IMIVBR14 Identify and rectify major repairs to motor vehicle body panels	IMIARC14 Repair automotive body panels
Identity and rectify major repairs to motor venicle body panels	Overview
This standard is about repairing complex and difficult to access damage to a range of body panel types using a variety of preparation and reinstatement techniques, including hydraulic reforming and panel beating to retain panel contour and structural integrity.	This NOS is about repairing complex and difficult to access damage to a range of body panel types using a variety of preparation and reinstatement techniques, including hydraulic reforming and panel beating to regain panel contour.
Performance criteria You must be able to:	Performance criteria You must be able to:
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P2 select suitable personal protective equipment to wear and use vehicle coverings throughout all vehicle body panel repair activities	P1 wear suitable personal protective equipment and use vehicle coverings throughout all vehicle body panel repair activities (where appropriate) P2 assess the extent of the damage and verify it is a cosmetic repair
P1 identify component materials involved in the construction of the vehicle in the areas that will be worked on during repair, prior to working on the vehicle	P3 identify component materials involved in the construction of the vehicle in the areas that will be worked prior to work commencing
P3 inspect, prepare and use the tools and equipment required following manufacturers' instructions prior to use P4 use technical information to check that a repair is allowed	P4 inspect, prepare and use all the tools and equipment required following manufacturer's instructions prior to use
P5 ensure your methods of preparation leave sub-structure body panels clean, free from materials likely to hinder repair/replacement and free of surface finishes when required	P5 ensure your methods of preparation leave structural body panels:
	P5.1 clean and free from contamination
	P5.2 free from materials likely to hinder repair
	P5.3 free of surface finishes when required
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P6 prepare and reinstate vehicle body panels using the equipment recommended and following	P6 prepare and reinstate vehicle body panels using the equipment recommended and following:
P6.1 the equipment manufacturer's methods/instructions,	P6.1 the manufacturer's methods/instructions
P6.2 recognised researched repair methods,	P6.2 recognised researched repair methods
P6.3 your workplace procedure as well as	P6.3 your workplace procedures
P6.4 health, safety and legal requirements P7 promptly seek guidance from the relevant person(s) where there is the potential for	P6.4 health, safety and legal requirements P7 seek guidance from the relevant person(s) promptly where there is the potential for your
your work to disturb other vehicle systems	work to disturb other vehicle systems
	P8 ensure all test weld pieces conform to the current British Standard for appearance and
P8 ensure all repaired body panels are reinstated to their original specified shape,	penetration P9 ensure all repaired body panels are reinstated to their original specified shape and
strength and dimensions	dimensions
P9 complete repaired components to an agreed condition ready for refinishing processes	P10 complete repaired components to a condition ready for the refinishing processes
P10 complete all repair activities within the agreed timescale	P11 complete all repair activities within the agreed timescale
P11 promptly report any anticipated delays in completion to the relevant person(s)	P12 report any anticipated delays in completion to the relevant person(s) promptly
Knowledge and understanding	Knowledge and understanding
You need to know and understand:	You need to know and understand:
	You need to know and understand: Legislative and organisational requirements and procedures
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	K21 how to appraise a vehicle for unseen damage such as pedestrian zones
	K22 the consequences of not identifying unseen damage during the appraisal
K19 how to prepare the vehicle to avoid contamination	K23 how to prepare the vehicle to avoid contamination
K20 how to assess the extent of damage, including corrosion damage	K24 how to assess the extent of damage, including corrosion damage
K21 the principles of chassis frame and monocoque vehicle construction	K25 the principles of chassis, frame and monocoque vehicle construction K26 the principles of resistance spot welding, gas shielded plug welding and gas shielded brazing
K22 how body panel and component damage can affect other panels and the operation of vehicle systems	K27 how body panel and component damage can affect other panels and the operation of vehicle systems
K23 the factors determining the use of specific preparation and repair methods	K28 the factors determining the use of specific preparation and repair methods
K24 the repair and joining technique implications of working with mild, high and ultra high	K29 the repair and joining technique implications of working with mild, high and ultra high
strength steels, aluminium alloys, galvanised coatings	strength steels, aluminium alloys, galvanised coatings
K25 the consequences of using inappropriate repair methods K26 the principles associated with hot and cold shrinking	K30 the consequences of using inappropriate repair methods K31 the principles associated with hot and cold shrinking of stretched areas
K27 how heat can be used to assist reforming	K32 how heat can be used to assist reforming
K28 how heating can affect the properties of steels	K33 how heating can affect the properties of steels
K29 the techniques for identifying the type of plastics used for manufactured components	K34 the techniques for identifying the type of plastics used for manufactured components
K30 the procedures for reinstating anti-corrosion, sealant and sound deadening materials	K35 the procedures for reinstating anti-corrosion, sealant and sound deadening materials
K31 the causes and rectification of distortion resulting from welding	K36 the causes and rectification of distortion resulting from welding
K32 the manufacturer's approved methods of working for the preparation and repair of vehicle body panels and components and the implications of not following them	K37 the manufacturer's approved methods of working for the preparation and repair of vehicle body panels and components
K33 the specification for panel shapes, dimensions and tolerances for the vehicles worked upon	K38 the specification for panel shapes, dimensions and tolerances for the vehicles worked upon
