healthy plants. | 1.1 Describe how to prepare plants in a way that is appropriate to the plant and conditions. |
| | 1.2 Describe how to check the suitability of plants for a green roof. |
| | 1.3 Describe the importance of planting plants to the correct depth and position. |
| | 1.4 Describe how to handle and transport plants in a way which minimises damage and maintains health. |
| | 1.5 Describe the methods of assessing the health and condition of plants. |
| | 1.6 Explain the importance of timing and seasonality on planting and sowing to encourage establishment and growth. |
| | 1.7 Explain why it is important to understand how plants develop with respect to the ultimate size and spread. |
| | 1.8 Describe the range of protection and support methods which may be use for different plants. |
| 2. Be able to use relevant tools and equipment. | 2.1. Select appropriate equipment for this area of work. |
| | 2.2. Use equipment according to instructions. |
| | 2.3. Prepare and store equipment in a safe and effective condition. |
| 3. Be able to select and transport plants. | 3.1. Select plants as specified. |
| | 3.2. Identify a representative sample of plants by botanical nomenclature. |
| | 3.3. Handle, prepare and transport plants in a way that maintains their health and condition. |
| | 3.4. Check the health of plants before planting or sowing and reject unacceptable specimens if necessary. |
| 4. Be able to establish plants in the growing substrate. | 4.1. Position plants according to specifications, instructions or plans. |
| | 4.2. Provide aftercare to meet specifications and instructions. |
| | 4.3. Provide protection and support to the plants if appropriate. |
| 5. Be able to work safely and minimise environmental damage. | 5.1. Work in a way that maintains health and safety and is consistent with legislation and codes of practice. |
| | 5.2. Use equipment according to instructions. |
| | 5.3. Dispose of waste safety and appropriately. |

Units – Learning Outcomes and Assessment Criteria

| Additional information about the unit | |
|--|---|
| Unit purpose and aim(s): | This unit will provide the learner with the knowledge and skills required to establish plants or seeds on a green roof and include intensive, semi-intensive or extensive green roofs. The plants or seeds must cover either ecosystems/natural habitats or aesthetic requirements. Plants include grass, wood plants, herbaceous, perennials, bedding plants, seeds, crops and sedums. |
| Availability for use: | Shared |
| Unit guided learning hours: | 23 |

Units – Learning Outcomes and Assessment Criteria

| | |
|--|---|
| Title: | Prepare a green roof for planting |
| Unit Number: | T/617/1342 |
| Learning outcomes <i>The learner will:</i> | Assessment criteria <i>The learner can:</i> |
| 6. Know the current health and safety legislation and good environmental practice. | 1.1 Outline the current health and safety legislation and codes of practice. 1.2 Describe how environmental damage can be minimised. 1.3 Describe the correct method of disposing of organic and inorganic waste. |
| 7. Know the types of tools and equipment for use on a green roof site. | 2.1 Describe how to use tools and equipment. |
| 8. Know how to prepare a green roof ready for planting. | 3.1 Describe the importance and methods of checking the integrity of the waterproof membrane. 3.2 Describe the installation methods of different materials used in the preparation of a green roof. 3.4 Describe the importance of pH, nutrients, water holding capacity and drainage of a substrate. 3.5 Describe how to achieve the correct depth, consolidation, levels and tilth ready for planting. |
| 9. Be able to work safely and minimise environmental damage to the site. | 4.1 Work in a way that maintains health and safety and is consistent with legislation and codes of practice. 4.2 Carry out work in a manner, which minimises environmental damage. 4.3 Dispose of waste safely and appropriately. |
| 10. Be able to use relevant tools and equipment. | 5.1 Select appropriate equipment for the area of work. 5.2 Use a range of equipment according to instructions. 5.3 Prepare and store equipment in a safe and effective working condition. |
| 11. Be able to prepare the sub-layers to receive substrate. | 6.1 Carry out inspection of the waterproof membrane. 6.2 Install materials to specification prior to the substrate. |
| 12. Be able to prepare a green roof for planting. | 7.1 Check the substrate is in a suitable condition/quality prior to installation. 7.2 Install substrate to the required depth. 7.3 Produce and consolidate required level and tilth as per specification. 7.4 Install ballast boundary to required specification. |

