IMIARPO8
Use abrasives on automotive vehicles

Overview

This standard is about the ability to undertake abrasive activities on automotive vehicles.

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Performance criteria

You must be able to:

- P1 wear suitable personal protective equipment and use the specified environmental safety equipment throughout
- P2 ensure vehicle is suitably prepared prior to the abrasive operation
- P3 ensure correct use and care of abrasive product to maximise life span and minimise contamination
- P4 use the appropriate extraction equipment correctly
- P5 support vehicle refinishing operations by reviewing:
  - P5.1 product data
  - P5.2 the vehicle manufacturer's technical data
  - P5.3 work instructions
- P6 identify the body panel **substrate** accurately prior to undertaking any preparation work
- P7 take precautions to minimise the build-up of static during abrasive operations
- P8 prepare, check and adjust all the tools and equipment required, following manufacturer's instructions, prior to use
- P9 prepare all the refinishing systems and materials required following health and safety requirements and using:
  - P9.1 materials which conform to the specification required
  - P9.2 the manufacturer's approved method
  - P9.3 the manufacturer's approved equipment
- P10 carry out preparation techniques using materials and select the appropriate tools and equipment following:
  - P10.1 the manufacturer's instructions
  - P10.2 the correct methods and techniques
  - P10.3 health and safety requirements
- P11 ensure the finished surface is suitable to accept the next process
- P12 dispose of waste materials to conform with legal, environmental and workplace requirements
- P13 leave tools, equipment and work environment in a clean and serviceable condition, as appropriate

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P14 complete all refinishing activities within the agreed timescale to an agreed quality control process

P15 report any anticipated delays in completion to the relevant person(s) promptly

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Knowledge and understanding

You need to know and understand:

K1 the health and safety and environmental legislative requirements specific to vehicle refinishing operations and why it is important that these are followed

K2 workplace procedures and workshop practices relevant to personal and vehicle protection before, during and after vehicle preparation operations

K3 the importance of disposing of waste safely and the consequences of not doing so to the business, others and the environment

K4 the vehicle work specification agreed

K5 your workplace procedures for:

- K5.1 the referral of problems
- K5.2 reporting delays to the completion of work
- K5.3 personal protection

K6 the importance of working to agreed timescales and keeping others informed of progress

K7 the relationship between time, cost and productivity

K8 the importance of reporting anticipated delays to the relevant person(s) promptly

K9 how to prepare, check, adjust and use all the tools and equipment required for vehicle preparation operations

K10 how to prepare abrasive equipment and materials for use

K11 how to use and care for abrasive products

K12 the properties of abrasive materials and the factors affecting their use

K13 how to recognise damage to **substrates** and ancillary fittings

K14 how to recognise **substrates**

K15 how the **substrate** affects the preparation process

K16 how to interpret manufacturer's technical data

K17 how to prepare panels and parts adjacent to the area being painted

K18 the factors governing the choice of panel preparation methods for all the **substrates** listed in the Scoping Statement

K19 the types and grades of available abrasives and the factors governing their use for different **substrates**

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K20 methods of protecting panels and parts adjacent to the areas being painted and the circumstances in which they should be used

K21 the implications of not following the correct abrasive process and its effect on the overall quality process

K22 the implications of static when working with plastic components

K23 the importance of using and how to use extraction equipment

K24 the implications of cross-contamination of dissimilar metals when using abrasive and extraction equipment

K25 the implications of rectification identified by an agreed quality control process

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Scope/range

1. **Substrates** include**:**
   - 1.1. electro-coated panels
   - 1.2. repaired panels
   - 1.3. original manufacturer's finish
   - 1.4. plastic components
   - 1.5. zinc coated panels
   - 1.6. steel panels
   - 1.7. aluminium panels
   - 1.8. previously primed panels
   - 1.9. composite panels
   - 1.10. protection additive/film

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