K34 the type of quality control checks that can be used to ensure the correct contour and standard of finish	K39 the type of quality control checks that can be used to ensure the correct contour and standard of finish
K35 how to interpret and use sources of information relevant to the repair of vehicle body panels and components	K40 how to interpret and use sources of information relevant to the repair of vehicle body panels and components
K36 how to prepare damaged areas to facilitate repairs	K41 how to prepare damaged areas to facilitate repairs
K37 how to prepare the panel surface prior to filling	K42 how to prepare the panel substrate prior to filling
K38 how to repair corrosion damage	K43 how to repair corrosion damage
K39 how to remove protective materials K40 how to repair and reinstate vehicle body panel contours and retain structural integrity	K44 how to remove protective materials  K45 how to repair and reinstate vehicle body panel contours and components using all the
to components	reinstatement methods listed in the Scoping Statement below
K41 the techniques for reshaping damaged vehicle body panels using hand and specialist	K46 the techniques for reshaping damaged vehicle body panels using hand and specialist
tools	tools
K42 how to check the accuracy of reinstated vehicle body panel shape	K47 how to check the accuracy of reinstated vehicle body panel shape
K43 how to complete repair to an agreed condition ready for refinishing process K44 how to work safely avoiding damage to the vehicle and its systems	K48 how to finish repairs to a suitable condition for handing on to the painting stage  K49 how to work safely avoiding damage to the vehicle and its systems
K45 how pedestrian safety aspects affect the repairability of vehicles	K50 the pedestrian safety aspects of repair-ability of vehicles
K46 understand what can/can't be repaired for safety reasons (ADAS for example),	
manufacturer and industry agreed standards for these and why these standards must be	
adhered to	
Scono/rango	
	Scone/range
Scope/range All of the items listed below form part of this National Occupational Standard.	Scope/range
	Scope/range
All of the items listed below form part of this National Occupational Standard.  1. Repair activities are:	1 Repair activities are:
All of the items listed below form part of this National Occupational Standard.  1. Repair activities are: 1.1. correction of severely distorted panels	1 Repair activities are: 1.1. correction of severely distorted panels
All of the items listed below form part of this National Occupational Standard.  1. Repair activities are:	1 Repair activities are: 1.1. correction of severely distorted panels 1.2. difficult to access panel damage
All of the items listed below form part of this National Occupational Standard.  1. Repair activities are: 1.1. correction of severely distorted panels 1.2. to difficult to access panel damage	1 Repair activities are: 1.1. correction of severely distorted panels 1.2. difficult to access panel damage 1.3. splits on metal panels, using relevant joining technique
All of the items listed below form part of this National Occupational Standard.  1. Repair activities are: 1.1. correction of severely distorted panels	1 Repair activities are: 1.1. correction of severely distorted panels 1.2. difficult to access panel damage
All of the items listed below form part of this National Occupational Standard.  1. Repair activities are: 1.1. correction of severely distorted panels 1.2. to difficult to access panel damage  1.3. to fractures on plastic panels 2. Vehicle body panels are:	1 Repair activities are: 1.1. correction of severely distorted panels 1.2. difficult to access panel damage 1.3. splits on metal panels, using relevant joining technique 1.4. fractures to plastic panels 2 Vehicle body panels are:
All of the items listed below form part of this National Occupational Standard.  1. Repair activities are: 1.1. correction of severely distorted panels 1.2. to difficult to access panel damage  1.3. to fractures on plastic panels  2. Vehicle body panels are: 2.1. non-permanently fixed panels	1 Repair activities are: 1.1. correction of severely distorted panels 1.2. difficult to access panel damage 1.3. splits on metal panels, using relevant joining technique 1.4. fractures to plastic panels 2 Vehicle body panels are: 2.1. non-welded non-structural
All of the items listed below form part of this National Occupational Standard.  1. Repair activities are:	1 Repair activities are: 1.1. correction of severely distorted panels 1.2. difficult to access panel damage 1.3. splits on metal panels, using relevant joining technique 1.4. fractures to plastic panels  2 Vehicle body panels are: 2.1. non-welded non-structural 2.2. welded non-structural
All of the items listed below form part of this National Occupational Standard.  1. Repair activities are:	1 Repair activities are:  1.1. correction of severely distorted panels  1.2. difficult to access panel damage  1.3. splits on metal panels, using relevant joining technique  1.4. fractures to plastic panels  2 Vehicle body panels are:  2.1. non-welded non-structural  2.2. welded non-structural  2.3. welded structural panels
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All of the items listed below form part of this National Occupational Standard.  1. Repair activities are: 1.1. correction of severely distorted panels 1.2. to difficult to access panel damage  1.3. to fractures on plastic panels  2. Vehicle body panels are: 2.1. non-permanently fixed panels 2.2. permanently fixed component 2.3. sub-structure component 2.4. bonded panels  3. Reinstatement methods are: 3.1. panel beating 3.2. panel shrinking 3.3. hydraulic reforming  3.4. body filling operations 3.5. metal finishing 3.6. plastic repair 3.7. specialist dent removal methods  4. Tools and Equipment are: 4.1. workshop equipment	1 Repair activities are: 1.1. correction of severely distorted panels 1.2. difficult to access panel damage 1.3. splits on metal panels, using relevant joining technique 1.4. fractures to plastic panels  2 Vehicle body panels are: 2.1. non-welded non-structural 2.2. welded non-structural 2.3. welded structural panels 2.4. bonded panels  3 Reinstatement methods are: 3.1. panel beating 3.2. panel shrinking 3.3. hydraulic reforming 3.4. resistance spot welding 3.5. MIG/MAG welding 3.6. MIG brazing 3.7. body filling operations 3.8. metal finishing 3.9. plastic repair 3.10. specialist dent removal methods  4 Substrates are: 4.1. electro-coated panels
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