



Level 2 Diploma in Steel Erecting

Qualification Specification

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Introduction

The aim of this qualification is to recognise the knowledge, skills and competence of individuals who specialise in steel erecting in the construction and engineering industries.

The awarding organisation for this qualification is ProQual Awarding Body and the regulatory body is the Office of Qualifications and Examinations Regulation (Ofqual). The specification for these qualifications has been approved by the Welsh Government for use by centres in Wales and by the Council for the Curriculum Examinations and Assessment (CCEA) for use by centres in Northern Ireland.

This qualification has been accredited onto the Regulated Qualifications Framework (RQF).

Qualification Profile

Qualification title	ProQual Level 2 Diploma in Steel Erecting
Ofqual qualification number	601/5675/2
Level	Level 2
Total qualification time	420 hours
Guided learning hours	205
Assessment	Pass or fail Internally assessed and verified by centre staff External quality assurance by ProQual verifiers
Qualification start date	1/3/15
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 of the Mandatory units; candidates may complete the Additional unit but this will not count towards the qualification.

Mandatory Units			
Unit Reference Number	Unit Title	Unit Level	GLH
K/602/6329	Contribute to effective working relationships in steel erection	2	15
K/602/6332	Work safely and minimise risk in steel erection	2	20
M/602/6333	Identify and deal with hazards and emergencies in steel erection	3	30
T/602/6334	Move structural steel sections under supervision	2	40
A/602/6335	Install structural steelwork components	2	20
J/602/6337	Work safely at height on steel structures	2	40
L/602/6338	Assemble bolted joints in structural steelwork	2	20
Additional Unit			
Unit Reference Number	Unit Title	Unit Level	GLH
R/602/6339	Dismantle structural steelwork components	2	30

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 verifier who are suitably qualified for the specific occupational area. Assessors and internal 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.

Assessment guidance is included to assure consistency.

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.

Learning outcomes and assessment criteria

Unit K/602/6329

Contribute to effective working relationships in steel erection

Learning Outcome - The learner will:	Assessment Criterion - The learner can:
1 Establish and maintain productive working relationships.	1.1 Develop working relationships with different people in the work environment such as: those for whom they are responsible, those to whom they are responsible, clients, colleagues, other tradespersons, suppliers, security/safety personnel.
2 Deal with disagreements in an amicable and constructive way so that effective relationships are maintained.	2.1 Accept the opinions of others in relation to work activities. 2.2 Review different points of view on work related matters in a positive and constructive way in order to maintain working relationships and productivity. 2.3 Apply mediation (in accordance with the individual's responsibilities) in the event of disagreements between third parties in order to maintain productive working relationships.
3 Keep others informed about work plans or activities which affect them.	3.1 Use appropriate types of communication (formal/informal, written, verbal) to clearly relay important information to others.
4 Seek assistance from others in a polite and courteous way without causing undue disruption to normal working activities.	4.1 Approach workplace colleagues / associates in an appropriate manner and at an appropriate time, in order to seek assistance on work related issues.
5 Respond in a timely and positive way when others ask for help or information.	5.1 Prioritise requests for help and information in relation to wider work activities. 5.2 Clarify requests for help and information to identify exactly what is required. 5.3 Ensure appropriate responses are provided within agreed timescales.
6 Understand the importance of creating and maintaining working relationships.	6.1 Describe the individual's responsibilities for creating and maintaining working relationships and explain why it is important to do so.
7 Understand problems affecting relationships.	7.1 Describe different problems that can affect relationships, and the actions that can be taken to deal with specific difficulties.
8 Understand lines of communication and responsibilities.	8.1 Explain the individual's responsibilities and the responsibilities of others within the work location. 8.2 Describe the lines of communication that exist within the individual's working environment and explain the agreed procedure for passing information.

Assessment

Assessment of this unit will be by occupationally competent assessors approved by ProQual. They will gather sufficient evidence of competence from work-based activities on suitable industry sites. Such methods may include discussions with candidates, the use of witness testimony and the interview of witnesses as part of the assessment process.

No mandatory workplace observation is required for the Assessment Criteria.

