

Specification

Edexcel NVQ/competence-
based qualifications

Edexcel Level 2 NVQ Diploma in Formwork
(Construction) (QCF)

Edexcel Level 3 NVQ Diploma in Formwork
(Construction) (QCF)

For first registration August 2010

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Our specialist suite of qualifications include NVQs, Apprenticeships, WorkSkills, Functional Skills, Foundation Learning, as well as our exclusive range of BTECs, from entry level right through to Higher National Diplomas.

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Authorised by Roger Beard

Prepared by John Crew

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Qualification titles covered by this specification

This specification gives you the information you need to offer the Edexcel NVQ Diplomas in Formwork:

Qualification title	Qualification Accreditation Number (QAN)	Accreditation start date
Edexcel Level 2 NVQ Diploma in Formwork (Construction) (QCF)	500/9153/0	01/08/2010
Edexcel Level 3 NVQ Diploma in Formwork (Construction) (QCF)	500/9154/2	01/08/2010

These qualifications have been accredited within the Qualifications and Credit Framework (QCF) and are eligible for public funding as determined by the Department for Education (DfE) under Sections 96 and 97 of the Learning and Skills Act 2000.

The qualification titles listed above feature in the funding lists published annually by the DfE and the regularly updated website. They will also appear on the Learning Aims Database (LAD), where relevant.

You should use the QCF Qualifications Accreditation Number (QAN), when you wish to seek public funding for your learners. Each unit within a qualification will also have a unique QCF reference number, which is listed in this specification.

The QCF qualification title and unit reference numbers will appear on the learners' final certification document. Learners need to be made aware of this when they are recruited by the centre and registered with Edexcel.

These titles replace the following qualifications from 1st August 2010:

Qualification title	Qualification Accreditation Number (QAN)	Accreditation start date	Accreditation end date
EDEXCEL Level 2 NVQ in Formwork (Construction)	500/5670/0	01/01/2009	31/12/2010
EDEXCEL Level 3 NVQ in Formwork (Construction)	500/5669/4	01/01/2009	31/12/2010

Pre-publication

Key features of the Edexcel NVQs in Formwork

These qualifications:

- are nationally recognised
- are based on the ConstructionSkills National Occupational Standards (NOS). The NOS, Assessment Requirements/strategy and qualification structure(s) are owned by ConstructionSkills.

The Edexcel Level 3 NVQ Diploma in Formwork (Construction) (QCF) has been approved as a component for the ConstructionSkills Apprenticeship framework.

What is the purpose of these qualifications?

These qualifications are appropriate for employees in the Construction and the Built Environment sector working across a broad range of areas. They are designed to assess occupational competence in the workplace where learners are required to demonstrate skills and knowledge to a level required in the construction industry.

Who are these qualifications for?

These qualifications are for all learners aged 16 and above who are capable of reaching the required standards.

Edexcel's policy is that the qualifications should:

- be free from any barriers that restrict access and progression
- ensure equality of opportunity for all wishing to access the qualifications.

What are the benefits of these qualifications to the learner and employer?

These qualifications allow learners to demonstrate competence against National Occupational Standards which are based on the needs of the Construction industry as defined by ConstructionSkills, the Sector Skills Council. As such they contribute to the development of skilled labour in the sector. The Edexcel Level 3 NVQ Diploma in Formwork (Construction) (QCF) may contribute towards the competence element of an Apprenticeship.

What are the potential job roles for those working towards these qualifications?

- Carpenter/Joiner
- Construction Operative.

What progression opportunities are available to learners who achieve these qualifications?

These qualifications allow learners to demonstrate competence in formwork at a level required by the Construction and the Built Environment industry. Learners can progress across the level and size of the Construction and the Built Environment competence and knowledge qualifications and into other occupational areas such as Team Leading and Management.

Further information is available in *Annexe A*.

Pre-publication

What is the qualification structure for the Edexcel Level 2 NVQ Diploma in Formwork (Construction) (QCF)?

Individual units can be found in the *Units* section. The QCF level and credit value are given on the first page of each unit.

Learners must complete all units in Group A, a total of 43 credits.

A - Mandatory units

F/600/7138 - Conforming to general safety in the workplace

J/600/7139 - Conforming to efficient working practices in the workplace

J/600/7142 - Moving and handling resources in the workplace

A/600/6814 - Fabricating and maintaining timber and proprietary formwork systems in the workplace

D/600/6143 - Erecting and striking timber and proprietary formwork in the workplace

What is the qualification structure for the Edexcel Level 3 NVQ Diploma in Formwork (Construction) (QCF)?

Individual units can be found in the *Units* section. The QCF level and credit value are given on the first page of each unit.

Learners must complete all units in Group A, a total of 97 credits.

A - Mandatory units

F/600/7138 - Conforming to general safety in the workplace

J/600/7142 - Moving and handling resources in the workplace

Y/600/7078 - Confirming work activities and resources for an occupational work area in the workplace

D/600/7079 - Developing and maintaining good occupational working relationships in the workplace

R/600/7080 - Confirming the occupational method of work in the workplace

D/600/6143 - Erecting and striking timber and proprietary formwork in the workplace

J/600/6816 - Constructing, maintaining and repairing complex timber and proprietary formwork in the workplace

R/600/6818 - Erecting and striking timber and proprietary formwork for complex structures in the workplace

How are the qualifications graded and assessed?

The overall grade for each qualification is a 'pass'. The learner must achieve all the required units within the specified qualification structure.

To pass a unit the learner must:

- achieve **all** the specified learning outcomes
- satisfy **all** the assessment criteria by providing sufficient and valid evidence for each criterion
- show that the evidence is their own.

The qualifications are designed to be assessed:

- in the workplace or
- in conditions resembling the workplace, as specified in the Assessment Requirements/strategy for the sector, or
- as part of a training programme.

Assessment Requirements/strategy

The Assessment Requirements/strategy for these qualifications have/has been included in *Annexe E*. They have been developed by ConstructionSkills in partnership with employers, training providers, awarding organisations and the regulatory authorities. The assessment strategy includes details on:

- criteria for defining realistic working environments
- roles and occupational competence of assessors, expert witnesses, internal verifiers and standards verifiers
- quality control of assessment
- evidence requirements.

Evidence of competence may come from:

- **current practice** where evidence is generated from a current job role
- a **programme of development** where evidence comes from assessment opportunities built into a learning/training programme whether at or away from the workplace
- the **Recognition of Prior Learning (RPL)** where a learner can demonstrate that they can meet the assessment criteria within a unit through knowledge, understanding or skills they already possess without undertaking a course of learning. They must submit sufficient, reliable and valid evidence for internal and standards verification purposes. RPL is acceptable for accrediting a unit, several units or a whole qualification
- a **combination** of these.

It is important that the evidence is:

Valid	relevant to the standards for which competence is claimed
Authentic	produced by the learner
Current	sufficiently recent to create confidence that the same skill, understanding or knowledge persist at the time of the claim
Reliable	indicates that the learner can consistently perform at this level
Sufficient	fully meets the requirements of the standards.

Types of evidence

To successfully achieve a unit the learner must gather evidence which shows that they have met the required standard in the assessment criteria. Evidence can take a variety of different forms including the following examples:

- direct observation of the learner's performance by their assessor
- outcomes from oral or written questioning
- products of the learner's work
- personal statements and/or reflective accounts
- outcomes from simulation, where permitted by the assessment strategy
- professional discussion
- assignment, project/case studies
- authentic statements/witness testimony
- expert witness testimony
- reflective accounts
- evidence of Recognition of Prior Learning.

Learners can use one piece of evidence to prove their knowledge, skills and understanding across different assessment criteria and/or across different units. It is, therefore, not necessary for learners to have each assessment criterion assessed separately. Learners should be encouraged to reference the assessment criteria to which the evidence relates.

Evidence must be made available to the assessor, internal verifier and Edexcel standards verifier. A range of recording documents is available on the Edexcel website www.edexcel.com. Alternatively, centres may develop their own.

Additional Requirements

The Joint Awarding Body and the SSC Working Practices Group have identified additional requirements that are needed to assess and quality assure qualifications placed on the QCF that use NVQ within their title. These requirements are shown in Annexe D: Additional Requirements for Qualifications that use the title NVQ within the QCF.

Pre-publication

What do you need to offer these qualifications?

Centre recognition

Centres that have not previously offered Edexcel qualifications need to apply for and be granted centre recognition as part of the process for approval to offer individual qualifications. New centres must complete both a centre recognition approval application and a qualification approval application.

