

Title:	Preparing surfaces by abrasive blast cleaning in the workplace	
Level:	3	
Value for TQT:	270	
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 preparing surfaces by abrasive blast cleaning.	1.1	Interpret and extract relevant information from drawings, specifications, current regulations, schedules, risk assessments method statements and manufacturers' information. and current regulations governing buildings associated with occupational requirements
	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, current legislation, schedules, risk assessments, method statements and manufacturer's information official guidance and current regulations governing buildings associated with occupational requirements.
2 Know how to comply with relevant legislation and official guidance when preparing surfaces by abrasive blast cleaning.	2.1	Describe their responsibilities regarding, potential accidents, health hazards people and the environment, whilst working: <ul style="list-style-type: none"> – in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement and 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 operative and vehicles.
	2.3	Explain what the accident reporting procedures are and who is responsible for making reports.
	2.4	Describe the types of fire extinguishers available when preparing surfaces by abrasive blast cleaning and describe how and when they are used.
3 Maintain safe and healthy working practices when preparing surfaces by abrasive blast cleaning.	3.1	Use health and safety control equipment safely and comply with the methods of work to carry out the activity in accordance with current legislation and organisational requirements when preparing surfaces by abrasive blast cleaning.
	3.2	Demonstrate compliance with given information and relevant legislation when preparing surfaces by abrasive blast cleaning in relation to all of the following: <ul style="list-style-type: none"> – safe use of access equipment

	<ul style="list-style-type: none"> – safe use, storage and handling of materials, tools and equipment – specific risks to health including those posed by lead and other existing industrial coatings
3 Continued	<p>3.3 Explain why and when health and safety control equipment, identified by the principles of prevention, should be used, relating to preparing surfaces by abrasive blast cleaning, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:</p> <ul style="list-style-type: none"> – collective protective measures – personal protective equipment (PPE) – respiratory protective equipment (RPE) – local exhaust ventilation (LEV).
	<p>3.4 Describe how the relevant health and safety control equipment should be used in accordance with the given instructions.</p>
	<p>3.5 Describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, leakages or injuries and other task-related activities.</p>
4 Select the required quantity and quality of resources for the methods of work to prepare surfaces by abrasive blast cleaning.	<p>4.1 Select resources associated with own work in relation to materials, tools and equipment.</p>
	<p>4.2 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to:</p> <ul style="list-style-type: none"> – blast media – lighting and signage – protective sheeting and masking materials – abrasive blast cleaning equipment – plant and access equipment – hand tools, power tools, surface profile testing equipment and blast cleaning and ancillary equipment.
	<p>4.3 Describe how to confirm that the resources and materials conform to the specification.</p>
	<p>4.4 Describe how the resources should be used correctly and how problems associated with the resources are reported.</p>
	<p>4.5 Explain why the organisational procedures have been developed and how they are used for the selection of required resources.</p>
	<p>4.6 Describe any potential hazards associated with the resources and methods of work.</p>
	<p>4.7 Describe how to calculate quantity including wastage of materials associated with the method and procedure to preparing surfaces by abrasive blast cleaning.</p>

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5 Minimise the risk of damage to the work and surrounding area when preparing surfaces by abrasive blast cleaning.	5.1 Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.	
	5.2 Maintain a clear and tidy 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 members of the public 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 preparing surfaces by abrasive blast cleaning.	6.1 Demonstrate completion of the work within the estimated, 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 prepare surfaces by abrasive blast cleaning to the required specification.	7.1 Demonstrate the following work skills when preparing surfaces by abrasive blast cleaning: <ul style="list-style-type: none"> – assembling, preparing, loading, communicating, positioning, profiling, filling, checking, fitting, setting-up, shutting down, protecting and blasting. 	
	7.2 Use and maintain hand tools, power tools, blast cleaning equipment and ancillary equipment.	
	7.3 Set up abrasive blast cleaning equipment to given working instructions.	
	7.4 Operate blast cleaning equipment to achieve the required standard as stated in the given working instructions, relating to the following: <ul style="list-style-type: none"> – preparing abrasives – loading the system – monitoring and maintaining supply. 	
	7.5 Prepare the following surfaces using two types of abrasive media for each: <ul style="list-style-type: none"> – metal surfaces to the specified profile – masonry surfaces 	

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7 Continued	7.6	Shut down and clean out the blast cleaning equipment to given working instructions.
	7.7	Dismantle blast cleaning equipment to given working instructions.
	7.8	<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"> – establish access requirements – establish suitable atmospheric conditions – establish lighting requirements – mask surfaces – assemble component parts – identify and prepare abrasives – plan the safeguard of operatives and the general public from blast cleaning activities – prepare, load, operate, maintain (during use) and monitor the abrasive blast cleaning equipment – monitor blast media effect on the surface to achieve the required standard of surface preparation, profile and cleanliness – remove toxic and non-toxic surface layers – monitor the protective integrity of PPE/RPE during work – evaluate contamination and/or deterioration of newly blasted surfaces and understand the timing constraints for primer application – close-down, dismantle, clean and store equipment – provide information for Building Information Modelling (BIM) – recognise and determine when specialist skills and knowledge are required and report accordingly – determine specific requirements for structures of special interest, traditional build (pre 1919) and historic interest – identify and follow manufacturers' instructions – work around and in close proximity to plant and machinery – direct and guide the operations and movement of plant and machinery – inspect and use access equipment – work at height – use hand tools and ancillary equipment.
	7.9	Describe the needs of other occupations and how to effectively communicate within a team when preparing surfaces by abrasive blast cleaning.
7.10	Describe how to maintain the tools and equipment used when preparing surfaces by abrasive blast cleaning.	

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Additional information about this unit	
Assessment Guidance	<p>This unit must be assessed in a work environment, 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 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>
Sector Subject Areas	05.2 Building and Construction
Availability for use	Shared unit
Unit guided learning hours	90
Assessment	30