



QCF Unit and Assessment Specification

Unit title	Erecting and Dismantling Plant (Cranes and Rigs) in the Workplace
Ofqual Unit code	K/600/8106
SQA Unit code	FC89 68
SSC Ref	VR 404

QCF Unit specification

Title:	Erecting and Dismantling Plant (Cranes and Rigs) in the Workplace	
Level:	2	
Credit value:	30	
Learning Outcomes <i>The learner will be able to:</i>	Assessment Criteria <i>The learner can:</i>	
1 Interpret the given information relating to erecting and dismantling plant.	1.1	Interpret and extract information from drawings, specifications, schedules, method statements and manufacturers' information.
	1.2	Comply with information and/or instructions derived from risk assessments and method statements.
	1.3	State the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
	1.4	Describe different types of information, their source and how they are interpreted in relation to: <ul style="list-style-type: none"> ◆ drawings, specifications, schedules, method statements, manufacturers' information, regulations and guidance.
2 Organise with others the sequence and operation in which erecting and dismantling operations are to be carried out.	2.1	Organise the work according to given information or instructions.
	2.2	Describe how to communicate ideas between team members.
	2.3	Organise and communicate with team members and other associated occupations.
	2.4	State how to organise resources prior to and during erecting and dismantling operations.
3 Know how to comply with relevant legislation and official guidance to carry out erecting and dismantling of plant.	3.1	Describe their responsibilities under current legislation and official guidance whilst working: <ul style="list-style-type: none"> ◆ in the workplace, below ground Level, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting.
	3.2	Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.
	3.3	State what the accident reporting procedures are and who is responsible for making reports.

Learning Outcomes <i>The learner will be able to:</i>	Assessment Criteria <i>The learner can:</i>
4 Maintain safe working practices when carrying out erecting and dismantling of plant.	4.1 Use personal protective equipment (PPE) to safely carry out the activity in accordance with legislation and organisational requirements during erecting and dismantling operations.
	4.2 Explain why and when personal protective equipment (PPE) should be used, relating to erecting and dismantling plant, and the types, purpose and limitations of each type.
	4.3 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.
5 Request and select the required quantity and quality of resources to carry out erecting and dismantling of plant.	5.1 Describe the characteristics, quality, uses, limitations and defects associated with the resources, and how they should be used correctly, relating to: <ul style="list-style-type: none"> ◆ plant ◆ hand and/or powered tools and equipment.
	5.2 Request and select resources associated with the work in relation to consumables, materials, tools, accessories and/or ancillary equipment.
	5.3 State how the resources should be used correctly, how problems associated with the resources are reported and how the organisational procedures are used.
	5.4 Outline potential hazards associated with the resources and method of work.
	5.5 Describe how to calculate weight, bearing pressure, quantity, length and area associated with the method/procedures to carry out the work.
6 Minimise the risk of damage to the work and surrounding area when erecting and dismantling plant.	6.1 Protect the work and its surrounding area from damage.
	6.2 Minimise damage and maintain a clean work space.
	6.3 Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.
	6.4 Dispose of waste in accordance with legislation.
	6.5 State why the disposal of waste should be carried out safely in relation to the work.