Existing centres will be given 'automatic approval' for a new qualification if they are already approved for a qualification that is being replaced by the new qualification and the conditions for automatic approval are met. Centres already holding Edexcel approval are able to gain qualification approval for a different level or different sector via Edexcel online.

Approvals agreement

All centres are required to enter into an approvals agreement which is a formal commitment by the head or principal of a centre to meet all the requirements of the specification and any linked codes or regulations. Edexcel will act to protect the integrity of the awarding of qualifications, if centres do not comply with the agreement. This could result in the suspension of certification or withdrawal of approval.

Quality assurance

Detailed information on Edexcel's quality assurance processes is given in *Annexe B*.

What resources are required to deliver these qualifications?

Each qualification is designed to support learners working in the Construction and the Built Environment sector. Physical resources need to support the delivery of the qualifications and the assessment of the learning outcomes and must be of industry standard. Centres must meet any specific resource requirements outlined in *Annexe E: Assessment Requirements/strategy*. Staff assessing the learner must meet the requirements within the overarching assessment strategy for the sector.

Unit format

Each unit in this specification contains the following sections.

Unit title: Understanding the retail selling process		The unit title is accredited on the QCF and this form of words will appear on the learner's Notification of Performance (NOP).	
Unit reference number: F/502/5807		This NDAQ code is a unique reference number for the unit.	
QCF level: 3		All units and qualifications within the QCF have a level assigned to them, which represents the level of achievement. There are nine levels of achievement, from Entry level to level 8. The level of the unit has been informed by the QCF level descriptors and, where appropriate, the NOS and/or other sector/professional.	
Credit value: 2		All units have a credit value. The minimum credit value is one, and credits can only be awarded in whole numbers. Learners will be awarded credits when they achieve the unit.	
Guided learning hours: 19		A notional measure of the substance of a qualification. It includes an estimate of the time that might be allocated to direct teaching or instruction, together with other structured learning time, such as directed assignments, assessments on the job or supported individual study and practice. It excludes learner-initiated private study.	
Unit summary: The unit provides the learner with an understanding of the retail selling process. It covers the communication process involved in the customer choosing products, the importance of good product knowledge and the part this plays in the selling process. There is also a focus on the legislation that applies in relation to selling and also how sales levels can be maximised.		This provides a summary of the purpose of the unit.	
Assessment Requirements/evidence requirements:		The assessment/evidence requirements are determined by the SSC. Learners must provide evidence for each of the requirements stated in this	
Assessment recording:		This provides a summary of the assessment recording methods to be used for the unit.	
Learning outcomes: 1 Understand how communication techniques can be used to help the customer choose products	Assessment criteria: 1.1 Explain how communication techniques can be used to match product features and benefits to complex customer needs 1.2 Explain how communication techniques can be used to narrow the choice of products to those best suited to the customers needs	Evidence type: O observation Q&A questions and answers P learner products RA reflective accounts/personal statements S simulation PD professional discussion A assignment, project/case studies WT witness testimony EPW expert witness evidence RPL Recognition of Prior Learning	Portfolio reference: The learner should use this box to indicate where the evidence can be obtained eg portfolio page number.
			Date: The learner should give the date when the evidence has been provided.
Learning outcomes state exactly what a learner should know, understand or be able to do as a result of completing a unit.		The assessment criteria of a unit specify the standard a learner is expected to meet to demonstrate that a learning outcome, or a set of learning outcomes, has been achieved.	
		Learners must reference the type of evidence they have and where it is available for quality assurance purposes. The learner can enter the relevant key and a reference. Alternatively, the learner and/or centre can devise their own referencing system.	

Pre-publication

Units

Unit 1: Conforming to general safety in the workplace

Unit reference number: F/600/7138

QCF level: 1

Credit value: 2

Guided learning hours: 7

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in conforming to general safety in the workplace within the relevant sector of industry.

Assessment Requirements/evidence requirements

This unit must be assessed in a work environment and in accordance with:

- the Additional Requirements for Qualifications using the title NVQ in QCF
- the Construction Skills' Consolidated Assessment Strategy for Construction and the Built Environment – Craft, Supervisory, Technical, Managerial and Professional Units and Qualifications with NVQ in the Qualification and Credit Framework (QCF) title and SVQs.

Assessors for this unit must use a combination of the following assessment methods:

- observation of normal work activities within the workplace that clearly confirms the required skills
- questioning the learner on knowledge criteria that clearly confirms the required understanding
- review other forms of evidence that can clearly confirm industry required skills, knowledge and understanding.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of occupational expertise and knowledge of conforming to general safety in the workplace to be effective and reliable when confirming a learner's competence.

Workplace evidence of skills cannot be simulated except for assessment criteria 4.1.

Assessment recording

Learners can enter the types of evidence they are presenting for assessment and the submission date against each assessment criterion. Alternatively, centre documentation should be used to record this information.

Pre-publication

Learning outcomes and assessment criteria

Learning outcomes	Assessment criteria	Evidence type	Portfolio reference	Date
1 Identify hazards associated with the workplace and record and report in accordance with organisational procedures.	1.1 report and/or record hazards within the workplace and occupations at work. 1.2 describe typical hazards associated with the occupational area including noise, resources, environmental, substances and articles, obstructions, storage and work activities. 1.3 state the methods used for reporting hazards in the workplace.			
2 Comply with all workplace safety legislation requirements.	2.1 select and wear general personal protective equipment (PPE) in the work environment in accordance with legislation and organisational requirements. 2.2 state when and why PPE should be used including protective helmets, ear protection, overalls, safety boots and high visibility clothing. 2.3 adhere with statutory requirements, safety notices and warning notices displayed within the workplace. 2.4 describe which types of safety notices are relevant to the occupational area.			
3 Comply with and maintain all organisational security arrangements and approved procedures.	3.1 maintain security of the workplace by following organisational procedures relating to: <ul style="list-style-type: none"> – during the working day – on completion of the day's work – unauthorised personnel (other operatives and the general public) – theft. 3.2 explain how security procedures are implemented within the workplace.			
4 Comply with all emergency	4.1 follow organisational procedures for accidents and			

procedures in accordance with organisational policy.	emergencies associated with the type of work being undertaken and the work environment. 4.2 state the types of fire extinguishers available and describe how and when they are used.			
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Learner name:

Date:

Learner signature:

Date:

Assessor signature:

Date:

Internal verifier signature:

Date:

(if sampled)

Pre-publication

Unit 2: Conforming to efficient working practices in the workplace

Unit reference number: J/600/7139

QCF level: 2

Credit value: 3

Guided learning hours: 10

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in conforming to efficient working practices in the workplace within the relevant sector of industry.

Assessment Requirements/evidence requirements

This unit must be assessed in a work environment and in accordance with:

- the Additional Requirements for Qualifications using the title NVQ in QCF
- the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment – Craft, Supervisory, Technical, Managerial and Professional Units and Qualifications with NVQ in the Qualification and Credit Framework (QCF) title and SVQs.

Assessors for this unit must use a combination of the following assessment methods:

- observation of normal work activities within the workplace that clearly confirms the required skills
- questioning the learner on knowledge criteria that clearly confirms the required understanding
- review other forms of evidence that can clearly confirm industry required skills, knowledge and understanding.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of occupational expertise and knowledge of conforming to efficient working practices to be effective and reliable when confirming a learner's competence.

Workplace evidence of skills cannot be simulated.

Assessment recording

Learners can enter the types of evidence they are presenting for assessment and the submission date against each assessment criterion. Alternatively, centre documentation should be used to record this information.

Pre-publication

Learning outcomes and assessment criteria

Learning outcomes	Assessment criteria	Evidence type	Portfolio reference	Date
1 Communicate with others to establish productive working relationships.	1.1 communicate with colleagues and/or clients to ensure that the work is carried out efficiently. 1.2 explain different methods of communicating with line managers, co-workers and clients. 1.3 give reasons for using certain methods of communication for particular job activities. 1.4 describe the reasons for communicating efficiently and effectively, and the consequences of poor communication.			
2 Follow organisational procedures to maintain good work relationships.	2.1 carry out work in conjunction with other workers and maintain harmonised relationships. 2.2 explain how organisational work procedures are applied to maintain good working relationships with line managers, co-workers and clients. 2.3 state the reasons for effective working relationships with line managers, co-workers and clients. 2.4 describe the consequences for efficient working if relationships with line managers, co-workers and clients are poor.			
3 Maintain appropriate records in accordance with the organisational procedures.	3.1 complete relevant documentation according to the occupation in accordance with organisational procedures. 3.2 describe how to maintain documentation in accordance with organisational procedures relating 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.			

