



**ProQual Level 2 NVQ Diploma in Roadbuilding and
Maintenance (Construction)**

**Pathway 4: Manual Road Building –
Crack and Joint Repair (Manual)**

Qualification Specification

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Introduction

The ProQual Level 2 NVQ Diploma in Roadbuilding and Maintenance (Construction) – Manual Road Building is aimed at individuals working in a roadbuilding and maintenance environment. ProQual currently offers one pathway for this qualification – **Pathway 4: Manual Road Building – Crack & Joint Repair (Manual)** which is aimed at those who wish to demonstrate their competence in manually applying crack and joint repair surfacing materials.

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

This qualification has been accredited onto the Regulated Qualifications Framework and it provides a progression route to discipline related qualifications.

Qualification Profile: Level 2 NVQ Diploma in Roadbuilding and Maintenance (Construction)

Qualification title	ProQual Level 2 NVQ Diploma in Roadbuilding and Maintenance (Construction)
Ofqual qualification number	610/0512/5
Level	Level 2
Guided learning hours	200
Total qualification time	600 hours
Assessment	Pass or fail Internally assessed and verified by centre staff External quality assurance by ProQual verifiers
Qualification start date	21/2/2022
Qualification end date	

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

Pathway 4 – Manual Road Building – Crack and Joint Repair (Manual)

To achieve the qualification candidates must complete 3 Mandatory units.

CITB reference numbers are given for information only.

Mandatory Units				
Unit Reference Number	Unit Title	Unit Level	GLH	CITB Ref. No
T/508/6538	Conforming to productive working practices in the workplace	2	7	641
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	10	642
T/650/1436	Manually applying crack and joint repair surfacing materials in the workplace	2	200	383Dv1

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

For each competence-based unit centres must be able to provide at least one assessor and one internal quality assurance verifier who are suitably qualified for the specific occupational area. Assessors and internal quality assurance verifiers for competence-based units or qualifications will normally need to hold appropriate assessor or verifier qualifications, such as:

- Level 3 Award in Assessing Competence in the Work Environment
- Level 3 Award in Assessing Vocationally Related Achievement
- Level 3 Certificate in Assessing Vocational Achievement
- Level 4 Award in the Internal Quality Assurance of Assessment Processes and Practices
- Level 4 Certificate in Leading the Internal Quality Assurance of Assessment Processes and Practices

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.

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 qualification must be assessed in line with the Construction Sector Qualifications Strategy and 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 8 onwards.

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 required units for the qualification will be awarded:

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

**ProQual Level 2 NVQ Certificate in Roadbuilding and Maintenance (Construction) –
Manual Road Building – Crack and Joint Repair (Manual)**

Claiming certificates

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

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.

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.

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.

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.

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
Credit value	2
Unit guided learning hours	7

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.

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.

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 credit value	3
Unit guided learning hours	10

Title:	Manually applying crack and joint repair surfacing materials in the workplace	
Unit Number:	T/650/1436	
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 manually applying crack and joint repair surfacing materials.	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, verbal, written and graphical instructions and current regulations relating to manually applying crack and joint repair surfacing materials.
2 Know how to comply with relevant legislation and official guidance when manually applying crack and joint repair surfacing materials.	2.1	Describe their responsibilities regarding potential accidents, health hazards and the environment, whilst working: <ul style="list-style-type: none"> – in the workplace, at height, with tools and equipment, with materials and substances, with movement and storage of materials 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 manually applying crack and joint repair surfacing materials.	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 manually applying crack and joint repair surfacing materials.
	3.2	Demonstrate compliance with given information and relevant legislation when manually applying crack and joint repair surfacing materials in relation to the following: <ul style="list-style-type: none"> – safe use, storage and handling of materials, tools and equipment – specific risks to health.

Title:	Manually applying crack and joint repair surfacing materials in the workplace	
Learning outcomes <i>The learner will be able to:</i>	Assessment criteria <i>The learner can:</i>	
3 continued	3.3 Explain why and when health and safety control equipment, identified by the principles of prevention, should be used, relating to manually applying crack and joint repair surfacing materials, 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) 	
	3.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working 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 when manually applying crack and joint repair surfacing materials.	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"> – primers, epoxy or thermoplastic resins, bituminous emulsion, catalyst, doping agents, fibres, rubber, pigment and asphalt rejuvenators – aggregates – protection and masking materials – mixer and mixer pot – pre-heaters and thermal heaters – hand tools, power tools, pedestrian operated plant and equipment. 	
	4.3 Describe how to confirm that the resources and materials conform to the specification.	
	4.4 Describe how the resources should be used correctly and how problems associated with the resources are reported.	
	4.5 Explain why the organisational procedures have been developed and how they are used for the selection of required resources.	

Title:		Manually applying crack and joint repair surfacing materials in the workplace	
Learning outcomes <i>The learner will be able to:</i>		Assessment criteria <i>The learner can:</i>	
4	continued	4.6	Describe any potential hazards associated with the resources and methods of work.
		4.7	Describe how to identify by calculation, quantity, length, area and wastage associated with the method and procedure to manually apply crack and joint repair surfacing materials.
5	Minimise the risk of damage to the work and surrounding area when manually applying crack and joint repair surfacing materials.	5.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
		5.2	Maintain a clear and tidy 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 manually applying crack and joint repair surfacing materials.	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 productivity targets and time scales – how times are estimated – organisational procedures for reporting circumstances which will affect the work programme.

Title:	Manually applying crack and joint repair surfacing materials 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 manually apply crack and joint repair surfacing materials.	7.1 Demonstrate the following work skills when manually applying crack and joint repair surfacing materials: <ul style="list-style-type: none"> – measuring, setting out, marking, positioning, drying, cleaning, masking, priming, sealing, mixing, heating and decanting, spreading, curing, inspecting and communicating.
	7.2 Use and maintain hand tools, power tools and ancillary equipment.
	7.3 Prepare for and manually apply crack and joint repair surfacing materials by preparing the surface, mixing and applying materials, finishing and providing protection for the curing process, to given working instructions.
	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"> – confirm the area and location of work, the operations, safety and security requirements including temporary traffic management and immediate area protection – establish an agreed time frame for treatment – conform to agreed specification – prepare substrate, to include measuring, setting out, marking out, drying, cleaning and repairing – prepare equipment to manually apply crack and joint repair surfacing materials – protect and work around street furniture and ironwork – prepare materials, to include storing, handling and mixing – apply materials to prepared surfaces, to include heating, pouring, laying, screeding, spreading and floating – work with, around and in close proximity to plant and machinery – remove and dispose of arisings – communicate and co-ordinate progress on specialist treatment – return infrastructure to operational status – recognise and determine when specialist skills and knowledge are required and report accordingly – use hand tools, power tools, pedestrian operated plant 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 manually applying crack and joint repair surfacing materials.

	7.6 Describe how to maintain the tools and equipment used to manually apply crack and joint repair surfacing materials.
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Title:	Manually applying crack and joint repair surfacing materials 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	183



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