Unit K/602/6332

Work safely and minimise risk in steel erection

Learning Outcome - The learner will:	Assessment Criterion - The learner can:
1 Understand health and safety legislation, regulations and safe working practices and procedures.	1.1 Explain the requirements of health and safety legislation.
	1.2 Explain the consequences for employers and employees of not fulfilling their legal health and safety responsibilities.
	1.3 Explain the purpose and nature of risk assessments, method statements, and permit to work systems, and the relevance of local procedures and guidance notes.
	1.4 Describe reporting lines and procedures.
2 Understanding personal site safety responsibilities.	2.1 Describe how to recognise health safety training needs, the procedure for requesting training and who to ask for help in understanding the work instructions.
	2.2 Describe how to get information relating to the safe use of equipment and how to ensure the equipment is used safely.
	2.3 Describe how to recognise when personal protective equipment should be used and how to select and use the correct equipment for the work to be undertaken.
	2.4 Describe different types of vibration injuries and explain how they can be prevented.
	2.5 Explain the importance of personal behaviour in maintaining workplace standards.
	2.6 Describe the checks which are needed to make sure that portable electrical appliances are safe to use.
	2.7 Describe what a safe system for electrical isolation should include and why low voltage is generally safer in relation to health and safety.
	2.8 Describe the risks from over head cables and how to control them.
	2.9 Describe what must be done when carrying hazardous substances in vehicles.
	2.10 Describe where asbestos is likely to be found, what should be done if it is thought to have been found and how it is a risk to health.
3 Understand others site safety responsibility.	3.1 Explain who is responsible for ensuring that equipment is checked and safe to use.
	3.2 Describe who is responsible and who must assess the health and safety of people working on a client's site.
	3.3 Describe the legal rights and responsibilities of the appointed safety representatives and the powers of the regulatory inspectors.

Learning Outcome - The learner will:	Assessment Criterion - The learner can:
4 Know first aid procedures.	4.1 Describe the first aid procedures that typically apply in the workplace. 4.2 Describe the aspects of first aid in the workplace that all personnel are expected to know.
5 Understand evacuation procedures.	5.1 Describe how to work safely in an excavation. 5.2 Explain procedures for shutdown and evacuation and state where procedures can be obtained.
6 Understand contingency reporting documentation and systems.	6.1 Describe the contingency reporting documentation and systems that are relevant to workplace activities.
7 Understand appropriate reporting lines and procedures.	7.1 Explain how to comply with the various reporting lines and procedures that apply in the working environment.

Assessment

Assessment of this unit will be by occupationally competent assessors approved by ProQual. They will gather sufficient evidence of competence from discussions with candidates about work-based activities on suitable industry sites. Such methods may include discussions about product evidence and questioning.

No mandatory workplace observation is required for the Assessment Criteria.

Unit M/602/6333

Identify and deal with hazards and emergencies in steel erection

Learning Outcome - The learner will:	Assessment Criterion - The learner can:
1 Recognise industrial processes, tools, equipment and materials that have the potential to cause harm.	1.1 Identify different hazardous processes, tools, equipment and materials which exist in the work environment. 1.2 Identify hazardous industrial processes associated with particular working environments.
2 Check for and identify potential hazards in the workplace in line with agreed and approved procedures.	2.1 Safely check for potential hazards in accordance with agreed and approved procedures. 2.2 Identify potential hazards in the workplace and report in accordance with approved procedures. 2.3 Minimise potential hazards using the criteria and procedures specified in the risk control strategy.
3 Take appropriate action to minimise the risk from hazards and emergencies.	3.1 Take appropriate action upon identification of a hazard or emergency. 3.2 Call for expert help using warning systems as appropriate. 3.3 Follow shut down and evacuation procedures promptly and correctly. 3.4 Deal safely with hazards and emergencies in accordance with organisational policy and procedures. 3.5 Report in accordance with the overall risk control strategy.
4 Understand health and safety legislation, regulations and safe working practices and procedures.	4.1 Explain the requirements of health and safety legislation. 4.2 Explain the purpose and nature of risk assessments, method statements, and permit to work systems, and the relevance of local procedures and guidance notes. 4.3 Describe reporting lines and procedures.
5 Understand hazard spotting and safety assessment methods and techniques.	5.1 State where information on hazard spotting and safety assessment methods and techniques can be found. 5.2 Describe the hazard spotting and safety assessment methods and techniques, which apply in the work location.
6 Understand types of hazards involving processes, tools, equipment and materials.	6.1 Describe common types of hazard associated with processes, tools, equipment and materials. 6.2 State what the individuals' responsibilities are in terms of dealing with and notifying others of hazards.
7 Understand effects of hazards on persons, property and the environment.	7.1 Describe the effects of hazards on persons, property and the environment.
8 Understand actions to minimise risk from hazards.	8.1 Describe the types of actions required to deal with and minimise the risks from different hazards.

