



## **Regulated Qualifications Unit and Assessment Specification**

<b>Unit title</b>	Manually Applying Specialist Road Surfacing in the Workplace
<b>Regulator unit code</b>	H/504/6567
<b>SQA unit code</b>	H607 68
<b>SSC Ref</b>	VR 383v3

## History of changes

**Publication date:** November 2013

**Version:** 02 (July 2017)

<b>Version number</b>	<b>Date</b>	<b>Description</b>	<b>Authorised by</b>
02	July 2017	Unit Specification updated to reflect current Ofqual terminology	Qualifications Officer

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## Regulated Qualifications Unit specification

<b>Title:</b>	Manually Applying Specialist Road Surfacing in the Workplace	
<b>Level:</b>	2	
<b>Credit value:</b>	55	
<b>Learning Outcomes</b> <i>The learner will be able to:</i>	<b>Assessment Criteria</b> <i>The learner can:</i>	
1 Interpret the given information relating to the work and resources when manually applying specialist road surfacing.	1.1	Interpret and extract relevant information from drawings, risk assessments, method statements, specifications, schedules 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"> <li>◆ drawings, specifications, schedules, risk assessments, method statements, manufacturers' information and current regulations relating to slurry/microsurfacing or high friction</li> </ul>
2 Know how to comply with relevant legislation and official guidance when manually applying specialist road surfacing.	2.1	Describe their responsibilities regarding potential accidents and health hazards, whilst working: <ul style="list-style-type: none"> <li>◆ in the workplace, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting</li> </ul>
	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.

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3 Maintain safe and healthy working practices when manually applying specialist road surfacing.	3.1	Use health and safety control equipment safely to carry out the activity in accordance with current legislation and organisational requirements when manually applying specialist road surfacing.
	3.2	Comply with information relating to specific risks to health when manually applying specialist road surfacing.
	3.3	Explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to manually applying specialist road surfacing, 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"> <li>◆ collective protective measures</li> <li>◆ personal protective equipment (PPE)</li> <li>◆ respiratory protective equipment (RPE)</li> <li>◆ local exhaust ventilation (LEV)</li> </ul>
	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.

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<i>The learner will be able to:</i>	<i>The learner can:</i>	
4 Select the required quantity and quality of resources for the methods of work to manually apply specialist road surfacing.	4.1 Select resources associated with own work in relation to materials, components and fixings, and 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"> <li>◆ primers, epoxy or thermoplastic resins, bituminous emulsion, catalyst, doping agents, fibres, rubber, pigment</li> <li>◆ aggregate, calcined bauxite</li> <li>◆ masking tape</li> <li>◆ mixer and mixer pot</li> <li>◆ heater</li> <li>◆ hand and/or powered tools and equipment</li> </ul>	
	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 manually apply specialist road surfacing.	

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<b>Learning Outcomes</b> <i>The learner will be able to:</i>		<b>Assessment Criteria</b> <i>The learner can:</i>	
5	Minimise the risk of damage to the work and surrounding area when manually applying specialist road surfacing.	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 manually applying specialist road surfacing.	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"> <li>◆ types of progress charts, timetables and estimated times</li> <li>◆ organisational procedures for reporting circumstances which will affect the work programme</li> </ul>

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7 Comply with the given contract information to manually apply specialist road surfacing to the required specification.	7.1 Demonstrate the following work skills (as applicable to the surfacing) when manually applying specialist road surfacing: <ul style="list-style-type: none"> <li>◆ measuring, setting out, marking, positioning, drying, cleaning, masking, priming, mixing, spraying, heating and decanting, spreading, rolling, curing, inspecting and communicating</li> </ul>	
	7.2 Prepare for and manually apply specialist road surfacing to given working instructions, using one of the following methods: <ul style="list-style-type: none"> <li>◆ slurry/microsurfacing</li> <li>◆ high friction surfacing (cold applied)</li> <li>◆ high friction surfacing (hot applied)</li> <li>◆ surface dressing</li> </ul>	
	7.3 Safely use materials, hand tools, portable power tools and ancillary equipment.	
	7.4 Safely store the materials, tools and equipment used when manually applying specialist road surfacing.	
	7.5 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to: <ul style="list-style-type: none"> <li>◆ establish an agreed time frame for resurfacing</li> <li>◆ prepare substrate, to include measuring, setting out, marking out, drying, cleaning and repairing</li> <li>◆ prepare equipment as necessary</li> <li>◆ level and realign ironwork</li> <li>◆ prepare materials, to include storing, handling and mixing</li> </ul>	
	7.6 Describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to: <ul style="list-style-type: none"> <li>◆ apply materials to prepared surfaces, to include heating, pouring, screeding and spreading</li> <li>◆ remove and dispose of arisings</li> <li>◆ communicate and co-ordinate progress on specialist resurfacing</li> <li>◆ return infrastructure to operational status</li> <li>◆ use hand tools, power tools and equipment</li> </ul>	
	7.7 Describe the needs of other occupations and how to effectively communicate within a team when manually applying specialist road surfacing.	

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	7.8 Describe how to maintain the tools and equipment used to manually apply specialist road surfacing.



<b>Title:</b>	Manually Applying Specialist Road Surfacing in the Workplace
<b>Additional information about this unit</b>	
Purpose and aim of unit	The aim of this unit is to illustrate the skills, Knowledge and Understanding required to confirm competence in manually applying specialist road surfacing in the workplace within the relevant sector of industry.
Unit start date	01 November 2013
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 'Apply Specialist Road Surfacing Manually (VR 383v2)
Assessment requirements or guidance specified by a sector or regulatory body (if appropriate)	<p>This unit must be assessed in a work environment, in accordance with:</p> <ul style="list-style-type: none"> <li>◆ the Additional Requirements for Qualifications using the title NVQ in QCF</li> <li>◆ the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment</li> </ul> <p>Assessors for this Unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.</p> <p>Workplace evidence of skills cannot be simulated.</p> <p>This Unit must be assessed against one of the following endorsements:</p> <ul style="list-style-type: none"> <li>◆ slurry/microsurfacing</li> <li>◆ high friction (hot applied)</li> <li>◆ high friction (cold applied)</li> <li>◆ surface dressing</li> </ul>
Support for the unit from a sector skills council or other appropriate body (if required)	Construction Skills
Location of the unit within the subject/sector classification system	05.2 Building and Construction
Name of the organisation submitting the unit	ConstructionSkills
Credit Value	55
Guided Learning Hours	183

## Regulated Qualifications 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
- ◆ 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](http://www.sqa.org.uk).