

CCSBS10

Back gouge welded units in blacksmithing



Overview

This standard is about back gouging in support of welding activities within the blacksmithing industry.

You will need to prepare the equipment and materials to for the welding activity reaching the required standard taking into account the environmental considerations whilst adhering to Health and safety legislation, regulations and safe working practices.

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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 and guidelines
- P2 ensure that work environment, materials, components, equipment and tools are appropriately prepared for the shaping operation to be undertaken
- P3 obtain and interpret the relevant drawings, instructions or specification
- P4 shape the material to the required specification using appropriate shaping methods and techniques
- P5 check the completed shaping operation to ensure it meets the specification
- P6 deal promptly with any problems and report any you cannot resolve
- P7 clean and tidy the work area

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Knowledge and understanding

You need to know and understand:

- K1 relevant legislative or regulatory requirements and guidelines
- K2 preparation and reinstatement requirements in respect of work environment, materials, components, equipment and tools
- K3 how to interpret engineering drawings, instructions and specifications
- K4 the safe and effective use of grinders and abrasive wheels and arc air carbon electrodes to back gouge to a required profile
- K5 material preparation and handling techniques
- K6 the types and uses of abrasive wheels, gouging power supplies and consumables and grinders
- K7 how to check compliance with specification and quality control in relation to defects
- K8 your responsibility for ensuring care and security of equipment and tools
- K9 your responsibility with regards to reporting lines and procedures

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Scope/range related to performance criteria

- 1 shaping methods and techniques to be used
 - 1.1 arc-air gouging
 - 1.2 flame gouging
 - 1.3 rod/electrode gouging
- 2 operation to be undertaken covers the back gouging of welded joints to a predetermined profile, followed by grinding as a preparation for repairs, or to complete the second side of a weld. This would involve the use of a profile gauge.
- 3 materials to be used
 - 3.1 compressed air
 - 3.2 oxy-fuel
 - 3.3 electrical rectifier or diesel generator

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