

BCSA CRAFT TRAINING

SURFACE TREATMENT (Blasting and Painting)

The BCSA CRAFT Surface Treatment Apprenticeship Scheme is a modular training course that is completed in the workplace. The modules will be used to guide the apprentice through the different aspects of the role of surface treatment with the assistance of those with the skills and knowledge to guide the apprentice until they reach a satisfactory level of competence against each module. Completion of the apprenticeship will only be recognised when all the modules are completed and the apprentice has had sufficient time to develop and build experience in the role.

The learner will (know, understand or be able to):	The learner will cover:
1. A) Health and Safety - Blasting	To be able to demonstrate good working practices to reduce exposure to any hazards associated with abrasive blasting materials, carry out work safely and leave the workplace in a safe and tidy condition.
1. B) Health and Safety - Painting	To be able to demonstrate good working practices to reduce exposure to any hazards associated with paints, carry out work safely and leave the workplace in a safe and tidy condition.
2. Surface Preparation	Recognise the machinery, tools and equipment used in the preparation of fabricated steelwork and how different surfaces need to be created for the different surface coatings that can be applied.
3. Paint Coating	Understand the different processes for applying protective coatings and that protective coating consist of a primer, undercoat(s) and finish coat and that each 'layer' in any protective coating system has a specific function, and the different coating types are applied in a particular sequence of primer followed by intermediate / build coats in the shop, and finally the finish or top coat either in the shop or on site.
4. Vehicle Loading of Steelwork	Understand that the maximum permitted axle and gross weight limits must not be exceeded and the effect on gross weight, individual axle weights and on the securing and stability of the load. Recognise during loading that removal of part of the load will reduce the gross vehicle weight the change in weight distribution may cause individual axles to become overloaded.
5. Basic Lifting practices	To be able to demonstrate and understand basic lifting practices to lift and position fabricated and coated steelwork without causing damage to the finished surface. The selection of the correct equipment, the recognition of the centre of gravity of shaped loads and the safe storage and use of the lifting accessories
6. Operation of Mobile Blasting Units	Understand how and where the use of portable equipment will be required and the pre checks required to ensure the equipment can be operated safely. To be able to identify and secure the additional health and safety requirements needed for the operator and others that may be affected when working in temporary locations.
7. Intumescent Coatings	Intumescent paint is a combination of both protective coating and fire protection product that reacts and swells up when exposed to heat. To understand the differences between conventional anti-corrosive protective coatings and intumescent fire protection coatings, with some very basic understanding of fire engineering and its terminology is required

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