Units – Learning Outcomes and Assessment Criteria

| Additional information about the unit | |
|---------------------------------------|---|
| Unit purpose and aim(s): | This unit will provide the learner with the knowledge and skills required in preparing a roof for the planting of either an intensive, semi-intensive or extensive green roof. It covers the use of tools and equipment and the installation of growing media and substrate. Plants include grass, wood plants, herbaceous, bedding plants, seeds crops and sedums. |
| Availability for use: | Shared |
| Unit guided learning hours: | 23 |

Units – Learning Outcomes and Assessment Criteria

| | | |
|---|---|--|
| Title: | Installing decking for flat roof coverings in the workplace | |
| Unit Number: | Y/615/2184 | |
| Learning outcomes <i>The learner will be able to:</i> | Assessment criteria <i>The learner can:</i> | |
| 1 Interpret the given information relating to the work and resources when installing decking for flat roof coverings. | 1.1 | Interpret and extract relevant information from drawings, specifications, schedules, manufacturers' information and oral/written instructions. |
| | 1.2 | Comply with information and/or instructions derived from risk assessments and method statement. |
| | 1.3 | Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented. |
| | 1.4 | Describe different types of information, their source and how they are interpreted in relation to: <ul style="list-style-type: none"> – drawings, specifications, schedules, manufacturers' information, regulations governing buildings and oral/written procedures for dealing with damaged and incorrect materials and/or resources. |
| 2 Know how to comply with relevant legislation and official guidance when installing decking for flat roof coverings. | 2.1 | Describe their responsibilities under current legislation and official guidance whilst working: <ul style="list-style-type: none"> – in the workplace, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting. |
| | 2.2 | Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative. |
| | 2.3 | Explain what the accident reporting procedures are and who is responsible for making reports. |
| 3 Maintain safe and healthy working practices when installing decking for flat roof coverings. | 3.1 | Use personal protective equipment (PPE) and access equipment safely to carry out the activity in accordance with current legislation and organisational requirements when installing decking for flat roof coverings. |
| | 3.2 | Safely use and store the hand tools, portable power tools and ancillary equipment used in accordance with current legislation and organisational requirements. |
| | 3.3 | Explain why and when personal protective equipment (PPE) should be used, relating to installing decking for flat roof coverings, and the types, purpose and limitations of each type. |
| | 3.4 | Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related activities. |

Units – Learning Outcomes and Assessment Criteria

| Title: | Installing decking for flat roof coverings in the workplace | |
|---|---|---|
| Learning outcomes | Assessment criteria | |
| <i>The learner will be able to:</i> | <i>The learner can:</i> | |
| 4 Select the required quantity and quality of resources for the methods of work to install decking for flat roof coverings. | 4.1 | Describe the characteristics, quality, uses, limitations and defects associated with the resources in relation to: <ul style="list-style-type: none"> – particle boards, plywood, timber, single-skin metal sheeting, fixings and associated components – hand and/or powered tools and equipment. |
| | 4.2 | Select resources associated with own work in relation to materials, components, fixings, tools and equipment. |
| | 4.3 | Describe how the resources should be used correctly and how problems associated with the resources are reported. |
| | 4.4 | Explain why the organisational procedures have been developed and how they are used for the selection of required resources. |
| | 4.5 | Describe any potential hazards associated with the resources and method of work. |
| | 4.6 | Describe how to calculate quantity, length, area and wastage associated with the method/procedure to install decking for flat roof coverings. |
| 5 Minimise the risk of damage to the work and surrounding area when installing decking for flat roof coverings. | 5.1 | Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures. |
| | 5.2 | Minimise damage and maintain a clean work space. |
| | 5.3 | Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions. |
| | 5.4 | Dispose of waste in accordance with current legislation. |
| | 5.5 | Explain why the disposal of waste should be carried out in relation to the work. |
| 6 Complete the work within the allocated time when installing decking for flat roof coverings. | 6.1 | Demonstrate completion of the work within the allocated time. |
| | 6.2 | Describe the purpose of the work programme and explain why deadlines should be kept in relation to: <ul style="list-style-type: none"> – types of work schedules/diaries, progress charts, timetables and estimated times – organisational procedures for reporting circumstances which will affect the work programme. |

