

## TRAILBLAZER APPRENTICESHIP STANDARD FOR CONSTRUCTION ASSEMBLY TECHNICIAN

Typical Job Roles	Construction Assembly Technician
Duration	18 – 24 months
Level	2

### Occupational profile

The primary role of a construction assembly technician is to use elements manufactured off site and position and assemble them in a construction site environment. An assembly technician will typically be working as part of a larger team in which they will have responsibility for some of the assembly and installation of manufactured components to the correct specification and tolerance. The assembly technician will need to be able to interpret contract information, drawings and specifications.

### Skills and Competence requirements

On completion of this apprenticeship, construction assembly technicians will have the skills and competencies to be able to demonstrate the ability to:

- Apply general workplace health, safety and welfare requirements when undertaking construction assembly activities
- Plan and undertake work practices productively.
- Apply safe working techniques for moving, lifting and handling pre-assembled, manufactured elements.
- Read, interpret and work to drawings, specifications and construction information.
- Assemble, position and fix manufactured elements.
- Apply safe use, storage and maintenance of hand tools, power tools and ancillary equipment.
- Apply safe working techniques when working at height and using access equipment.
- Apply safe working techniques when slinging and signalling the movement of loads.
- Use different materials; including metals that can be used together for load bearing and non-load bearing purposes.
- Install and remove manufactured formwork and temporary support.
- Install and remove precast concrete cladding, structural elements, flooring units and stairs.
- Position and fix manufactured pods.
- Position and fix steel elements, including columns, beams and sections.

### Knowledge requirements

On completion of this apprenticeship, construction assembly technicians will have the knowledge to:

- Understand the principles of health, safety and welfare and how they must be applied in relation to their work and to others.
- Understand the responsibilities under current legislation and official guidance to undertake the work.
- Understand how to communicate with others and follow organisational procedures to conform to productive work practices.
- Understand the different techniques and methods to move lift and handle, pre-assembled, manufactured elements.
- Understand how to interpret various types of information for drawings and specifications.
- Understand how to comply with specifications and drawings when assembling, positioning and fixing manufactured elements.
- Understand safe working practices for moving, lifting and handling pre-assembled, manufactured elements.
- Understand the different techniques and methods to move, handle and store resources.
- Understand the principles and practice of working at height and the use of access equipment
- Understand the principles of slinging and signalling.
- Understand the use of different materials and how they work together; metals that can be used together for load bearing and non-load bearing purposes
- Understand different methods of installation and removal of manufactured formwork and temporary support.
- Understand different methods of installation and removal of precast concrete cladding, structural elements, flooring units and stairs.
- Understand how to position and fix manufactured pods.
- Understand how to position and fix steel elements, including columns, beams and sections
- Understand the risks associated with installing offsite systems.

- Understand how off site construction projects operate as components are brought to site
- Understand the implications of working with off site manufactured components and the severity of potential outcomes if health and safety is not followed.
- Understand the complexity of logistics and moving and unloading of components and the regulations with regards to the New Roads and Street Works Act

### Behaviours

- **Effective communication:** oral, written, listening, body language, presentation.
- **Team work:** work effectively with others with limited supervision.
- **Independent working:** take responsibility for completion of your own work.
- **Logical thinking:** use clear and valid reasoning when making decisions to undertake the work instructions.
- **Working effectively:** undertake the work in a reliable and productive manner.
- **Time Management:** use own time effectively to complete the work instructions to schedule.
- **Adaptability:** be able to adjust to changes to the work instructions.

### Qualifications

Apprentices undertaking this standard will achieve the Level 2 National Vocational Qualification (NVQ) in Erection of Precast Concrete to confirm occupational competence-

Apprentices will also be required to meet the requirements of the relevant industry derived training specification to achieve and confirm the associated knowledge and skill requirements of this standard.

### Progression and Professional Recognition

Progression from the Level 2 Apprenticeship could lead to an occupational or site supervisory role within the construction industry.

This standard has been designed to deliver sufficient competence, underpinning knowledge and understanding in one or more of the identified job roles to allow apprentices to meet the requirements of the Construction Skills Certification Scheme (CSCS) or other industry affiliated schemes.

### English and Maths

Apprentices must complete, or have previously completed recognised transferable skills in English and Mathematics Level 1 qualifications and aspire to achieve English and Mathematics Level 2 qualifications.

### Review

This standard will be reviewed three years after its implementation.