
Overview

This standard is about performing onsite machining, drilling and thread tapping activities using portable onsite machining equipment in engineering construction.

You will need to be able to correctly set up specialist drilling and thread tapping machinery and follow relevant specifications and engineering drawings to achieve drilling and thread tapping 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.

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. carry out an assessment of safe working practices
4. obtain and interpret the required specifications
5. confirm that the tools and machines are:
 - correct size for work undertaken
 - fit for purpose
 - calibrated
6. position and mount equipment using correct manual handling techniques
7. check that all safety mechanisms are in place
8. carry out the drilling and thread tapping process in accordance with the method statement
9. check the completed machining complies with the specification
10. ensure the 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

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 specifications:
 - the tools, terminology and practices used when performing onsite drilling and thread tapping before during and after work activities
5. specialist onsite drilling, thread tapping equipment including:
 - operating characteristics
 - capabilities
 - attachments
 - installed safety mechanisms and features
6. how to check that the final drilling and thread tapping meets requirements and the related reporting procedure
7. 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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Perform onsite machining, drilling and thread tapping activities



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