Assessment

Assessment of this unit will be by occupationally competent assessors approved by ProQual. They will gather sufficient evidence of competence from work-based activities on suitable industry sites by discussions with candidates. Such methods may include discussions about product evidence and questioning.

Competence at level 3 has to be demonstrated with:

1. Level and extent of responsibility.
2. Type of hazards and risks arising.
3. Hazard checking methods to be used.
4. The type of workplace and environment.
5. Type of action to be taken.

No mandatory workplace observation is required the Assessment Criteria.

Unit T/602/6334

Move structural steel sections under supervision

Learning Outcome - The learner will:	Assessment Criterion - The learner can:
1 Work Safely at all times.	<ul style="list-style-type: none">1.1 Identify a range of hazards.1.2 Take appropriate action to minimise the risk from hazards.1.3 Refer safety related matters to appropriate persons as required.1.4 Work in accordance with relevant sections of the Health and Safety at Work Act and its associated regulations.1.5 Work in accordance with the requirements of risk assessments, permit to work systems.
2 Prepare work area, materials and equipment to carry out the movement structural steel sections.	<ul style="list-style-type: none">2.1 Ensure that the work environment, equipment, construction elements and materials are suitable for the work activities to be undertaken.2.2 Ensure that all necessary service supplies are connected correctly and ready for use.2.3 Ensure the work area and materials are prepared to the required standards for the engineering activity to be completed.2.4 Select, obtain and prepare the appropriate tools and equipment and check they are in a safe and usable condition.2.5 Agree and confirm load movement procedures and method of signalling and communication with relevant personnel.2.6 Report completion of preparations in line with organisational procedures.2.7 Deal promptly and effectively with problems and report those that cannot be solved.
3 Carry out the movement of structural steel sections under supervision.	<ul style="list-style-type: none">3.1 Select the appropriate slinging technique suitable for the characteristics of the loads, the intended lift and approved procedures and practices under supervision.3.2 Identify and clarify difficulties in carrying out the slinging and movement of loads with the appropriate person.3.3 Attach lifting equipment in accordance with the chosen slinging technique.3.4 Confirm the slung load support and balance is satisfactory and the load is secure prior to movement.3.5 Use agreed communication system to accurately direct movement of load destination under supervision.

Learning Outcome - The learner will:	Assessment Criterion - The learner can:
	<p>3.6 Monitor the stability of the load throughout movement.</p> <p>3.7 Ensure the load is positioned, set down, secured before the lifting equipment is relaxed and removed.</p> <p>3.8 Deal promptly and effectively with problems and report those that cannot be solved.</p>
<p>4 Carry out the necessary actions after the movement of structural steel sections.</p>	<p>4.1 Reinststate the work area to a safe condition and correctly dispose of waste materials.</p> <p>4.2 Store re-usable materials and equipment in accordance with appropriate procedures.</p> <p>4.3 Complete all necessary documentation.</p>
<p>5 Understand Health and safety legislation, regulations and safe working practices and procedures.</p>	<p>5.1 Explain the requirements of health and safety legislation.</p> <p>5.2 Explain the purpose and nature of risk assessments, method statements, and permit to work systems, and the relevance of local procedures and guidance notes.</p> <p>5.3 Hazards and conditions that affect the lifting activity.</p> <p>5.4 Describe reporting lines and procedures.</p>
<p>6 Understand the work area, material and equipment preparation and restoration requirements for the movement of structural steel sections.</p>	<p>6.1 Describe work area, material and equipment preparation and restoration requirements and methods.</p> <p>6.2 Explain the consequences of incorrectly preparing or restoring the work areas, material and equipment.</p> <p>6.3 Describe the types of equipment, construction elements used and explain the care and control procedures.</p> <p>6.4 Describe types of lifting equipment in relation to structural steel sections.</p> <p>6.5 Describe lifting gear capabilities.</p> <p>6.6 Describe types of defects and faults and discard criteria for lifting equipment.</p> <p>6.7 Describe coding and identification systems for lifting equipment.</p> <p>6.8 Explain material handling techniques and preparation methods.</p>
<p>7 Understand the tools, terminology, techniques and practices for the movement of structural steel sections.</p>	<p>7.1 Describe how to interpret the instructions for the movement of structural steel sections.</p> <p>7.2 Describe relevant personnel involved with the activity and methods used for signalling and communication.</p>

Learning Outcome - The learner will:	Assessment Criterion - The learner can:
	7.3 Describe methods for slinging in relation to safe working loads and angles of lift.
	7.4 Describe procedures and practices for slinging and signalling for the movement of structural steel sections.