Learner name:

Learner signature:

Assessor signature:

Internal verifier signature:
(if sampled)

Date:

Date:

Date:

Date:

Pre-publication

Unit 3: Moving and handling resources in the workplace

Unit reference number: J/600/7142

QCF level: 2

Credit value: 5

Guided learning hours: 17

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in moving and handling resources in the workplace within the relevant sector of industry.

Assessment Requirements/evidence requirements

This unit must be assessed in a work environment and in accordance with:

- the Additional Requirements for Qualifications using the title NVQ in QCF
- the Construction Skills' Consolidated Assessment Strategy for Construction and the Built Environment – Craft, Supervisory, Technical, Managerial and Professional Units and Qualifications with NVQ in the Qualification and Credit Framework (QCF) title and SVQs.

Assessors for this unit must use a combination of the following assessment methods:

- observation of normal work activities within the workplace that clearly confirms the required skills
- questioning the learner on knowledge criteria that clearly confirms the required understanding
- review other forms of evidence that can clearly confirm industry required skills, knowledge and understanding.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of occupational expertise and knowledge of moving and handling resources to be effective and reliable when confirming a learner's competence.

Workplace evidence of skills cannot be simulated.

Assessment recording

Learners can enter the types of evidence they are presenting for assessment and the submission date against each assessment criterion. Alternatively, centre documentation should be used to record this information.

Pre-publication

Learning outcomes and assessment criteria

Learning outcomes	Assessment criteria	Evidence type	Portfolio reference	Date
1 Know how to comply with given information when moving and storing resources.	1.1 describe their responsibilities under current legislation and official guidance whilst working: – on site, below ground level, at height, with tools and equipment, with materials and substances and by manual handling and mechanical lifting. 1.2 describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative. 1.3 state what the accident reporting procedures are and who is responsible for making the reports.			
2 Maintain safe working practices when moving and handling resources.	2.1 use personal protective equipment (PPE) safely to carry out the activity in accordance with legislation and organisational requirements when moving and handling resources. 2.2 explain why and when personal protective equipment (PPE) should be used, relating to moving and handling resources, and the types, purpose and limitations of each type. 2.3 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. 2.4 state the types of fire extinguishers available and describe how and when they are used.			
3 Select the resources to be stored and ensure they conform to the given information.	3.1 describe the characteristics, quality, uses, limitations and defects associated with the resources in relation to: – materials, components, fixings, fittings and ancillary items			

	<ul style="list-style-type: none"> – hand and/or powered tools and equipment – internally or externally supplied. <p>3.2 select the resources to be moved and/or stored for own work and that of the team, in relation to materials, components, fixings, tools and equipment.</p> <p>3.3 state how the resources should be handled and how problems associated with the resources are reported.</p> <p>3.4 state why organisational procedures are developed and how they are used.</p> <p>3.5 outline potential hazards associated with the resources and method of work.</p>			
4 Comply with the given information to prevent damage to the product and surrounding environment when moving and handling resources.	<p>4.1 protect the product and the surrounding area from damage.</p> <p>4.2 minimise damage and maintain a clean work space.</p> <p>4.3 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.</p> <p>4.4 dispose of waste packaging in accordance with legislation.</p> <p>4.5 state why the disposal of waste should be carried out in relation to the work and how it is achieved.</p>			
5 Comply with the given product information to move and handle resources to the required guidance.	<p>5.1 demonstrate the following work skills when moving and handling resources:</p> <ul style="list-style-type: none"> – moving, positioning, securing and using lifting aids and kinetic lifting techniques. <p>5.2 handle and store occupational resources to meet product information and/or organisational requirements relating to at least three of the following:</p> <ul style="list-style-type: none"> – sheet material – loose material – bagged or wrapped material – fragile material – components – liquid material. 			

	<p>5.3 describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them, for:</p> <ul style="list-style-type: none"> – manual handling and storage – maintenance of lifting aids. <p>5.4 safely use and store lifting aids and equipment.</p> <p>5.5 state the needs of other occupations when moving and handling resources.</p>			
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Learner name:

Date:

Learner signature:

Date:

Assessor signature:

Date:

Internal verifier signature:

Date:

(if sampled)

Pre-publication

Unit 4: Fabricating and maintaining timber and proprietary formwork systems in the workplace

Unit reference number: A/600/6814

QCF level: 2

Credit value: 15

Guided learning hours: 50

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in fabricating and maintaining timber and proprietary formwork systems in the workplace within the relevant sector of industry.

Assessment Requirements/evidence requirements

This unit must be assessed in a work environment and in accordance with:

- the Additional Requirements for Qualifications using the title NVQ in QCF
- the ConstructionSkills 'Consolidated Assessment Strategy for Construction and the Built Environment – Craft, Supervisory, Technical, Managerial and Professional Units and Qualifications with NVQ in the Qualification and Credit Framework (QCF) title and SVQs.

Assessors for this unit must use a combination of the following assessment methods:

- observation of normal work activities within the workplace that clearly confirms the required skills
- questioning the learner on knowledge criteria that clearly confirms the required understanding
- review other forms of evidence that can clearly confirm industry required skills, knowledge and understanding.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of occupational expertise and knowledge of fabricating and maintaining timber and proprietary formwork systems to be effective and reliable when confirming a learner's competence.

Workplace evidence of skills cannot be simulated.

Assessment recording

Learners can enter the types of evidence they are presenting for assessment and the submission date against each assessment criterion. Alternatively, centre documentation should be used to record this information.

Pre-publication

Learning outcomes and assessment criteria

Learning outcomes	Assessment criteria	Evidence type	Portfolio reference	Date
1 Interpret the given information relating to the work and resources when fabricating and maintaining timber and proprietary formwork systems.	1.1 interpret and extract information from drawings, specifications, method statements, schedules, manufacturers' and suppliers' information. 1.2 comply with information and/or instructions derived from risk assessments and method statements. 1.3 state the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented. 1.4 describe different types of information, their source and how they are interpreted in relation to: – drawings, specifications, method statements, schedules, manufacturers' and suppliers' information and current regulations.			
2 Know how to comply with relevant legislation and official guidance when fabricating and maintaining timber and proprietary formwork systems.	2.1 describe their responsibilities under current legislation and official guidance whilst working: – in the workplace, below ground level, at height, in confined spaces, 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 state what the accident reporting procedures are and who is responsible for making reports.			
3 Maintain safe working practices when fabricating and maintaining timber and proprietary formwork systems.	3.1 use personal protective equipment (PPE) and access equipment safely to carry out the activity in accordance with legislation and organisational requirements when fabricating and maintaining timber and proprietary			

	<p>formwork systems.</p> <p>3.2 explain why and when personal protective equipment (PPE) should be used, relating to fabricating and maintaining timber and proprietary formwork systems, and the types, purpose and limitations of each type.</p> <p>3.3 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.</p>			
<p>4 Select the required quantity and quality of resources for the methods of work to fabricate and maintain timber and proprietary formwork systems.</p>	<p>4.1 describe the characteristics, quality, uses, limitations and defects associated with the resources in relation to:</p> <ul style="list-style-type: none"> – timber, timber sheets and non-timber based sheet material – proprietary formwork and associated items – tie systems – soldiers and walings – protective coatings – fixtures and fittings – access equipment – hand powered tools and equipment. <p>4.2 select resources associated with own work in relation to materials, components, fixings, tools and equipment.</p> <p>4.3 state how the resources should be used correctly, how problems associated with the resources are reported and how the organisational procedures are used.</p> <p>4.4 outline potential hazards associated with the resources and method of work.</p> <p>4.5 describe how to calculate quantity, length, area and wastage associated with the method/procedure to fabricate and maintain timber and proprietary formwork systems.</p>			
<p>5 Minimise the risk of damage to the work and surrounding area when fabricating and maintaining timber and proprietary formwork</p>	<p>5.1 protect the work and its surrounding area from damage.</p> <p>5.2 minimise damage and maintain a clean work space.</p> <p>5.3 describe how to protect work from damage and the</p>			

systems.	<p>purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.</p> <p>5.4 dispose of waste in accordance with legislation.</p> <p>5.5 state why the disposal of waste should be carried out in relation to the work.</p>			
6 Complete the work within the allocated time when fabricating and maintaining timber and proprietary formwork systems.	<p>6.1 demonstrate completion of the work within the allocated time.</p> <p>6.2 state the purpose of the work programme and explain why deadlines should be kept in relation to:</p> <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. 			
7 Comply with the given contract information to fabricate and maintain timber and proprietary formwork systems to the required specification.	<p>7.1 demonstrate the following work skills when fabricating and maintaining timber and proprietary formwork systems:</p> <ul style="list-style-type: none"> – measuring, marking out, cutting, positioning, securing, finishing, removing and storing. <p>7.2 fabricate and maintain timber formwork systems to given working instructions:</p> <ul style="list-style-type: none"> – panels – make ups – box-outs – stop ends – bolt boxes. <p>7.3 assemble and maintain proprietary formwork systems to given working instructions with the addition of the following fabrications:</p> <ul style="list-style-type: none"> – proprietary panels – make ups – box-outs – stop ends – bolt boxes. <p>7.4 describe how to apply safe work practices, follow</p>			

