



Level 2 NVQ Diploma in Winter Services (Construction)

Qualification Specification

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Introduction

The aim of this qualification is to recognise the knowledge, skills and competence of individuals employed as snowplough or gritter operators.

The awarding organisation for this 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 (RQF).

Qualification Profile

Qualification title	ProQual Level 2 NVQ Diploma in Winter Services (Construction)
Ofqual qualification number	603/3728/X
Level	Level 2
Total qualification time	370 hours
Guided learning hours	124
Assessment	Pass or fail Internally assessed and verified by centre staff External quality assurance by ProQual verifiers
Qualification start date	24/10/2018
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

Candidates must complete all FOUR Mandatory units. Unit Endorsements are indicated in the unit list below, full details of endorsements are also included after the learning outcomes/assessment criteria at the end of unit H/617/2809

Mandatory Units – complete ALL units			
Unit Reference Number	Unit Title	Unit Level	GLH
M/508/6537	Conforming to general health, safety and welfare in the workplace	1	7
T/508/6538	Conforming to productive working practices in the workplace	2	10
Y/508/6533	Moving, handling and storing resources in the workplace	2	17
H/617/2809	<p>Operate plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow</p> <p><u>Unit Endorsements</u></p> <p><i>At least one of the following:</i></p> <p><i>Up to 3500kg</i></p> <p><i>From 3500kg to 7500kg – medium LGV</i></p> <p><i>Over 7500kg – HGV</i></p> <p><i>Snowplough up to 3500kg</i></p> <p><i>Snowplough up to 7500kg</i></p> <p><i>Snowplough over 7500kg</i></p> <p><i>Snowblower – dedicated</i></p> <p><i>Snowblower – demountable</i></p> <p><i>Pedestrian controlled mechanised equipment</i></p> <p><i>Towed equipment</i></p> <p><i>Specialist equipment</i></p> <p>Plus at least one of the following:</p> <p><i>Dual carriageway roads</i></p> <p><i>Single carriageway roads</i></p> <p><i>Cycle ways</i></p> <p><i>Footways and/or footpaths</i></p> <p><i>Off highway areas</i></p> <p>Plus at least one of the following:</p> <p><i>Spreading</i></p> <p><i>Spraying</i></p> <p><i>Ploughing</i></p> <p><i>Blowing</i></p> <p><i>Clearing</i></p>	2	90

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 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:

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

Assessment

Candidates must demonstrate the level of knowledge described in the unit. Assessment is the process of measuring a candidate's knowledge and understanding against the standards set in the qualification.

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

Evidence can include:

- assignments/projects/reports
- worksheets
- portfolio of evidence
- record of oral and/or written questioning
- candidate test papers

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 for this qualification can be found from page 8.

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 qualifications will be awarded:

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

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Claiming certificates

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

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.

Title:	Conforming to general health, safety and welfare in the workplace.	
Unit Number:	M/508/6538	
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.

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.

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>	
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.

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	5.2 Building and Construction
Availability for use	Shared unit
Unit guided learning hours	7

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.

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.

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

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.

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.

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.

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

Title:	Operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow in the workplace	
Unit Number:	H/6178/2809	
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 use of operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow.	1.1	Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments, weather forecasts, maps, navigation aids and manufacturers' information related to the work to be carried out.
	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, weather forecasts, maps, navigation aids, manufacturers' information and current regulations governing the operation of plant, machinery, equipment and vehicles
2 Organise with others the sequence and operation in which winter services operations using plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow are to be carried out.	2.1	Organise the work according to given information or instructions.
	2.2	Describe how to communicate ideas between team members.
	2.3	Organise and communicate with team members and other associated occupations about the plant, machinery, towed equipment, equipment or vehicle operation and the work to be carried out
	2.4	Describe how to organise resources prior to and during winter service operations with plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow.

Title:	Operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow in the workplace	
Learning outcomes <i>The learner will be able to:</i>	Assessment criteria <i>The learner can:</i>	
3 Know how to comply with relevant current legislation, special legal status documents, official guidance and organisational procedures when carrying out winter services operations to prevent, clear or reduce the impact of ice or snow.	3.1 Describe their responsibilities regarding potential accidents, health hazards and the environment, working alone and mobile work whilst working: – in the workplace, in confined spaces, at height, with tools and equipment, with materials and substances, with movement and storage of materials, by manual handling and mechanical lifting.	
	3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.	
	3.3 Explain what the accident reporting procedures are and who is responsible for making reports.	
4 Maintain safe and healthy working practices when operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow.	4.1 Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with legislation and organisational requirements during winter services operations.	
	4.2 Demonstrate compliance with given information and relevant legislation when operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow in relation to four of the following: – current training, competence and authority – safe use and storage of plant, machinery, towed equipment or vehicles – safe use and storage of tools and equipment – safe use of access equipment – dealing with customers (pedestrians and road users) – specific risks to health.	
	4.3 Explain why and when health and safety control equipment, identified by the principles of prevention, should be used, relating to winter services use, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: – collective protective measures – personal protective equipment (PPE) – local exhaust ventilation (LEV).	
	4.4 Describe how the relevant health and safety control equipment should be used in accordance with the given working instructions.	

