

**Overview**

This unit is about joining materials effectively using adhesive bonding processes.

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**Performance  
criteria**

- You must be able to:**
- P1 use the appropriate personal protective equipment when carrying out adhesive processes
  - P2 protect the vehicle and its contents effectively when carrying out adhesive processes
  - P3 prepare material and align to enable suitable join to be achieved Adjoining edges must be treated before joining
  - P4 select and use the correct tools and equipment for carrying out adhesive processes
  - P5 ensure that the tools, equipment and PPE you require are in a safe working condition
  - P6 set up your equipment to carry out adhesive processes
  - P7 carry out adhesive processes following:
    - P7.1 recognised researched repair methods
    - P7.2 your workplace procedures
    - P7.3 health, safety and legal requirements
  - P8 avoid damaging other components, units and panels on the vehicle
  - P9 recognise when your join is not forming correctly and what action needs to be taken
  - P10 visually check integrity of the join
  - P11 dress and protect the repaired area to inhibit corrosion where applicable
  - P12 clean and store PPE and equipment in appropriate manner
  - P13 promptly report any additional faults you notice during the course of your work to the relevant person(s)
  - P14 promptly report any delays in completing your work to the relevant person(s)
  - P15 carry out adhesive processes within the agreed timescale
  - P16 complete work records accurately, in the format required and promptly pass them to the relevant person(s)

## Knowledge and understanding

You need to know and understand:

- K1 the health, safety and legal requirements relating to the joining of materials using adhesive processes
- K2 your workplace procedures for:
  - K2.1 the referral of problems
  - K2.2 reporting of delays to the completion of work
  - K2.3 completion of work records
- K3 the work that needs to be done and the standard required
- K4 the requirements for protecting the vehicle and contents from damage before, during and after the joining of materials using adhesive processes
- K5 the importance of selecting, using and maintaining the appropriate personal protective equipment when joining materials using adhesive processes
- K6 how to find, interpret and use sources of information applicable to the joining of materials using adhesive processes
- K7 how to select, check and use all the tools and equipment required to join materials using adhesive processes
- K8 the different types of techniques and joints used for the joining of materials when using adhesive processes
- K9 the faults that can occur when carrying and using adhesives and the causes of these faults
- K10 the need for correct alignment of materials and the methods used to achieve this
- K11 the types of quality control checks that can be used to ensure correct joining of materials
- K12 how to carry out and assess test coupons
- K13 the principles of good joint design for the type of adhesive being used

**Scope/range**

*All of the items listed below form part of this National Occupational Standard.*

1. **Personal protective equipment (PPE)** for bonding operations includes:
  - 1.1. face mask/respirator with appropriate eye shield
  - 1.2. gloves
  - 1.3. safety footwear
  - 1.4. appropriate vehicle protection
  - 1.5. appropriate protection for others in the workshop

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<b>Developed by</b>	IMI
<b>Version number</b>	1
<b>Date approved</b>	31 March 2023
<b>Indicative review date</b>	31 March 2026
<b>Validity</b>	Current
<b>Status</b>	Original
<b>Originating organisation</b>	IMI Ltd
<b>Original URN</b>	IMIBB25
<b>Relevant occupations</b>	Engineering; Vehicle Trades
<b>Suite</b>	Coachbuilding
<b>Key words</b>	Motor; vehicle; body; adhesive bonding; operations;

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