	<p>procedures, report problems and establish the authority needed to rectify them, to:</p> <ul style="list-style-type: none"> – fabricate formwork systems for columns, walls, beams, soffits, kickers and pre-cast units – maintain formwork systems for columns, walls, beams, soffits, kickers and pre-cast units – position and attach soldiers and walings – construct make ups, box-outs, bolt boxes and stop ends – position and secure tie systems – apply protective coatings – recognise when formwork needs repair – attach safe lifting provision – lift and move fabricated timber and proprietary formwork – use hand tools, power tools and equipment – work at height – use access equipment. <p>7.5 safely use and store hand tools, portable power tools and ancillary equipment.</p> <p>7.6 state the needs of other occupations and how to communicate within a team when fabricating and maintaining timber and proprietary formwork systems.</p> <p>7.7 describe how to maintain the tools and equipment used when fabricating and maintaining timber and proprietary formwork systems.</p>			
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Unit 5: Erecting and striking timber and proprietary formwork in the workplace

Unit reference number: D/600/6143

QCF level: 2

Credit value: 18

Guided learning hours: 60

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to be deemed competent when erecting and striking timber and proprietary formwork in the workplace.

Assessment Requirements/evidence requirements

This unit must be assessed in a work environment and in accordance with:

- the Additional Requirements for Qualifications using the title NVQ in QCF
- the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment – Craft, Supervisory, Technical, Managerial and Professional Units and Qualifications with NVQ in the Qualification and Credit Framework (QCF) title and SVQs.
- relevant ConstructionSkills Rules of Combination.

Assessors for this unit must use a combination of the following assessment methods:

- observation of normal work activities within the workplace that clearly confirms the required skills
- questioning the learner on knowledge criteria that clearly confirms the required understanding
- review other forms of evidence that can clearly confirm industry required skills, knowledge and understanding.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of occupational expertise and knowledge of erecting and striking timber and proprietary formwork to be effective and reliable when confirming a learner's competence.

Workplace evidence of skills cannot be simulated.

Assessment recording

Learners can enter the types of evidence they are presenting for assessment and the submission date against each assessment criterion. Alternatively, centre documentation should be used to record this information.

Pre-publication

Learning outcomes and assessment criteria

Learning outcomes	Assessment criteria	Evidence type	Portfolio reference	Date
1 Interpret the given information relating to the work and resources when erecting and striking timber and proprietary formwork.	1.1 interpret and extract information from drawings, specifications, method statements, schedules, manufacturers' and suppliers' information. 1.2 comply with information and/or instructions derived from risk assessments and method statements. 1.3 state the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented. 1.4 describe different types of information, their source and how they are interpreted in relation to: – drawings, specifications, method statements, schedules, manufacturers' and suppliers' information.			
2 Know how to comply with relevant legislation and official guidance when erecting and striking timber and proprietary formwork.	2.1 describe their responsibilities under current legislation and official guidance whilst working: – in the workplace, below ground level, at height, in confined spaces, 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 state what the accident reporting procedures are and who is responsible for making reports.			
3 Maintain safe working practices when erecting and striking timber and proprietary formwork.	3.1 use personal protective equipment (PPE) and access equipment safely to carry out the activity in accordance with legislation and organisational requirements when erecting and striking timber and proprietary formwork.			

	<p>3.2 explain why and when personal protective equipment (PPE) relating to erecting and striking timber and proprietary formwork should be used, and the types, purpose and limitations of each type.</p> <p>3.3 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.</p>			
<p>4 Select the required quantity and quality of resources for the methods of work to erect and strike timber and proprietary formwork.</p>	<p>4.1 describe the characteristics, quality, uses, limitations and defects associated with the resources in relation to:</p> <ul style="list-style-type: none"> – timber, timber sheets and non-timber based sheet material – proprietary formwork and associated items – tie systems – soldiers and walings – protective coatings – fixtures and fittings – access equipment – hand, powered tools and equipment. <p>4.2 select resources associated with own work in relation to materials, components, fixings, tools and equipment.</p> <p>4.3 state how the resources should be used correctly, how problems associated with the resources are reported and how the organisational procedures are used.</p> <p>4.4 identify hazards associated with the resources and method of work.</p> <p>4.5 explain how to calculate quantity, length, area and wastage associated with the method/procedure to erect and strike timber and proprietary formwork.</p>			
<p>5 Minimise the risk of damage to the work and surrounding area when erecting and striking timber and proprietary formwork.</p>	<p>5.1 protect the work and its surrounding area from damage.</p> <p>5.2 minimise damage and maintain a clean work space.</p> <p>5.3 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather</p>			

	<p>conditions.</p> <p>5.4 dispose of waste in accordance with legislation.</p> <p>5.5 state why the disposal of waste should be carried out in relation to the work.</p>			
6 Complete the work within the allocated time when erecting and striking timber and proprietary formwork.	<p>6.1 demonstrate completion of the work within the allocated time.</p> <p>6.2 state the purpose of the work programme and explain why deadlines should be kept in relation to:</p> <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. 			
7 Comply with the given contract information to erect and strike timber and proprietary formwork to the required specification.	<p>7.1 demonstrate the following work skills when erecting and striking timber and proprietary formwork:</p> <ul style="list-style-type: none"> – measuring, marking out, cutting, positioning, securing, finishing, removing and storing. <p>7.2 erect and strike timber formwork to given working instructions for at least two of the following:</p> <ul style="list-style-type: none"> – walls – columns – beams – soffits – bases. <p>7.3 erect and strike proprietary formwork systems to given working instructions for at least one of the following:</p> <ul style="list-style-type: none"> – climbing – jumping – slip form – panel systems – soldiers and/or walings. <p>7.4 describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them, to:</p> <ul style="list-style-type: none"> – erect and strike formwork for walls, columns, beams, 			

	<ul style="list-style-type: none"> soffits, bases, kickers, stop ends and pre-cast units – erect and strike proprietary climbing, jumping, slip form and panel systems – attach and remove soldiers and walings – attach and remove safe lifting provision – position and strike box outs and bolt boxes, grout checks, level controls, angle fillets and features – position, secure and remove tie systems – apply release agents – identify differences in concrete pressure – use hand tools, power tools and equipment – work at height – use access equipment. <p>7.5 safely use and store hand tools and/or portable power tools and ancillary equipment.</p> <p>7.6 state the needs of other occupations and how to communicate within a team when erecting and striking timber and proprietary formwork.</p> <p>7.7 describe how to maintain tools and equipment used to erect and strike timber and proprietary formwork.</p>			
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Unit 6: Confirming work activities and resources for an occupational work area in the workplace

Unit reference number: Y/600/7078

QCF level: 3

Credit value: 10

Guided learning hours: 33

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in confirming work activities and resources for an occupational work area in the workplace within the relevant sector of industry.

Assessment Requirements/evidence requirements

This unit must be assessed in a work environment and in accordance with:

- the Additional Requirements for Qualifications using the title NVQ in QCF
- the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment – Craft, Supervisory, Technical, Managerial and Professional Units and Qualifications with NVQ in the Qualification and Credit Framework (QCF) title and SVQs.

Assessors for this unit must use a combination of the following assessment methods:

- observation of normal work activities within the workplace that clearly confirms the required skills
- questioning the learner on knowledge criteria that clearly confirms the required understanding
- review other forms of evidence that can clearly confirm industry required skills, knowledge and understanding.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of occupational expertise and knowledge of confirming work activities and resources for an occupational work area to be effective and reliable when confirming a learner's competence.

Workplace evidence of skills cannot be simulated.

Assessment recording

Learners can enter the types of evidence they are presenting for assessment and the submission date against each assessment criterion. Alternatively, centre documentation should be used to record this information.