Title:	Operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow in the workplace	
Learning outcomes <i>The learner will be able to:</i>	Assessment criteria <i>The learner can:</i>	
4 Continued	4.5	Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries, emergencies in relation to occupational activities, hypothermia and cold weather related injuries (causes, symptoms and treatment).
5 Request and select the required quantity and quality of resources to prepare for and carry out winter services operations by operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow.	5.1	Request and select resources associated with winter services in relation to operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow.
	5.2	Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources, and how they should be used correctly, relating to: <ul style="list-style-type: none"> – consumables – de-icing and anti-icing materials – attachments, ancillaries and aids for spreading, spraying, ploughing, blowing and clearing – route planning and navigation aids – monitoring, measuring and recording equipment – hand tools, ancillary equipment and accessories.
	5.3	Describe how the resources should be used correctly and how problems associated with the resources are reported.
	5.4	Explain why the organisational procedures have been developed and how they are used for the selection of required resources.
	5.5	Describe any potential hazards associated with the resources and methods of work.
	5.6	Describe how to identify weight, bearing, pressure, quantity, volume, length and area associated with the method and procedures to carry out winter services when operating plant, machinery, equipment and vehicles to prevent, clear or reduce the impact of ice or snow.

Title:	Operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow in the workplace	
Learning outcomes <i>The learner will be able to:</i>	Assessment criteria <i>The learner can:</i>	
6 Minimise the risk of damage to the work and surrounding area when operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow.	6.1	Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.
	6.2	Prevent damage and maintain a clean work space.
	6.3	Dispose of waste in accordance with current legislation.
	6.4	Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.
	6.5	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.
7 Complete the work within the allocated time when operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow.	7.1	Demonstrate completion of the work within the allocated time.
	7.2	Describe the purpose of the work programme and describe 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.
8 Comply with the given contract information for winter services when operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow to the required specification.	8.1	Demonstrate the following work skills when preventing, clearing or reducing the impact of ice or snow when operating plant, machinery, equipment or vehicles: <ul style="list-style-type: none"> – measuring, checking, aligning, adjusting, setting, clearing and recording.
	8.2	Use and maintain plant, machinery, equipment, vehicles, tools and equipment.

Title:	Operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow in the workplace
Learning outcomes <i>The learner will be able to:</i>	Assessment criteria <i>The learner can:</i>
8 Continued	<p>8.3 Operate pedestrian controlled equipment plus one of the following winter services plant, machinery, equipment or vehicles to reasonably prevent, clear or reduce the impact of ice or snow to given working instructions:</p> <ul style="list-style-type: none"> – up to 3500kg – from 3500kg to 7500kg (medium LGV) – over 7500kg (HGV) – snowplough up to 3500kg – snowplough up to 7500kg – snowplough over 7500kg – snowblower dedicated – snowblower demountable – pedestrian controlled mechanised equipment – towed equipment – specialist equipment (ice breaker, melters).
	<p>8.4 Reasonably prevent, clear or reduce the impact of ice or snow for one of the following:</p> <ul style="list-style-type: none"> – dual carriageway roads – single carriageway roads – cycle ways – footways and/or footpaths – off highway areas (e.g. car parks, vehicle yards, airports, platforms, stadiums, loading bays, or quaysides).
	<p>8.5 Operate plant, machinery, towed equipment, vehicles or equipment to reasonably prevent, clear or reduce the impact of ice or snow to given working instructions by one of the following methods:</p> <ul style="list-style-type: none"> – spreading – spraying – ploughing – blowing – clearing.
	<p>8.6 Record or report activities and progress.</p>
	<p>8.7 Shut down and secure plant, machinery, towed equipment, vehicle or equipment.</p>