Learning Outcomes <i>The learner will be able to:</i>	Assessment Criteria <i>The learner can:</i>
7 Complete the work within the allocated time when erecting and dismantling plant.	7.1 Demonstrate completion of the work within the allocated time.
	7.2 State the purpose of the work programme and describe why deadlines should be kept in relation to: <ul style="list-style-type: none"> ◆ types of progress charts, timetables and estimated times ◆ organisational procedures for reporting circumstances which will affect the lifting operation.
8 Comply with the given contract information to erect and dismantle plant to the required specification.	8.1 Demonstrate the following work skills when preparing for and erecting and dismantling plant: <ul style="list-style-type: none"> ◆ unloading, loading, siting, measuring, marking out, lay out, aligning, fitting, positioning, connecting, configuring, dismantling, removing, adjusting, securing, checking and inspecting.
	8.2 Prepare, erect and dismantle plant to given working instructions on one or more of the following: <ul style="list-style-type: none"> ◆ mobile crane ◆ mobile (truck-mounted) tower crane ◆ crawler crane ◆ tower crane ◆ overhead crane ◆ drilling rig ◆ piling rig ◆ demolition rig.
	8.3 Describe how to apply safe work practices, follow procedures, report problems and establish authority needed to rectify, to: <ul style="list-style-type: none"> ◆ erect and dismantle one or more of the following: mobile crane, mobile (truck-mounted) tower crane, drilling rig, demolition rig and piling rig ◆ use hand tools, power tools, plant and equipment.
	8.4 Safely use and store hand tools, portable power tools, ancillary equipment and machinery.
	8.5 State the needs of other occupations and how to communicate within a team when preparing for and erecting and dismantling plant.
	8.6 Describe how to maintain the plant, tools and equipment used to erect and dismantle plant.

Additional information about this Unit	
Purpose and aim of Unit	The aim of this Unit is to illustrate the skills, knowledge and understanding required to confirm competence in erecting and dismantling plant (cranes and rigs) in the workplace within the relevant sector of industry.
Unit expiry date	31/10/2014
Details of the relationship between the Unit and relevant national occupational standards or other professional standards or curricula (if appropriate)	This Unit is based on the National Occupational Standard 'Erect and Dismantle Plant (Cranes and Rigs)' (VR 404)
Assessment requirements or guidance specified by a sector or regulatory body (if appropriate)	<p>This Unit must be assessed in a work environment and in accordance with:</p> <ul style="list-style-type: none"> ◆ 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. <p>Assessors for this Unit must use a combination of the following assessment methods:</p> <ul style="list-style-type: none"> ◆ 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. <p>Assessors for this Unit must have verifiable, current industry experience and a sufficient depth of occupational expertise and knowledge of erecting and dismantling plant (cranes and rigs) to be effective and reliable when confirming a learner's competence.</p> <p>Workplace evidence of skills cannot be simulated.</p> <p>This Unit must be assessed against one of the following endorsements:</p> <ul style="list-style-type: none"> ◆ Mobile crane ◆ Crawler crane ◆ Tower crane ◆ Overhead crane ◆ Piling rig ◆ Demolition rig ◆ Drilling rig

Additional information about this Unit	
Support for the Unit from a sector skills council or other appropriate body (if required)	ConstructionSkills
Location of the Unit within the subject/sector classification system	05.2 Building and Construction
Name of the organisation submitting the Unit	ConstructionSkills
Availability for use	Shared Unit
Unit available from	01/11/2009
Unit review date	30/04/2011
Credit value	30
Unit guided learning hours	100

QCF Assessment specification

Assessment (evidence) Requirements

The evidence requirements for this Unit are shown in the main body of the Unit under the section titled 'Assessment requirements or guidance specified by a sector or regulatory body'.

Guidance on Instruments of Assessment

Occupational Skills (OS) Unit

This Unit is designed to assess the skills of learners in the workplace. Observation of learner performance can only be carried out on-the-job and should always be the primary and preferred source of evidence of competent performance.

Collection of supplementary evidence of performance can be used to further substantiate, support and expand the evidence base for competent performance where this is necessary. This may arise in situations where evidence from direct observation of the learners on-the-job is deemed insufficient to fully meet the required standards. Supplementary evidence may include:

- ◆ witness testimony
- ◆ questioning,
- ◆ professional discussion,
- ◆ product and photographic evidence,
- ◆ relevant active documentation, reports, presentations and
- ◆ other valid evidence which relates directly to learner performance on-the-job.

SQA's Guide to Assessment is designed to provide support for everyone who assesses for SQA qualifications. It looks at the principles of assessment, and brings together information on assessment in general as well as on best practice in assessment. The Guide to Assessment can be downloaded free from SQA's website www.sqa.org.uk