

## Perform onsite machining shaft turning activities

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### Overview

This standard is about performing onsite machining shaft turning using portable machining equipment in engineering construction.

You will need to be able to correctly set up specialist shaft turning machinery, and follow relevant specifications and engineering drawings to achieve shaft turning activities whilst adhering to Health and safety legislation, regulations and safe working practices.

In the context of this standard, your responsibility is to interpret and work within given specifications, selecting approved methods and techniques to achieve the best possible result. In some cases, you may still be expected to refer to others for final authorisation, even though you remain responsible for identifying and implementing decisions.

Who this standard is for

This standard is for Onsite Machinists.

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### Performance criteria

*You must be able to:*

1. work safely at all times, complying with health, safety, environmental and other relevant legislation, regulations, guidelines and local rules or procedures
2. ensure that the work environment, materials, tools and equipment are suitably prepared for the work activities to be undertaken
3. check that all safety mechanisms are in place
4. obtain and interpret the required specification
5. position and mount equipment
6. confirm that the tools and machines are:
  - correct size for work undertaken
  - fit for purpose
  - calibrated
7. move and position the equipment using correct manual handling techniques
8. carry out the shaft turning process in accordance with the method statement
9. check the completed shaft turning complies with the specification
10. ensure relevant people inspect the machining before the work area is reinstated
11. ensure the work area is reinstated
12. deal promptly and effectively with problems within your control and report those that have been and report those cannot be solved

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### Knowledge and understanding

*You need to know and understand:*

1. relevant legislative, regulatory and local requirements or procedures and safe working practices
2. preparation and reinstatement requirements in respect of the work area, material, and equipment, and the possible consequences of incorrect actions in these areas
3. risk assessments and method statements (RAMs) and other related documentation and procedures
4. engineering drawings and related specifications
5. the tools, terminology and practices used when performing onsite shaft turning before during and after work activities
6. specialist shaft turning equipment operating characteristics including:
  - operating characteristics
  - capabilities
  - attachments
  - installed safety mechanisms and features
7. how to check that the final shaft turning meets requirements and the related reporting procedure
8. tool and equipment control:
  - the correct use of relevant tools
  - equipment and your individual responsibility for the use
  - care and security of those you use

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