Assessment

Assessment of this unit will be by occupationally competent assessors approved by ProQual. They will gather sufficient evidence of competence either from work-based activities on suitable engineering construction industry sites or from simulated activities approved by ProQual.

The loads are to be standard loads and non complex simple moves and routine lifts.

Mandatory workplace observation is required for Assessment Criteria 2.4, 2.5, 3.1, 3.3, 3.4, 3.5, 3.6 and 3.7.

Unit A/602/6335

Install structural steelwork components

Learning Outcome - The learner will:	Assessment Criterion - The learner can:
1 Work Safely at all times.	1.1 Identify a range of hazards. 1.2 Take appropriate action to minimise the risk from hazards. 1.3 Refer safety related matters to appropriate persons as required. 1.4 Work in accordance with relevant sections of the Health and Safety at Work Act and its associated regulations. 1.5 Work in accordance with the requirements of risk assessments, permit to work systems.
2 Prepare work area, materials and equipment to erect structural steelwork components.	2.1 Ensure that the work environment, equipment, construction elements and materials are suitable for the work activities to be undertaken. 2.2 Ensure that all necessary service supplies are connected correctly and ready for use. 2.3 Ensure the work area is prepared to the required standards for the engineering activity to be completed. 2.4 Obtain and prepare the appropriate tools, equipment and constructional element and check they are in a safe and usable condition. 2.5 Report completion of preparations in line with organisational procedures. 2.6 Deal promptly and effectively with problems and report those that cannot be solved.
3 Erect structural steelwork components.	3.1 Determine what has to be done and how this will be achieved. 3.2 Secure the construction elements in line with the specification. 3.3 Securely fix any necessary temporary support facilities. 3.4 Take appropriate measures to protect the finished construction. 3.5 Check that the installation is complete and that all components are free from damage. 3.6 Deal promptly and effectively with problems and report those that cannot be solved.
4 Carry out the necessary actions after completion of the erection of structural steelwork components.	4.1 Reinstate the work area to a safe condition and correctly dispose of waste materials. 4.2 Store re-usable materials and equipment in accordance with appropriate procedures. 4.3 Complete all necessary documentation.

Learning Outcome - The learner will:	Assessment Criterion - The learner can:
5 Understand Health and safety legislation, regulations and safe working practices and procedures.	5.1 Explain the requirements of health and safety legislation. 5.2 Explain the purpose and nature of risk assessments, method statements, and permit to work systems, and the relevance of local procedures and guidance notes. 5.3 Describe reporting lines and procedures.
6 Understand the work area, material and equipment preparation and restoration requirements for the erection of structural steelwork components.	6.1 Describe work area, material and equipment preparation and restoration requirements and methods. 6.2 Explain the consequences of incorrectly preparing or restoring the work areas, material and equipment. 6.3 Describe the types of equipment, construction elements used and explain the care and control procedures. 6.4 Explain material handling techniques and preparation methods.
7 Understand the tools, terminology, techniques and practices for the erection of structural steelwork components.	7.1 Describe construction component installation methods and techniques. 7.2 Explain methods of providing temporary support during installation. 7.3 Explain the tools and methods used for checking.

Assessment

Assessment of this unit will be by occupationally competent assessors approved by ProQual. They will gather sufficient evidence of competence either from work-based activities on suitable engineering construction industry sites or from simulated activities approved by ProQual.

Mandatory workplace observation is required for Assessment Criteria: 2.3, 2.4, 3.1, 3.2, 3.3 and 3.5

Unit J/602/6337

Work safely at height on steel structures

Learning Outcome - The learner will:	Assessment Criterion - The learner can:
1 Work Safely at all times.	1.1 Identify a range of hazards. 1.2 Take appropriate action to minimise the risk from hazards. 1.3 Refer safety related matters to appropriate persons as required. 1.4 Work in accordance with relevant sections of the Health and Safety at Work Act and its associated regulations. 1.5 Work in accordance with the requirements of risk assessments, permit to work systems.
2 Prepare work area, materials and equipment to work safely at height on steel structures.	2.1 Ensure that the work environment, equipment, and materials are suitable for the work activities to be undertaken. 2.2 Ensure that where appropriate identify and implement site exclusion zones. 2.3 Ensure that work access is suitable and allows the work to be carried out safely. 2.4 Ensure that all necessary service supplies are connected correctly and ready for use. 2.5 Ensure the work area and materials are prepared to the required standards for the engineering activity to be completed. 2.6 Obtain and prepare the appropriate tools and equipment and check they are in a safe and usable condition. 2.7 Report completion of preparations in line with organisational procedures. 2.8 Ensure the communication channels are selected and established which are suitable for the work to be undertaken. 2.9 Deal promptly and effectively with problems and report those that cannot be solved.
3 Work safely at height on steel structures.	3.1 Ensure that access is gained in accordance with laid down procedures. 3.2 Monitor the site to ensure the access method continues to allow you to work safely. 3.3 Implement appropriate safety systems and procedures to minimise the risk of injury to personnel or assets should the lifting or support fail.