Pre-publication

Learning outcomes and assessment criteria

Learning outcomes	Assessment criteria	Evidence type	Portfolio reference	Date
1 Identify work activities, assess required resources and plan the programme of work.	1.1 identify and allocate the following required types of resources needed for the specific type of work: <ul style="list-style-type: none"> – occupations associated with the work – tools, plant and/or ancillary equipment – materials and components. 1.2 prepare a programme of work utilising the resources required for the work activities. 1.3 explain the types of work relative to the occupational area and how to identify different work activities. 1.4 explain methods of assessing the resources needed from a range of available information. 1.5 explain the typical information used, and the different methods of preparation, to create a work programme relative to the occupational area.			
2 Obtain clarification and advice where the resources required are not available.	2.1 demonstrate the procedures to be taken in order to confirm or seek advice on what alternatives can be used for the work when required resources are not available. 2.2 explain the different sources and methods that can be used to obtain clarification and advice when the required resources are not available.			
3 Evaluate the work activities and the requirements of any significant external factors against the project requirements.	3.1 assess progress of work against project requirements, taking into account: <ul style="list-style-type: none"> – other occupations – resources – weather conditions – health and safety requirements. 3.2 explain the factors that determine project requirements and the different methods of evaluating the			

	<p>work activities against project requirements.</p> <p>3.3 explain what constitutes external factors and the possible effects that significant external factors can have on projects.</p>			
<p>4 Identify work activities which influence each other and make the best use of the resources available.</p>	<p>4.1 evaluate relevant influencing work activities and identify possibilities to rationalise the following resources:</p> <ul style="list-style-type: none"> – occupations associated with the work – tools, plant and/or ancillary equipment – materials and components. <p>4.2 explain different methods and sources that identify which work activities influence each other.</p> <p>4.3 describe factors that determine how long each work activity will take and the sequence of the activities.</p>			
<p>5 Identify changed circumstances that require alterations to the work programme and justify them to decision makers.</p>	<p>5.1 evaluate project progress against the work programme to identify changed circumstances.</p> <p>5.2 inform line management on the type and extent of changes required to the work programme.</p> <p>5.3 explain the methods of identify possible alterations to the work programme to meet changed circumstances.</p> <p>5.4 explain how to assess contractual/work effects resulting from alterations to the work programme.</p> <p>5.5 explain the methods of justifying to decision makers the effects resulting from alterations to the work programme.</p>			

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Unit 7: Developing and maintaining good occupational working relationships in the workplace

Unit reference number: D/600/7079

QCF level: 5

Credit value: 8

Guided learning hours: 27

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in developing and maintaining good occupational working relationships in the workplace within the relevant sector of industry.

Assessment Requirements/evidence requirements

This unit must be assessed in a work environment and in accordance with:

- the Additional Requirements for Qualifications using the title NVQ in QCF
- the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment – Craft, Supervisory, Technical, Managerial and Professional Units and Qualifications with NVQ in the Qualification and Credit Framework (QCF) title and SVQs.

Assessors for this unit must use a combination of the following assessment methods:

- observation of normal work activities within the workplace that clearly confirms the required skills
- questioning the learner on knowledge criteria that clearly confirms the required understanding
- review other forms of evidence that can clearly confirm industry required skills, knowledge and understanding.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of occupational expertise and knowledge of developing and maintaining good occupational working relationships to be effective and reliable when confirming a learner's competence.

Workplace evidence of skills cannot be simulated.

Assessment recording

Learners can enter the types of evidence they are presenting for assessment and the submission date against each assessment criterion. Alternatively, centre documentation should be used to record this information.

Pre-publication

Learning outcomes and assessment criteria

Learning outcomes	Assessment criteria	Evidence type	Portfolio reference	Date
1 Develop, maintain and encourage working relationships to promote good will and trust.	1.1 provide information and advice about occupational work activities and associated occupations to relevant people. 1.2 explain methods and techniques on how to maintain and encourage working relationships that promote goodwill and trust with relevant people. 1.3 explain the factors that encourage goodwill and trust and how they are developed.			
2 Inform relevant people about work activities in an appropriate level of detail, with the appropriate level of urgency.	2.1 communicate on the following work activity information to relevant people following organisational procedures: – appropriate timescales – health and safety requirements – co-ordination of work procedures. 2.2 explain the factors of, methods and different techniques of informing relevant people about the work activities. 2.3 describe the effects of not informing relevant people with the expected level of urgency. 2.4 list the people who would need to be informed about the work activities and describe the appropriate level of detail they would expect to receive. 2.5 state the factors that constitute work activities.			
3 Offer advice and help to relevant people about work activities and encourage questions, requests for clarification and comments.	3.1 advise relevant people about the different methods of occupational work activities in order to achieve the required outcome. 3.2 explain the techniques of encouraging questions, requests for clarification and comments.			

	3.3 list the types of advice available and describe how to offer advice and help to people about the work activity.			
4 Clarify proposals with relevant people and discuss alternative suggestions.	4.1 undertake regular discussions with relevant people about the occupational work activity and other occupations. 4.2 explain the methods of clarifying alternative proposals with relevant people. 4.3 describe the methods of suggesting alternative proposals.			
5 Resolve differences of opinion in ways that minimise offence and maintain goodwill, trust and respect.	5.1 discuss and agree work activities with relevant people where differences of opinion occur of the proposed method of work. 5.2 explain the methods and techniques of resolving differences of opinion in ways that minimise offence and maintain goodwill, trust and respect.			

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Unit 8: Confirming the occupational method of work in the workplace

Unit reference number: R/600/7080

QCF level: 3

Credit value: 11

Guided learning hours: 37

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in confirming the occupational method of work in the workplace within the relevant sector of industry.

Assessment Requirements/evidence requirements

This unit must be assessed in a work environment and in accordance with:

- the Additional Requirements for Qualifications using the title NVQ in QCF
- the Construction Skills' Consolidated Assessment Strategy for Construction and the Built Environment – Craft, Supervisory, Technical, Managerial and Professional Units and Qualifications with NVQ in the Qualification and Credit Framework (QCF) title and SVQs.

Assessors for this unit must use a combination of the following assessment methods:

- observation of normal work activities within the workplace that clearly confirms the required skills
- questioning the learner on knowledge criteria that clearly confirms the required understanding
- review other forms of evidence that can clearly confirm industry required skills, knowledge and understanding.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of occupational expertise and knowledge of confirming the occupational method of work to be effective and reliable when confirming a learner's competence.

Workplace evidence of skills cannot be simulated.

Assessment recording

Learners can enter the types of evidence they are presenting for assessment and the submission date against each assessment criterion. Alternatively, centre documentation should be used to record this information.

Pre-publication

Learning outcomes and assessment criteria

Learning outcomes	Assessment criteria	Evidence type	Portfolio reference	Date
1 Assess available project data accurately to determine the occupational method of work.	1.1 interpret and extract information from drawings, specifications, schedules, manufacturer's information, methods of work, risk assessments and programmes of work. 1.2 explain the factors that determines project data and how that data can be summarised. 1.3 explain the different methods of assessing available project data and interpreting work methods.			
2 Obtain further information from alternative sources in cases where the available project data is insufficient.	2.1 collect and collate information from alternative sources to clarify the work that has to be carried out. 2.2 outline the types of alternative sources when available project data is insufficient. 2.3 explain different techniques and methods of obtaining additional information from alternative sources.			
3 Identify work methods that makes best use of resources and meet project, statutory and contractual requirements.	3.1 examine potential work methods that meet health and safety, technical and/or project requirements in order to carry out the occupational work activity. 3.2 explain the different methods of identifying work methods against project and technical criteria with consideration of the most effective use of resources and compliance with project, statutory and contractual requirements.			
4 Confirm and communicate the selected work method to relevant personnel.	4.1 inform relevant people on the selected occupational work method after confirmation that the method meets project requirements. 4.2 describe the different techniques and methods of communicating work methods to others.			

	4.3 outline the factors that allow confirmation of work methods.			
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Pre-publication

Unit 9: Constructing, maintaining and repairing complex timber and proprietary formwork in the workplace

Unit reference number: J/600/6816

QCF level: 3

Credit value: 20

Guided learning hours: 66

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in constructing, maintaining and repairing complex timber and proprietary formwork in the workplace within the relevant sector of industry.

Assessment Requirements/evidence requirements

This unit must be assessed in a work environment and in accordance with:

- the Additional Requirements for Qualifications using the title NVQ in QCF
- the ConstructionSkills 'Consolidated Assessment Strategy for Construction and the Built Environment – Craft, Supervisory, Technical, Managerial and Professional Units and Qualifications with NVQ in the Qualification and Credit Framework (QCF) title and SVQs.

Assessors for this unit must use a combination of the following assessment methods:

- observation of normal work activities within the workplace that clearly confirms the required skills
- questioning the learner on knowledge criteria that clearly confirms the required understanding
- review other forms of evidence that can clearly confirm industry required skills, knowledge and understanding.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of occupational expertise and knowledge of constructing, maintaining and repairing complex timber and proprietary formwork to be effective and reliable when confirming a learner's competence.

