

BCSA CRAFT TRAINING

STRUCTURAL STEEL DETAILER

The BCSA CRAFT Structural Steel Detailer 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 Steel Detailer 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. Health and safety	Demonstrate good working practices to reduce exposure to any hazards, carry out work safely and leave the workplace in a safe and tidy condition.
2. Introduction to the fabrication and welding workshop	Recognise the components of fabricated steelwork identify the various machinery and equipment used in fabrication and understand the factory production process.
3. Introduction to Steel detailing	Understand contractual and technical requirements. The role and responsibilities of a steel detailer Work to the drawing office procedures.
4. Material and their fit	Identify the various steelwork sections. Understand the different uses of welded and bolted connections and recognise the limits on transportation and site erection.
5. Geometry and scale	Recognise the different building types. Understand the different building geometries. Understand the different roof geometries.
6. Connections and structural steel	Understand the forces involved in the structure, the variety and use of structural bolts and the design and strength of structural welds. Recognise the variety of different connections used.
7. Introduction to steel frames 1	Understand the role of the beams and columns in structures and the building layout and floor construction. Understand the use of bracing and splicing and recognise the additional requirements for crane gantry beams.
8. Introduction to steel frames 2	Understand the specific details of roof trusses, the use of lattice girders and the use of girder members.
9. Introduction to steel frames 3	Understand Hip and Valley Frames, the inclusion of Roof Panels and Cladding. Understand the use of Industrial Stairs and Ladders and recognise the specific details of Cold Form Frames.
10. Introduction to CAD and BIM	Recognise the different software operating systems. Understand what Computer Aided Drawing (CAD) is and how to deal with CAD problems. Understand how BIM and Model sharing can bring improvements.

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