Learning Outcome - The learner will:	Assessment Criterion - The learner can:
	3.4 Ensure lifting and working at height is only carried out when environmental and weather conditions are suitable. 3.5 Take appropriate action where deployment of access equipment cannot be executed safely. 3.6 Deal promptly and effectively with problems and report those that cannot be solved.
4 Carry out the necessary actions after completing working safely at height on steel structures.	4.1 Reinstate the work area to a safe condition and correctly dispose of waste materials. 4.2 Store re-usable materials and equipment in accordance with appropriate procedures. 4.3 Complete all necessary documentation.
5 Understand Health and safety legislation, regulations and safe working practices and procedures.	5.1 Explain the requirements of health and safety legislation. 5.2 Explain the purpose and nature of risk assessments, method statements, and permit to work systems, and the relevance of local procedures and guidance notes. 5.3 Describe reporting lines and procedures.
6 Understand the work area, material and equipment preparation and restoration requirements for working safely at height on steel structures.	6.1 Describe work area, material and equipment preparation and restoration requirements and methods. 6.2 Explain the consequences of incorrectly preparing or restoring the work areas, material and equipment. 6.3 Describe the types of equipment, construction element, materials and consumables used and explain the care and control procedures. 6.4 Explain material handling techniques and preparation methods.
7 Understand the tools, equipment, terminology, techniques and practices for working safely at height on steel structures.	7.1 Describe access and egress requirements for working at height. 7.2 Describe how to select and use types of fall arrest equipment.

Assessment

Assessment of this unit will be by occupationally competent assessors approved by ProQual. They will gather sufficient evidence of competence either from work-based activities on suitable engineering construction industry sites or from simulated activities approved by ProQual.

Mandatory workplace observation is required for Assessment Criteria: 2.4, 2.5, 3.1, 3.2, 3.3, 3.4 and 3.5

Unit L/602/6338

Assemble bolted joints in structural steelwork

Learning Outcome - The learner will:	Assessment Criterion - The learner can:
1 Work Safely at all times.	1.1 Identify a range of hazards. 1.2 Take appropriate action to minimise the risk from hazards. 1.3 Refer safety related matters to appropriate persons as required. 1.4 Work in accordance with relevant sections of the Health and Safety at Work Act and its associated regulations. 1.5 Work in accordance with the requirements of risk assessments, permit to work systems.
2 Prepare work area, materials and equipment to assemble bolted joints in structural steelwork.	2.1 Ensure that the work environment, equipment and materials are suitable for the work activities to be undertaken. 2.2 Ensure that all necessary service supplies are connected correctly and ready for use. 2.3 Ensure the work area and materials are prepared to the required standards for the engineering activity to be completed. 2.4 Obtain and prepare the appropriate tools and equipment and check they are in a safe and usable condition. 2.5 Report completion of preparations in line with organisational procedures. 2.6 Deal promptly and effectively with problems and report those that cannot be solved.
3 Assemble bolted joints in structural steelwork.	3.1 Follow the relevant instructions, assembly drawings and specifications. 3.2 Assemble the components in the correct positions in line with appropriate methods and techniques. 3.3 Secure the components using the specified connectors and securing devices. 3.4 Check the completed assembly to ensure all operations are completed and the finished assembly meets the specification. 3.5 Deal promptly and effectively with problems and report those that cannot be solved.
4 Carry out the necessary actions after completing assembling bolted joints in structural steelwork.	4.1 Reinstate the work area to a safe condition and correctly dispose of waste materials. 4.2 Store re-usable materials and equipment in accordance with appropriate procedures. 4.3 Complete all necessary documentation.