Workplace evidence of skills cannot be simulated.

Assessment recording

Learners can enter the types of evidence they are presenting for assessment and the submission date against each assessment criterion. Alternatively, centre documentation should be used to record this information.

Pre-publication

Learning outcomes and assessment criteria

Learning outcomes	Assessment criteria	Evidence type	Portfolio reference	Date
1 Interpret the given information relating to the work and resources when constructing, maintaining and repairing complex timber and proprietary formwork	1.1 interpret and extract information from drawings, specifications, method statements, schedules, manufacturers' and suppliers' information. 1.2 comply with information and/or instructions derived from risk assessments and method statements. 1.3 state the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented. 1.4 describe different types of information, their source and how they are interpreted in relation to: – drawings, specifications, method statements, schedules, manufacturers' and suppliers' information.			
2 Know how to comply with relevant legislation and official guidance when constructing, maintaining and repairing complex timber and proprietary formwork.	2.1 describe their responsibilities under current legislation and official guidance whilst working: – in the workplace, below ground level, at height, in confined spaces, 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 state what the accident reporting procedures are and who is responsible for making reports.			
3 Maintain safe working practices when constructing, maintaining and repairing complex timber and proprietary formwork.	3.1 use personal protective equipment (PPE) and access equipment safely to carry out the activity in accordance with legislation and organisational requirements when constructing, maintaining and repairing complex timber and proprietary formwork.			

	<p>3.2 explain why and when personal protective equipment (PPE) should be used, relating to constructing, maintaining and repairing complex timber and proprietary formwork, and the types, purpose and limitations of each type.</p> <p>3.3 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.</p>			
<p>4 Select the required quantity and quality of resources for the methods of work to construct, maintain and repair complex timber and proprietary formwork.</p>	<p>4.1 describe the characteristics, quality, uses, limitations and defects associated with the resources in relation to:</p> <ul style="list-style-type: none"> – timber, timber sheets and non-timber based sheet material – tie systems – soldiers and walings – protective coatings – fixtures and fittings – access equipment – hand and powered tools, and equipment. <p>4.2 select resources associated with own work in relation to materials, components, fixings, tools and equipment.</p> <p>4.3 state how the resources should be used correctly, how problems associated with the resources are reported and how the organisational procedures are used.</p> <p>4.4 outline potential hazards associated with the resources and method of work.</p> <p>4.5 describe how to calculate quantity, length, area and wastage associated with the method/procedure to construct, maintain and repair complex timber and proprietary formwork.</p>			
<p>5 Minimise the risk of damage to the work and surrounding area when constructing, maintaining and repairing complex timber and proprietary formwork.</p>	<p>5.1 protect the work and its surrounding area from damage.</p> <p>5.2 minimise damage and maintain a clean work space.</p> <p>5.3 describe how to protect work from damage and the purpose of protection in relation to general workplace</p>			

	<p>activities, other occupations and adverse weather conditions.</p> <p>5.4 dispose of waste in accordance with legislation.</p> <p>5.5 state why the disposal of waste should be carried out in relation to the work.</p>			
<p>6 Complete the work within the allocated time when constructing, maintaining and repairing complex timber and proprietary formwork.</p>	<p>6.1 demonstrate completion of the work within the allocated time.</p> <p>6.2 state the purpose of the work programme and explain why deadlines should be kept in relation to:</p> <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. 			
<p>7 Comply with the given contract information to construct, maintain and repair complex timber and proprietary formwork to the required specification.</p>	<p>7.1 demonstrate the following work skills when constructing, maintaining and repairing complex timber and proprietary formwork:</p> <ul style="list-style-type: none"> – measuring, marking out, cutting, fitting, positioning, fixing, finishing, removing and securing. <p>7.2 construct, fabricate, maintain and repair formwork components to given working instructions in both timber and proprietary systems for at least two of the following:</p> <ul style="list-style-type: none"> – stairs – landings – ramps – inclined structures – curved or circular structures – pre-cast forms. <p>7.3 describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them, to:</p> <ul style="list-style-type: none"> – construct and maintain timber and proprietary formwork systems – fabricate timber formwork components for stairs, landings, ramps, inclined structures, curved or circular structures 			

	<ul style="list-style-type: none"> – identify when proprietary formwork requires repair – maintain and carry out repairs to timber formwork components – construct box-outs, bolt boxes and stop ends – identify differences in concrete pressure – attach soldiers and walings – attach and remove safe lifting provision – position and fix tie systems – position water bars – apply protective coatings – use hand tools, power tools and equipment – work at height – use access equipment. <p>7.4 safely use and store hand tools, portable power tools and ancillary equipment.</p> <p>7.5 state the needs of other occupations and how to communicate within a team when constructing, maintaining and repairing complex timber and proprietary formwork.</p> <p>7.6 describe how to maintain the tools and equipment used when constructing, maintaining and repairing complex timber and proprietary formwork.</p>			
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Unit 10: Erecting and striking timber and proprietary formwork for complex structures in the workplace

Unit reference number: R/600/6818

QCF level: 3

Credit value: 23

Guided learning hours: 77

Unit summary

The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence in erecting and striking timber and proprietary formwork for complex structures in the workplace within the relevant sector of industry.

Assessment Requirements/evidence requirements

This unit must be assessed in a work environment and in accordance with:

- the Additional Requirements for Qualifications using the title NVQ in QCF
- the ConstructionSkills 'Consolidated Assessment Strategy for Construction and the Built Environment – Craft, Supervisory, Technical, Managerial and Professional Units and Qualifications with NVQ in the Qualification and Credit Framework (QCF) title and SVQs.

Assessors for this unit must use a combination of the following assessment methods:

- observation of normal work activities within the workplace that clearly confirms the required skills
- questioning the learner on knowledge criteria that clearly confirms the required understanding
- review other forms of evidence that can clearly confirm industry required skills, knowledge and understanding.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of occupational expertise and knowledge of erecting and striking timber and proprietary formwork for complex structures to be effective and reliable when confirming a learner's competence.

Workplace evidence of skills cannot be simulated.

Assessment recording

Learners can enter the types of evidence they are presenting for assessment and the submission date against each assessment criterion. Alternatively, centre documentation should be used to record this information.

Pre-publication

Learning outcomes and assessment criteria

Learning outcomes	Assessment criteria	Evidence type	Portfolio reference	Date
1 Interpret the given information relating to the work and resources when erecting and striking timber and proprietary formwork for complex structures.	1.1 interpret and extract information from drawings, specifications, method statements, schedules, manufacturers' and suppliers' information. 1.2 comply with information and/or instructions derived from risk assessments and method statements. 1.3 state the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented. 1.4 describe different types of information, their source and how they are interpreted in relation to: – drawings, specifications, method statements, schedules, manufacturers' and suppliers' information.			
2 Know how to comply with relevant legislation and official guidance when erecting and striking timber and proprietary formwork for complex structures.	2.1 describe their responsibilities under current legislation and official guidance whilst working: – in the workplace, below ground level, at height, in confined spaces, 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 state what the accident reporting procedures are and who is responsible for making reports.			
3 Maintain safe working practices when erecting and striking timber and proprietary formwork for complex structures.	3.1 use personal protective equipment (PPE) and access equipment safely to carry out the activity in accordance with legislation and organisational requirements when erecting and striking timber and proprietary formwork for complex structures.			

