

# ECIIPSP03

## Position and install pipework



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### Overview

This standard is about positioning and installing pipework within engineering construction.

You will need to be able to position and install pipework to the required standard taking into account the environmental considerations and adhering to health and safety legislation, regulations and safe working practices.

In the context of this standard, responsibility extends to meeting the required specification, raising such technical queries, as needed, to achieve the best possible results in the conditions applying. In some cases you may still be required to refer to others for final authorisation, even though you remain responsible for identifying and implementing decisions

#### **This standard is for**

This standard is for Pipefitters.

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### Performance criteria

- You must be able to:*
- P1 work safely at all times, complying with health and safety and other relevant legislation, regulations, guidelines and local rules or procedures
  - P2 ensure that the **work environment**, tools and equipment are suitably prepared for the work activities to be undertaken
  - P3 follow relevant drawings and specifications for the installation being carried out
  - P4 use the correct tools and equipment for the installation operations
  - P5 install, position and secure the pipework and respective components in line with the specification
  - P6 ensure all necessary connections to the pipework are complete
  - P7 check that the installation is complete and all components are free from damage
  - P8 **reinstate the work area**
  - P9 deal promptly and effectively with problems and report those that cannot be resolved

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### Knowledge and understanding

*You need to know and understand:*

- K1 relevant legislative, regulatory and local requirements or procedures
- K2 preparation and reinstatement requirements for positioning and installing pipework in respect of the work area, material and equipment, and the possible consequences of incorrect actions in these areas
- K3 **engineering drawings and related specifications**
- K4 installation methods and techniques
- K5 compliance checking methods and techniques
- K6 how to identify defects in **pipework components**
- K7 quality control procedures and documentation procedures
- K8 your responsibilities for ensuring the care and security of tools and equipment that you use
- K9 your responsibilities with regard to the reporting lines and procedures in your working environment

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### Additional Information

#### Scope/range

##### Work environment

Typical work environments could include:

- 1 at height
- 2 confined spaces
- 3 controlled operational and offshore installations
- 4 designated work areas
- 5 engineering construction sites
- 6 existing plants and structures
- 7 fabrication workshops
- 8 nuclear sites
- 9 onshore and offshore installations
- 10 potential explosive atmospheres
- 11 shafts
- 12 shipyards
- 13 tunnels
- 14 working inside plant and systems
- 15 working on access structures (scaffold)

##### Reinstate the work area

This term could include:

- 1 returning the work area to a safe condition
- 2 correctly disposing of waste materials
- 3 storage of re-usable materials, consumables and equipment in accordance with appropriate procedures
- 4 completion of all necessary documentation.

##### Engineering drawings and related specifications

These could include:

- 1 assembly
- 2 component
- 3 general arrangement
- 4 isometrics

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Specifications could include:

- 5 manufacturers' instructions
- 6 method statements
- 7 product worksheets

#### **Pipework components**

This term could include:

- 1 pipe lengths
- 2 prefabricated pipework assemblies
- 3 gaskets
- 4 bolt, nut and washer assemblies
- 5 screwed fittings
- 6 compression Fittings
- 7 flanged Fittings
- 8 plate
- 9 branches
- 10 tees
- 11 pipe reinforcements
- 12 pipework supports

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**Relevant occupations** Pipefitter

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**Suite** Installing Plant and Systems - Pipefitting

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