Units – Learning Outcomes and Assessment Criteria

| Title: | Installing decking for flat roof coverings in the workplace | |
|--|---|--|
| Learning outcomes | Assessment criteria | |
| <i>The learner will be able to:</i> | <i>The learner can:</i> | |
| 7 Comply with the given contract information to install decking for flat roof coverings to the required specification. | 7.1 | Demonstrate the following work skills when installing decking for flat roof coverings: <ul style="list-style-type: none"> – measuring, cutting, marking out, fitting, positioning and securing. |
| | 7.2 | Use and maintain hand tools, portable power tools and ancillary equipment. |
| | 7.3 | Install boarded timber roof decks and/or boarded single-skin metal roof decks to given working instructions and form: <ul style="list-style-type: none"> – perimeters – openings – falls – outlets – penetrations. |
| | 7.4 | Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to: <ul style="list-style-type: none"> – install decking material – create falls – form outlets – form perimeter details – negotiate penetrations – form openings – ensure deck is secure and fit for purpose – use hand tools, power tools and equipment – work at height – use access equipment. |
| | 7.5 | Describe the needs of other occupations and how to effectively communicate within a team when installing decking for flat roof coverings. |
| | 7.6 | Describe how to maintain the tools and equipment used when installing decking for flat roof coverings. |

Units – Learning Outcomes and Assessment Criteria

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|---|--|
| Title: | Installing decking for flat roof coverings in the workplace |
| Additional information about this unit | |
| Assessment Guidance | <p>This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment .</p> <p>Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.</p> <p>Workplace evidence of skills cannot be simulated.</p> <p>This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.</p> <p><u>ProQual Level 2 NVQ Certificate in Waterproof Membrane Roofing Systems (Construction):</u></p> <p>One of the following endorsements required:</p> <p>Boarded timber roof decks Boarded single skin metal roof decks</p> |
| Subject Sector areas | 5.2 Building and Construction |
| Availability for use | Shared unit |
| Unit guided learning hours | 43 |

Units – Learning Outcomes and Assessment Criteria

| | | |
|---|---|---|
| Title: | Installing Solar Collectors to Roofs in the Workplace | |
| Unit Number: | H/615/2186 | |
| Learning outcomes <i>The learner will be able to:</i> | Assessment criteria <i>The learner can:</i> | |
| 1 Interpret the given information relating to the work and resources when installing solar collectors to roofs. | 1.1 | Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information. |
| | 1.2 | Comply with information and/or instructions derived from risk assessments and method statements. |
| | 1.3 | State the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented. |
| | 1.4 | Describe different types of information, their source and how they are interpreted in relation to: <ul style="list-style-type: none"> – drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and regulations governing buildings. |
| 2 Know how to comply with relevant legislation and official guidance when installing solar collectors to roofs. | 2.1 | Describe their responsibilities under current legislation and official guidance whilst working: <ul style="list-style-type: none"> – in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting. |
| | 2.2 | Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative. |
| | 2.3 | Explain what the accident reporting procedures are and who is responsible for making reports. |

Units – Learning Outcomes and Assessment Criteria

| Title: | Installing Solar Collectors to Roofs in the Workplace | |
|---|---|---|
| Learning outcomes <i>The learner will be able to:</i> | Assessment criteria <i>The learner can:</i> | |
| 3 Maintain safe working practices when installing solar collectors to roofs. | 3.1 | Use health and safety control equipment and access equipment safely to carry out the activity in accordance with legislation and organisational requirements when installing solar collectors to roofs. |
| | 3.2 | Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to installing solar collectors to roofs, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul style="list-style-type: none"> – collective protective measures – personal protective equipment (PPE) – respiratory protective equipment (RPE) – local exhaust ventilation (LEV). |
| | 3.3 | Describe how the relevant health and safety control equipment should be used in accordance with the given instructions. |
| | 3.4 | State how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards. |
| 4 Select the required quantity and quality of resources for the methods of work to install solar collectors to roofs. | 4.1 | Select resources associated with own work in relation to materials, components, fixings, tools and equipment. |
| | 4.2 | Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to: <ul style="list-style-type: none"> – solar collector installation kits – hand and/or powered tools and equipment. |
| | 4.3 | Describe how the resources should be used correctly and how problems associated with the resources are reported. |
| | 4.4 | Explain why the organisational procedures have been developed and how they are used for the selection of required resources. |
| | 4.5 | Describe any potential hazards associated with the resources and method of work. |
| | 4.6 | Describe how to calculate quantity, length, area and wastage associated with the method/procedure to install solar collectors to roofs. |