	<p>3.2 explain why and when personal protective equipment (PPE) should be used, relating to erecting and striking timber and proprietary formwork for complex structures, and the types, purpose and limitations of each type.</p> <p>3.3 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.</p>			
<p>4 Select the required quantity and quality of resources for the methods of work to erect and strike timber and proprietary formwork for complex structures.</p>	<p>4.1 describe the characteristics, quality, uses, limitations and defects associated with the resources in relation to:</p> <ul style="list-style-type: none"> – timber, timber sheets and non-timber based sheet material – tie systems – soldiers and walings – protective coatings – fixtures and fittings – access equipment – hand and powered tools, and equipment. <p>4.2 select resources associated with own work in relation to materials, components, fixings, tools and equipment.</p> <p>4.3 state how the resources should be used correctly, how problems associated with the resources are reported and how the organisational procedures are used.</p> <p>4.4 outline potential hazards associated with the resources and method of work.</p> <p>4.5 describe how to calculate quantity, length, area and wastage associated with the method/procedure to erect and strike timber and proprietary formwork for complex structures.</p>			
<p>5 Minimise the risk of damage to the work and surrounding area when erecting and striking timber and proprietary formwork for complex structures.</p>	<p>5.1 protect the work and its surrounding area from damage.</p> <p>5.2 minimise damage and maintain a clean work space.</p> <p>5.3 describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather</p>			

	<p>conditions.</p> <p>5.4 dispose of waste in accordance with legislation.</p> <p>5.5 state why the disposal of waste should be carried out in relation to the work.</p>			
6 Complete the work within the allocated time when erecting and striking timber and proprietary formwork for complex structures.	<p>6.1 demonstrate completion of the work within the allocated time.</p> <p>6.2 state the purpose of the work programme and explain why deadlines should be kept in relation to:</p> <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. 			
7 Comply with the given contract information to erect and strike timber and proprietary formwork for complex structures to the required specification.	<p>7.1 demonstrate the following work skills when erecting and striking timber and proprietary formwork for complex structures:</p> <ul style="list-style-type: none"> – measuring, marking out, cutting, fitting, finishing, removing, positioning and securing. <p>7.2 erect and strike complex formwork to given working instructions in both timber and proprietary systems for at least two of the following:</p> <ul style="list-style-type: none"> – stairs – landings – ramps – inclined structures – curved or circular structures – pre-cast forms. <p>7.3 describe how to apply safe work practices, follow procedures, report problems and establish the authority needed to rectify them, to:</p> <ul style="list-style-type: none"> – erect and strike timber and proprietary formwork for stairs, landings, ramps, inclined structures, curved or circular structures, pre-cast forms – fabricate, position, erect and strike kickers, box outs, bolt boxes and stop ends – attach and remove soldiers and walings 			

	<ul style="list-style-type: none"> – attach and remove safe lifting provision – fabricate, position, erect and strike, grout checks, level controls, angle fillets and features – position, secure and remove tie systems – apply release agents – identify differences in concrete pressure – use hand tools, power tools and equipment – work at height – use access equipment. <p>7.4 safely use and store hand tools, portable power tools and ancillary equipment.</p> <p>7.5 state the needs of other occupations and how to communicate within a team when erecting and striking timber and proprietary formwork for complex structures.</p> <p>7.6 describe how to maintain the tools and equipment used to erect and strike timber and proprietary formwork for complex structures.</p>			
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Learner name:

Date:

Learner signature:

Date:

Assessor signature:

Date:

Internal verifier signature:

Date:

(if sampled)

Further information

Our customer service numbers are:

BTEC and NVQ	0844 576 0026
GCSE	0844 576 0027
GCE	0844 576 0025
The Diploma	0844 576 0028
DIDA and other qualifications	0844 576 0031

Calls may be recorded for training purposes.

Useful publications

Related information and publications include:

- Centre Handbook for Edexcel QCF NVQs and Competence-based Qualifications published annually
- functional skills publications – specifications, tutor support materials and question papers
- *Regulatory Arrangements for the Qualification and Credit Framework* (published by Ofqual, August 2008)
- the current Edexcel publications catalogue and update catalogue.

Edexcel publications concerning the Quality Assurance System and the internal and standards verification of vocationally related programmes can be found on the Edexcel website.

NB: Some of our publications are priced. There is also a charge for postage and packing. Please check the cost when you order.

How to obtain National Occupational Standards

CITB-ConstructionSkills

Bircham Newton

King's Lynn

Norfolk

PE31 6RH

Telephone: 01485 577577

Fax: 01485 577793

Email: callcentre@cskills.org

Professional development and training

Edexcel supports UK and international customers with training related to NVQ and BTEC qualifications. This support is available through a choice of training options offered in our published training directory or through customised training at your centre.

The support we offer focuses on a range of issues including:

- planning for the delivery of a new programme
- planning for assessment and grading
- developing effective assignments
- building your team and teamwork skills
- developing student-centred learning and teaching approaches
- building functional skills into your programme
- building effective and efficient quality assurance systems.

The national programme of training we offer can be viewed on our website (www.edexcel.com/training). You can request customised training through the website or by contacting one of our advisers in the Training from Edexcel team via Customer Services to discuss your training needs.

The training we provide:

- is active
- is designed to be supportive and thought provoking
- builds on best practice
- may be suitable for those seeking evidence for their continuing professional development.

Annexe A: Progression pathways

The Edexcel qualification framework for the Construction and the Built Environment sector

Level	General qualifications	Diplomas	BTEC vocationally-related qualifications	BTEC specialist qualification/professional	NVQ/competence
8					
7					
6					Please refer to www.edexcel.com
5			Edexcel BTEC Level 5 HN Diploma in Construction		Please refer to www.edexcel.com
4			Edexcel BTEC Level 4 HN Certificate in Construction		Please refer to www.edexcel.com
3		Edexcel Level 3 Diploma in Construction and the Built Environment	Edexcel BTEC Level 3 Certificate, Subsidiary Diploma, Diploma Extended Diploma in Construction and the Built Environment	Edexcel BTEC Level 3 Award, Extended Certificate and Diploma in Construction and the Built Environment	Please refer to www.edexcel.com
2		Edexcel Level 2 Diploma in Construction and the	Edexcel BTEC Level 2 Certificate, Extended Certificate and Diploma in	Edexcel BTEC Level 2 Award, Certificate and Extended Certificate in	Please refer to www.edexcel.com

Level	General qualifications		Diplomas	BTEC vocationally-related qualifications	BTEC specialist qualification/professional	NVQ/competence
			Built Environment	Construction	Construction and the Built Environment (Craft) and Construction and the Built Environment (Technician)	
1			Edexcel Level 1 Diploma in Construction and the Built Environment	Edexcel BTEC Level 1 Award, Certificate, Diploma in Construction (QCF)	Edexcel BTEC Level 1 Award, Certificate, Extended Certificate in Construction and the Built Environment	Please refer to www.edexcel.com
Entry				Edexcel Entry Level BTEC Award in Construction (Entry 3) (QCF)		

Annexe B: Quality assurance

Key principles of quality assurance

- A centre delivering Edexcel qualifications must be an Edexcel recognised centre and must have approval for qualifications that it is offering.
- The centre agrees as part of gaining recognition to abide by specific terms and conditions around the effective delivery and quality assurance of assessment; the centre must abide by these conditions throughout the period of delivery.
- Edexcel makes available to approved centres a range of materials and opportunities to exemplify the processes required for effective assessment and provide examples of effective standards. Approved centres must use the guidance on assessment to ensure that staff who are delivering Edexcel qualifications are applying consistent standards.
- An approved centre must follow agreed protocols for: standardisation of assessors; planning, monitoring and recording of assessment processes; internal verification and recording of internal verification processes; and for dealing with special circumstances, appeals and malpractice.

Quality assurance processes

The approach to quality assured assessment is made through a partnership between a recognised centre and Edexcel. Edexcel is committed to ensuring that it follows best practice and employs appropriate technology to support quality assurance process where practicable. Therefore, the specific arrangements for working with centres will vary. Edexcel seeks to ensure that the quality assurance processes that it uses do not place undue bureaucratic processes on centres and works to support centres in providing robust quality assurance processes.

The learning outcomes and assessment criteria in each unit within this specification set out the standard to be achieved by each learner in order to gain each qualification. Edexcel operates a quality assurance process, which is designed to ensure that these standards are maintained by all assessors and verifiers.

For the purposes of quality assurance all individual qualifications and units are considered as a whole. Centres offering these qualifications must be committed to ensuring the quality of the units and qualifications they offer, through effective standardisation of assessors and internal verification of assessor decisions. Centre quality assurance and assessment processes are monitored by Edexcel.

The Edexcel quality assurance processes will involve:

- gaining centre recognition and qualification approval if a centre is not currently approved to offer Edexcel qualifications
- annual visits to centres by Edexcel for quality review and development of overarching processes and quality standards. Quality review and development visits will be conducted by an Edexcel quality development reviewer
- annual visits by occupationally competent and qualified Edexcel Standards Verifiers for sampling of internal verification and assessor decisions for the occupational sector
- the provision of support, advice and guidance towards the achievement of National Occupational Standards.

Centres are required to declare their commitment to ensuring quality and appropriate opportunities for learners that lead to valid and accurate assessment outcomes. In addition, centres will commit to undertaking defined training and online standardisation activities.

Pre-publication

Annexe C: Centre certification and registration

Edexcel Standards Verifiers will provide support, advice and guidance to centres to achieve Direct Claims Status (DCS). Edexcel will maintain the integrity of Edexcel QCF NVOs through ensuring that the awarding of these qualifications is secure. Where there are quality issues identified in the delivery of programmes, Edexcel will exercise the right to:

- direct centres to take actions
- limit or suspend certification
- suspend registration.