Title:	Operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow in the workplace	
Learning outcomes <i>The learner will be able to:</i>	Assessment criteria <i>The learner can:</i>	
8 Continued	8.8 contd	<p>Describe how to apply safe and healthy work practices, follow procedures, report problems and establish authority needed to rectify, to:</p> <ul style="list-style-type: none"> – identify the characteristics of the winter services plant, machinery, equipment and vehicles and attachments for preventing, clearing and reducing the impact of ice and snow – complete pre-start, running and post stop checks – identify valid certification for maintenance and inspection – prepare, set up and adjust for operational requirements, safety and security – carry out function checks for, spreading, spraying, ploughing, blowing and clearing – confirm routes and locations requiring priority treatment – identify the suitability of de-icing and anti-icing materials – recognise the criteria for storing de-icing and anti-icing materials – recognise the eutectic point and its effect on treatment materials – identify the environmental impact that can be caused by winter service operations, salt and de-icing and anti-icing materials – check calibration of de-icing and anti-icing equipment, sprayers and spreaders – identify spread rates for treatment, spraying and clearing patterns – clear and treat one of the following, dual carriageway roads, single carriageway roads, cycle ways, footways and footpaths (including tunnels and portals), off highway areas (e.g. car parks, vehicle yards, airports, platforms, stadiums, loading bays and quaysides), tramways, level crossings, segregated areas, running surfaces, drainage channels, culverts, gullies and offlets – avoid damage to structures, infrastructure (e.g. highway features, railway crossings and temporary works), utilities service apparatus, vehicles, cycles, people and animals – adjust operations for varying weather conditions, surfaces, local requirements and constraints – work in public areas – load and replenish spread materials and return unused materials

Title:	Operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow in the workplace	
Learning outcomes <i>The learner will be able to:</i>	Assessment criteria <i>The learner can:</i>	
8 Continued	8.8 contd	<ul style="list-style-type: none"> – recognise and determine when specialist skills and knowledge are required and report accordingly – record and report activities, progress and achievements – clean, clear and lubricate equipment after operations – monitor wear and tear on equipment – deal with blockages – deal with plant, machinery, equipment and vehicle breakdowns – deal with communication equipment failures – use access equipment (including; gantries, platforms and vehicle ladders) – shut down and secure plant, machinery, equipment and vehicles – use hand tools, ancillary equipment and accessories.
	8.9	Describe the needs of other occupations and how to effectively communicate within a team when operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow.
	8.10	Describe how to maintain the plant, machinery, towed equipment or vehicles, hand tools, ancillary equipment and accessories used for winter services.

Title:	Operating plant, machinery, equipment or vehicles to prevent, clear or reduce the impact of ice or snow 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. Workplace evidence of skills cannot be simulated.</p> <p>This unit must be assessed against the endorsements detailed within the relevant NVQ Structure. <u>ProQual Level 2 NVQ Diploma in Winter Services (Construction)</u></p> <p><i>At least one of the following:</i></p> <p><i>Up to 3500kg- (e.g. Plant, machinery and vehicles below 3500kg, vehicles up to 3500kg including agricultural tractors, Highways Agency dedicated Winter Services vehicles, equipment, towed equipment)</i></p> <p><i>From 3500kg to 7500kg – medium LGV – (e.g. vehicles, Highways Agency equipment (Foden 4000 series and dedicated Winter Service vehicles), National Assembly for Wales dedicated vehicles, equipment, towed equipment)</i></p> <p><i>Over 7500kg – HGV – (e.g. Highways Agency dedicated Winter Services vehicles, National Assembly for Wales dedicated vehicles, equipment, towed equipment)</i></p> <p><i>Snowplough up to 3500kg</i></p> <p><i>Snowplough up to 7500kg</i></p> <p><i>Snowplough over 7500kg</i></p> <p><i>Snowblower – dedicated (e.g. Highways Agency/National Assembly Wales dedicated Rolba 400 or 1000 series, dedicated Winter Service vehicles)</i></p> <p><i>Snowblower – demountable (e.g. vehicles, equipment, snowploughs up to 7500kg)</i></p> <p><i>Pedestrian controlled mechanised equipment (e.g. Snowblower dedicated)</i></p> <p><i>Towed equipment (e.g. over 7500kg)</i></p> <p><i>Specialist equipment (e.g. Ice breakers, ice melters)</i></p> <p>Plus at least one of the following:</p> <p><i>Dual carriageway roads</i></p> <p><i>Single carriageway roads</i></p> <p><i>Cycle ways</i></p> <p><i>Footways and/or footpaths</i></p> <p><i>Off highway areas (car parks, vehicle yards, airports, platforms, stadiums or quaysides)</i></p> <p>Plus at least one of the following:</p> <p><i>Spreading</i></p> <p><i>Spraying</i></p> <p><i>Ploughing</i></p> <p><i>Blowing</i></p> <p><i>Clearing</i></p>

Sector Subject Areas	5.2 Building and Construction
Availability for use	Shared unit
Unit Credit value	27
Unit guided learning hours	90



www.proqualab.com

enquiries@proqualab.com

Tel: +44 (0)1430 423822

ProQual AB Limited, ProQual House, Westbridge Court, Annie Med Lane, South Cave HU15 2HG
Company Registration Number: 07464445