Learning Outcome - The learner will:	Assessment Criterion - The learner can:
5 Understand Health and safety legislation, regulations and safe working practices and procedures.	5.1 Explain the requirements of health and safety legislation. 5.2 Explain the purpose and nature of risk assessments, method statements, and permit to work systems, and the relevance of local procedures and guidance notes. 5.3 Describe reporting lines and procedures. 5.4 Describe the hazards and risks associated with the use of powered access equipment
6 Understand the work area, material and equipment preparation and restoration requirements for assembling bolted joints in structural steelwork.	6.1 Describe work area, material and equipment preparation and restoration requirements and methods. 6.2 Explain the consequences of incorrectly preparing or restoring the work areas, material and equipment. 6.3 Describe the types of equipment, materials and consumables used and explain the care and control procedures. 6.4 Describe the conditions for positioning, setting up and using selected power access equipment. 6.5 Explain equipment handling techniques and procedures.
7 Understand the tools, terminology, techniques and practices for assembling bolted joints in structural steelwork.	7.1 Explain the principles, uses and conventions of engineering drawings, and related specifications. 7.2 Describe assembly methods and techniques. 7.3 Describe how to identify defects in products and assets. 7.4 Describe compliance checking methods and techniques. 7.5 Describe quality control procedures and recognition of assembly defects.

Assessment

Assessment of this unit will be by occupationally competent assessors approved by ProQual. They will gather sufficient evidence of competence either from work-based activities on suitable engineering construction industry sites or from simulated activities approved by ProQual.

Mandatory workplace observation is required for Assessment Criteria; 2.4, 3.1, 3.2, 3.3 and 3.4

Unit R/602/6339

Dismantle structural steelwork components

Learning Outcome - The learner will:	Assessment Criterion - The learner can:
1 Work Safely at all times.	1.1 Identify a range of hazards. 1.2 Take appropriate action to minimise the risk from hazards. 1.3 Refer safety related matters to appropriate persons as required. 1.4 Work in accordance with relevant sections of the Health and Safety at Work Act and its associated regulations. 1.5 Work in accordance with the requirements of risk assessments, permit to work systems.
2 Prepare work area, materials and equipment to dismantle structural steelwork components.	2.1 Ensure that the work environment, equipment and materials are suitable for the work activities to be undertaken. 2.2 Ensure that all necessary service supplies are connected correctly and ready for use. 2.3 Ensure the work area and materials are prepared to the required standards for the dismantling activity to be completed. 2.4 Obtain and prepare the appropriate tools and equipment and check they are in a safe and usable condition. 2.5 Report completion of preparations in line with organisational procedures. 2.6 Deal promptly and effectively with problems and report those that cannot be solved.
3 Dismantle structural steelwork components.	3.1 Establish and where necessary support components before removal of securing devices. 3.2 Remove the structural steelwork components in the correct sequence using approved equipment, methods and techniques. 3.3 Identify any damage or defects in any re-useable elements and store them for re-use in an appropriate location. 3.4 Inform the appropriate people when activities are complete. 3.5 Deal promptly and effectively with problems and report those that cannot be solved.
4 Carry out the necessary actions after completing dismantling structural steelwork components.	4.1 Reinstate the work area to a safe condition and correctly dispose of waste elements. 4.2 Store re-usable materials and equipment in accordance with appropriate procedures. 4.3 Complete all necessary documentation.

Learning Outcome - The learner will:	Assessment Criterion - The learner can:
5 Understand Health and safety legislation, regulations and safe working practices and procedures.	5.1 Explain the requirements of health and safety legislation. 5.2 Explain the purpose and nature of risk assessments, method statements, and permit to work systems, and the relevance of local procedures and guidance notes. 5.3 Describe reporting lines and procedures. 5.4 Describe the hazards and risks associated with the use of powered access equipment
6 Understand the work area, material and equipment preparation and restoration requirements for dismantling structural steelwork components.	6.1 Describe work area, material and equipment preparation and restoration requirements and methods. 6.2 Explain the consequences of incorrectly preparing or restoring the work areas, material and equipment. 6.3 Describe the types of equipment, components, materials and consumables used and explain the care and control procedures. 6.4 Explain equipment handling techniques and procedures.
7 Understand the tools, terminology, techniques and practices for dismantling structural steelwork components.	7.1 Describe the types of application of construction components 7.2 Describe construction component dismantling methods and techniques. 7.3 Describe methods and techniques for providing temporary support during dismantling. 7.4 Describe reporting lines and procedures.

Assessment

Assessment of this unit will be by occupationally competent assessors approved by ProQual. They will gather sufficient evidence of competence either from work-based activities on suitable engineering construction industry sites or from simulated activities approved by ProQual.

Mandatory workplace observation is required for Assessment Criteria; 2.4, 3.1, 3.2, 3.3 and 3.4



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