The approach of Edexcel in such circumstances is to work with the centre to overcome the problems identified. If additional training is required, Edexcel will aim to secure the appropriate expertise to provide this.

What are the access arrangements and special considerations for the qualifications in this specification?

Centres are required to recruit learners to Edexcel qualifications with integrity.

Appropriate steps should be taken to assess each applicant's potential and a professional judgement made about their ability to successfully complete the programme of study and achieve the qualification. This assessment will need to take account of the support available to the learner within the centre during their programme of study and any specific support that might be necessary to allow the learner to access the assessment for the qualification. Centres should consult Edexcel's policy on learners with particular requirements.

Edexcel's policy on access arrangements and special considerations for Edexcel qualifications aims to enhance access to the qualifications for learners with disabilities and other difficulties (as defined by the 1995 Disability Discrimination Act and the amendments to the Act) without compromising the assessment of skills, knowledge, understanding or competence. Please refer to *Access Arrangements and Special Considerations for BTEC and Edexcel NVO Qualifications* for further details.
www.edexcel.com.

Annexe D : Additional Requirements for Qualifications that use the title NVQ within the QCF

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Pre-publication

Purpose of document

1. The purpose of this document is to make clear what additional requirements are needed to assess and quality assure qualifications that use the title NVQ within the QCF.
2. When an SSC/SSB and awarding organisation wants to use the title NVQ in the naming of a qualification within the QCF, the awarding organisation is required to make sure this qualification is assessed and quality assured in accordance with these additional requirements and other requirements described in the SSC/SSB assessment strategy.
3. The aims of these additional requirements are to
 - ensure that all competence based qualifications that use the title NVQ within the QCF are
 - assessed consistently
 - quality assured consistently
 - maintain the integrity of qualifications that use the title NVQ within the QCF
 - establish the NVQ brand within the QCF
 - keep bureaucracy associated with assessment and quality assurance of qualifications that use the title NVQ within the QCF to a minimum.

Background

4. ¹ “At the heart of an NVQ is the concept of occupational competence; the ability to perform to the standards required in employment across a range of circumstances and to meet changing demands. NVQs are first and foremost about what people can do. They go beyond technical skills to include planning, problem solving, dealing with unexpected occurrences, working with other people and applying the knowledge and understanding that underpins overall competence”.
5. NVQs are based entirely on National Occupational Standards (NOS) developed by an SSC/SSB, which describe the competence needed in an occupational role.
6. Qualifications that use the title NVQ within the QCF must comply with the rules of combination determined by the SSC/SSB. Awarding organisations are not allowed to develop another qualification that does not use the title NVQ within the QCF, if it uses the same rules of combination as a qualification that does use the title NVQ within the QCF.
7. The QCF offers increased flexibility in the way occupational competence can be assessed and demonstrated. Qualifications that use the title NVQ in the title within the QCF are just one way of assessing and demonstrating occupational competence. SSCs/SSBs are free to work with their awarding organisations to agree what qualifications will be used to assess occupational competence. Qualifications that use the title NVQ within the QCF, are not a preferred method for assessing occupational competence and all qualifications accredited through the QCF have equal status.
8. When developing a qualification for the QCF, including qualifications that use the title NVQ within the QCF, an awarding organisation must be a recognised awarding organisation and must meet the Qualification Requirements in the Regulatory Arrangements for the Qualifications and Credit Framework, published by The Office of the Qualifications and Examinations Regulator (Ofqual) in August 2008.
9. The qualification regulators confirmed that a group of SSCs and SSBs would be free to develop specific, additional requirements about the way in which qualifications that use the title NVQ within the QCF will be assessed and quality assured. For those recognised awarding organisations that want to assess occupational competence through the use of qualifications that use the title NVQ within the QCF, it has been agreed by SSCs and SSBs that the following additional requirements must be met.

¹ NCVO's NVQ Criteria and Guidance 1995.

Additional requirements for qualifications that use the title NVQ within the QCF

Introduction

10. Qualifications that use the title NVQ within the QCF must be assessed and quality assured in accordance with the following additional requirements.

Assessment requirements

11. When a qualification uses the title NVQ within the QCF, awarding organisations are required to make sure their recognised assessment centres understand how learners are to be assessed.
12. Assessment methodologies must meet the assessment strategy developed in partnership between the relevant SSC or SSB and awarding organisations for the qualification. The assessment strategy must be published and made available separately and will include the requirements for assessment of qualifications that use the title NVQ within the QCF. The assessment criteria for each unit will be part of the units that make up the qualification.
13. Learners must complete real work activities in order to produce evidence to demonstrate they have met the NOS and are occupationally competent.
14. When a learner cannot complete a real work activity, simulation is allowed.
15. Simulation is allowed when
 - a learner is required to complete a work activity that does not occur on a regular basis and therefore opportunities to complete a particular work activity do not easily arise
 - a learner is required to respond to a situation that rarely occurs, such as responding to an emergency situation
 - the safety of a learner, other individuals and/or resources will be put at risk.
16. When simulation is used, assessors must be confident that the simulation replicates the workplace to such an extent that learners will be able to fully transfer their occupational competence to the workplace and real situations.
17. Units that must not be assessed by simulation must be identified by the SSC/SSB in the assessment strategy for the qualification or family of qualifications.
18. Learners must be assessed by assessors
 - who are occupationally competent in the occupational areas they are assessing where they have sufficient and relevant technical/occupational competence in the unit, at or above the level of the unit being assessed and as defined by the assessment strategy for that qualification

- ²who must hold or be working towards a suitable assessor qualification to confirm they understand assessment and how to assess learners
 - must be fully conversant with the unit(s) against which the assessments and verification are to be undertaken.
19. All assessors must carry out assessment to the standards specified in the A units.
 20. All assessment decisions made by a trainee assessor must be checked by a qualified assessor or an assessor recognised by an awarding organisation.
 21. Trainee assessors must have a plan, which is overseen by the recognised assessment centre, to achieve the relevant assessor qualification(s) within an agreed timescale.

Pre-publication

² Currently an assessor could hold unit A1 and/or unit A2. Or from the past unit D32 and/or unit D33. SSCs also identify other suitable equivalent qualifications.

Quality assurance requirements

22. When a qualification uses the title NVQ within the QCF, awarding organisations are required to make sure their recognised assessment centres understand how the qualification will be quality assured.
23. Qualifications that use the title NVQ within the QCF, must be verified
- internally by an internal verifier, who is accountable to the assessment centre
 - externally by an external verifier, who is accountable to the awarding organisation or an agent of the awarding organisation.
24. With reference to internal verification, internal verifiers must
- ³hold or be working towards a suitable internal verifier qualification to confirm they understand how to internally verify assessments
 - have sufficient and relevant technical/occupational familiarity in the unit(s) being verified
 - be fully conversant with the standards and assessment criteria in the units to be assessed
 - understand the awarding organisation's quality assurance systems and requirements for this qualification.
25. Trainee internal verifiers must have a plan, which is overseen by the recognised assessment centre, to achieve the internal verifier qualification within an agreed timescale.
26. With reference to external verification, external verifiers must
- ⁴hold or be working towards a suitable external verification qualification to confirm they understand and are able to carry out external verification
 - have no connections with the assessment centre, in order to maintain objectivity
 - have sufficient and relevant technical/occupational understanding in the unit(s) being verified
 - be fully conversant with the standards and performance criteria in the units to be assessed
 - understand the awarding organisation's quality assurance systems for this qualification.
27. Trainee external verifiers must have a plan, which is overseen by the awarding organisation, to achieve the external verifier qualification within an agreed timescale.

³ Currently an internal verifier needs to hold unit V1. Or from the past unit D34. SSCs also identify other suitable equivalent qualifications.

⁴ Currently an external verifier needs to hold unit V2. Or from the past unit D35.

28. Awarding organisations must decide the frequency of external monitoring activities. Any decision must be based on
- the risks associated with a qualification that is designed to help a learner demonstrate occupational competence
 - an evaluation of the centre's performance and past record.
29. Awarding organisations will have in place suitably constituted audit processes, which are supported by naturally occurring quality assurance and monitoring systems that already exist in workplace assessment environments.

Pre-publication

Annexe E: Assessment Requirements/strategy

The Assessment Strategy is being updated by ConstructionSkills. The updated version will appear in the final version of this document. Meanwhile, the current Assessment Strategy may be found on the Edexcel website.

Pre-publication

Pre-publication

Ofqual
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Llywodraeth Cynulliad Cymru
Welsh Assembly Government



Publications Code NO24996

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