



Unit Specification for Regulated Qualifications

Unit title	Prefabricating Reinforcement Steel Sections in the Workplace
Unit Level	2
Credit	25
Guided Learning Hours	83
SQA Unit code	HW2N 68
Regulator Unit code	F/616/5639
Publication date	October 2017
Unit owner and reference	CITB Unit ref 535v2 ST
Version	1

Title:	Prefabricating reinforcement steel sections in the workplace	
Level:	2	
Value for TQT	250	
Learning outcomes <i>The learner will be able to:</i>	Assessment criteria <i>The learner can:</i>	
1 Interpret the given information relating to the work and resources when prefabricating reinforcement steel sections.	1.1	Interpret and extract relevant information from drawings, specifications, schedules, bending schedules, method statements, risk assessments and manufacturers' information.
	1.2	Comply with information and/or instructions derived from risk assessments and method statements.
	1.3	Describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.
	1.4	Describe different types of information, their source and how they are interpreted in relation to: <ul style="list-style-type: none"> – drawings, specifications, schedules, bending schedules, method statements, risk assessments, manufacturers' information, current regulations and official guidance associated with prefabricating reinforcement steel sections.
2 Know how to comply with relevant legislation and official guidance when prefabricating reinforcement steel sections.	2.1	Describe their responsibilities regarding potential accidents and health hazards, whilst working: <ul style="list-style-type: none"> – 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	Explain what the accident reporting procedures are and who is responsible for making reports.
3 Maintain safe and healthy working practices when prefabricating reinforcement steel sections.	3.1	Use health and safety control equipment and access equipment (if applicable) safely to carry out the activity in accordance with current legislation and organisational requirements when prefabricating reinforcement steel sections.
	3.2	Comply with information relating to specific risks to health when prefabricating reinforcement steel sections.

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Learning outcomes <i>The learner will be able to:</i>	Assessment criteria <i>The learner can:</i>
3 Continued	3.3 Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to prefabricating reinforcement steel sections, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to: <ul style="list-style-type: none"> – collective protective measures – personal protective equipment (PPE) – respiratory protective equipment (RPE) – local exhaust ventilation (LEV).
	3.4 Describe how the relevant health and safety control equipment should be used in accordance with the given instructions.
	3.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards.
4 Select the required quantity and quality of resources for the methods of work to prefabricate reinforcement steel sections.	4.1 Select resources associated with own work in relation to materials, components, fixings, tools and equipment.
	4.2 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to: <ul style="list-style-type: none"> – pre-cut and bent components, reinforcement steel, tie wire and spacers – hand and/or portable power tools and equipment.
	4.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.
	4.4 Explain why the organisational procedures have been developed and how they are used for the selection of required resources.
	4.5 Describe any potential hazards associated with the resources and methods of work.
	4.6 Describe how to calculate quantity, length, area and wastage associated with the method/procedure to prefabricate reinforcement steel sections.

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5 Minimise the risk of damage to the work and surrounding area when prefabricating reinforcement steel sections.	5.1 Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	5.2 Minimise damage and maintain a clean work space.	
	5.3 Dispose of waste in accordance with current legislation.	
	5.4 Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.	
	5.5 Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance.	
6 Complete the work within the allocated time when prefabricating reinforcement steel sections.	6.1 Demonstrate completion of the work within the allocated time.	
	6.2 Describe the purpose of the work programme and explain why deadlines should be kept in relation to: <ul style="list-style-type: none"> – types of 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 prefabricate reinforcement steel sections to the required specification.	7.1 Demonstrate the following work skills when prefabricating reinforcement steel sections: <ul style="list-style-type: none"> – measuring, marking out, fitting, positioning, bracing and securing. 	
	7.2 Prefabricate reinforcement steel to given working instructions: <ul style="list-style-type: none"> – bases – columns – beams – slabs – walls 	
	7.3 Incorporate two of the following into prefabricated steel sections: <ul style="list-style-type: none"> – temporary construction bars – bracing – lifting points. 	
	7.4 Safely use and handle materials, hand tools, portable power tools and ancillary equipment.	

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7 Continued	7.5	Safely store the materials, tools and equipment used when prefabricating reinforcement steel sections.
	7.6	<p>Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:</p> <ul style="list-style-type: none"> – prefabricate reinforcement from pre-cut and bent components to form sections for bases, columns, beams, slabs and walls – extract details from steel fixing and temporary works drawings (hardcopy, digital and building information modelling) – complete work to agreed quality criteria – identify grades of steel – work to given tolerance – follow construction sequence including temporary works design – fix prefabricated reinforcement steel sections for horizontal and vertical elements – form associated wire ties – identify other fixings, clamps, U bolts – fix, secure and remove temporary construction bars – fix and secure bracing for section movement – fix and secure lifting points for section movement – incorporate embedment's into prefabricated steel sections – incorporate reinforcement coupler and continuity systems – move and position steel – sort, store and protect steel and fixings – use hand tools, portable power tools and equipment – work at height – use access equipment.
	7.7	Describe the needs of other occupations and how to effectively communicate within a team when prefabricating reinforcement steel sections.
	7.8	Describe how to maintain the tools and equipment used when prefabricating reinforcement steel sections.

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Additional information about this unit	
Assessment Guidance	<p>This unit must be assessed in a work environment and in accordance with the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment</p> <p>Assessors for this unit must have verifiable, current industry experience and a sufficient depth of occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.</p> <p>Workplace evidence of skills cannot be simulated.</p> <p>This unit must be assessed against the endorsements detailed within the relevant NVQ Structure. Please refer to the NVQ Structure applicable to the qualification/occupational area in which the candidate is being assessed.</p>
Sector Subject Areas	5.2 Building and Construction
Availability for use	Shared unit
Unit guided learning hours	83