

Accident Repair Technician

Apprenticeship Standard for Automotive Bodyshop Industry

Occupation - Overview of the role.

A motor vehicle Accident Repair Technician repairs all elements of a vehicle after it has sustained some type of collision damage. These range from small damage through to heavily impacted types of damage requiring complex and detailed repair or replacement of major structural elements of the vehicle. Typically, the Accident Repair Technician works in a modern highly technical workshop-type environment, working on a broad range of vehicles from cars and car derived vans to light commercial vehicles.

Uniquely, they work on and obtain a level of competence in all craft aspects of vehicle accident repair, including Mechanical, Electrical & Trim (MET); Panel Repair & Replacement; Preparation and Paint – not just one as has been the case in the past. Additionally the Accident Repair Technician is able to interpret and work accurately to detailed and complex technical repair specifications / instructions and, at times, obtain these instructions from a range of electronic sources. An Accident Repair Technician has the ability to work in a focused, analytical and methodical fashion, completing repairs on time, every time with a right-first-time, customer focused culture under-pinning all their activities.

The Accident Repair Technician from day one embraces the need to put complete customer satisfaction, as well as commercial awareness, at the centre of everything they do. The ability to excel whilst working within a team is a key output for any Accident Repair Technician.

Programme duration

Typically this apprenticeship will take 2 years to complete.

Entry requirements

Individual employers will set their own selection criteria for applicants. In order to optimise success, typical applicants will display a good attitude, a positive approach to learning & development and a high level of ambition. Apprentices without Level 2 English and maths will need to achieve this level prior to taking the end-point assessment.

Discipline	Knowledge A competent Accident Repair Technician has a good understanding of:	Skills A competent Accident Repair Technician is able to:
Mechanical, Electrical and Trim (MET)	<ul style="list-style-type: none"> • How all types of engines and propulsion systems function. • How electrically propelled and hybrid vehicles function. • How sub systems of lubrication, cooling, fuel, ignition, intake and exhaust systems operate. • How transmission, driveline & final drive systems operate. • Vehicle suspension, steering, brakes, wheels and tyre systems. • Vehicle electrical principles. • Vehicle electrical systems and components. 	<ul style="list-style-type: none"> • Remove all damaged & associated components from a vehicle. • Re-assemble replacement or existing components to a vehicle. • Remove and re-assemble permanent & non-permanent fixed vehicle body panels • Remove and refit all types of vehicle body panels. • Remove and refit trim components. • Identify and describe principle vehicle electrical components and systems. • Diagnose and rectify basic vehicle electrical faults.

<p>Panel Repair & Replacement</p>	<ul style="list-style-type: none"> • Vehicle thermal welding operations & techniques. • Vehicle bonding and adhesives procedures. • Vehicle body mechanical fastening operations. 	<ul style="list-style-type: none"> • Repair all types of vehicle body panels. • Repair or refurbish Trim components. • Repair vehicles using thermal welding operations and processes. • Repair vehicles using non thermal joining, bonding and adhesive processes. • Remove, repair and replace structural body panels. • Identify and rectify vehicle body structural misalignment.
<p>Preparation & Paint</p>	<ul style="list-style-type: none"> • The various types of filler & foundation materials. • The different materials used in vehicle construction. • The preparation techniques required for different materials & surfaces. • Paint, basecoat & topcoats. • The refinishing process. • Which techniques & products to employ with each type of repair process. 	<ul style="list-style-type: none"> • Apply body filler & foundation materials. • Prepare all types of vehicle body material. • Prepare & refinish metal, plastic and pre-painted surfaces. • Repair minor defects in all types of body panels and materials. • Apply paint, primer and basecoat • Apply topcoats and clear coats and complete final refinishing operations. • Identify and rectify paint or preparation defects.
<p>Cross-cutting</p>	<ul style="list-style-type: none"> • Health and safety in the workplace as it relates to the accident repair environment. • The structure of their organisation, and where they work within that. • Tools & equipment and vehicle construction methods used in the accident repair workplace. 	<ul style="list-style-type: none"> • Carry out their work safely in the workplace and adhere to relevant health and safety requirements. • Develop strong working relationships.

Behaviours

A competent Accident Repair Technician demonstrates the following behaviours:

- The adoption at all times of a good health and safety first mentality as standard practice.
- A customer first approach when dealing with owners of vehicles and other clients.
- Recognises that high quality is intrinsic in every activity throughout the accident repair process.
- A strong and positive work ethic.
- The ability to work in a team and be a good team member.
- A positive attitude. Good aptitude. Excellent ambition.
- Effective communication throughout the repair process, both with clients and with other members of the team.

Level and review

- This apprenticeship is at Level 3 and will be reviewed after 3 years.