Units – Learning Outcomes and Assessment Criteria

| Title: | Installing Solar Collectors to Roofs in the Workplace | |
|---|---|--|
| Learning outcomes | Assessment criteria | |
| <i>The learner will be able to:</i> | <i>The learner can:</i> | |
| 5 Minimise the risk of damage to the work and surrounding area when installing solar collectors to roofs. | 5.1 | Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures. |
| | 5.2 | Minimise damage and maintain a clean work space. |
| | 5.3 | Dispose of waste in accordance with legislation. |
| | 5.4 | Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions. |
| | 5.5 | Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance. |
| 6 Complete the work within the allocated time when installing solar collectors to roofs. | 6.1 | Demonstrate completion of the work within the allocated time. |
| | 6.2 | State the purpose of the work programme and explain why deadlines should be kept in relation to: <ul style="list-style-type: none"> – types of progress charts, timetables and estimated times – organisational procedures for reporting circumstances which will affect the work programme. |

Units – Learning Outcomes and Assessment Criteria

| Title: | Installing Solar Collectors to Roofs in the Workplace | |
|---|---|---|
| Learning outcomes <i>The learner will be able to:</i> | Assessment criteria <i>The learner can:</i> | |
| 7 Comply with the given contract information to installing solar collectors to roofs to the required specification. | 7.1 | Demonstrate the following work skills when installing solar collectors to roofs: <ul style="list-style-type: none"> – removing, measuring, marking out, cutting, fitting, fixing, positioning, securing and replacing. |
| | 7.2 | Prepare for and install solar collectors to roof to given working instructions for one of the following: <ul style="list-style-type: none"> – integrated photo voltaic – mounted photo voltaic – integrated solar thermal – mounted solar thermal. |
| | 7.3 | Reinstate roof coverings to given working instructions. |
| | 7.4 | Safely use and handle materials. |
| | 7.5 | Safely use hand tools, portable power tools and ancillary equipment. |
| | 7.6 | Safely store the materials, tools and equipment used when installing solar collectors to roofs. |
| | 7.7 | Describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them, to: <ul style="list-style-type: none"> – assess the installation area – check the direction the roof is facing – remove or leave out waterproofing elements – mark out for installation using given templates or dimensions – prepare and weatherproof penetrations – fix additional supports – secure fixtures, fittings and collector – reinstate roof covering including flashings – install solar panels during construction and as retrofit to existing buildings – use hand tools, power tools and equipment – work at height – use access equipment. |
| | 7.8 | Describe the needs of other occupations and how to effectively communicate within a team when installing solar collectors to roofs. |
| | 7.9 | Describe how to maintain the tools and equipment used when installing solar collectors to roofs. |

Units – Learning Outcomes and Assessment Criteria

| | |
|---|---|
| Title: | Installing Solar Collectors to Roofs in the Workplace |
| Additional information about this unit | |
| Assessment Guidance | <p>This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment</p> <p>Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.</p> <p>Workplace evidence of skills cannot be simulated.</p> <p>This unit must be assessed against the endorsements detailed within the relevant NVQ Structure.</p> <p><u>ProQual Level 2 NVQ Certificate in Waterproof Membrane Roofing Systems (Construction):</u></p> <p>One of the following endorsements required:</p> <p>Photo voltaic Solar thermal</p> |
| Sector Subject Areas | 5.2 Building and Construction |
| Availability for use | Shared unit |
| Unit guided learning hours | 20 |



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