

## Occupational Requirements – Light Vehicle Mechanical Technology

Applicants seeking recognition of their qualifications<sup>1</sup> or experience in relation to the automotive trade will need to demonstrate knowledge and understanding of the occupational requirements listed below.

Successful recognition of these qualifications or experience will result in the applicant gaining the **Occupational Certificate as a Light Vehicle Mechanical Technician**.

### Workplace and business

- Follow environmental and sustainability best practice in an automotive workplace
- Follow safe working practices in an automotive workplace
- How products should be displayed for sale
- Importance of displays and notices as sales and communication tools
- Importance of own appearance when in public view and dealing with customers
- Pre-ordering goods and materials accurately for planned work
- Preparing products within prescribed costs
- Principles of business
- Prioritising and planning work effectively within an automotive timeframe, including production schedule
- Receiving, handling, and managing stock, including pre-ordering for future use and/or planned work
- Use and maintain tools and equipment in an automotive workplace

### Work health and safety, and product safety

- Cleaning and sanitising of work areas, tools, and equipment
- Environmentally sustainable work practices, minimising waste and maximising sustainability
- Safe hygiene, health and work practices, paying attention to the workplace and people in it
- Understanding and complying with work healthy and safety, and implementing safe work practices

### Communication

- Communicate effectively in an automotive workplace
- Having professional conversations with customers that meet their expectations
- Importance of effective communications across teams, colleagues, contractors, suppliers, and other professionals

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<sup>1</sup> Where these qualifications have not been obtained under a training contract (apprenticeship).

- Providing advice and guidance about specialist matters to managers, colleagues, and customers, as required
- Reacting professionally and effectively in unexpected situations
- Respond to customer needs and enquires in an automotive workplace

### Specific skills

- Diagnose and repair:
  - Charging systems
  - Cooling systems
  - Ignition systems
  - Light vehicle
  - emission control systems
  - Engines
  - hydraulic braking systems
  - steering systems
  - suspension systems
  - Spark ignition engine management systems
  - Starting systems
- Inspect and service:
  - Braking systems
  - Engines
  - Petrol furl systems
- Test and repair basic electrical circuits
- Test, charge and replace batteries and jump-start vehicles
- Carry out servicing operations
- Develop and carry out diagnostic test strategies
- Working to deadlines

### Additional skills to consider

- Apply knowledge of ADAS technology to vehicle pre-repair scans
- Assemble and fit braking system components
- Balance wheels and tyres
- Carry out:
  - Soft soldering techniques
  - Mechanical pre-repair operations
  - Vehicle safety inspections
  - Light vehicle wheel alignment operations
- Depower and reinitialise:
  - Hybrid electric vehicles
  - Battery electric vehicles
- Diagnose and repair:
  - Air conditioning and HVAC components

- Automotive electrical systems
- Compression ignition engine management systems
- Electronic body management systems
- Electronically controlled steering systems
- Electronically controlled suspension systems
- Exhaust systems
- Instruments and warning systems
- Integrated engine and transmission management systems
- Light vehicle
  - automatic transmissions
  - clutch systems
  - diesel fuel injection systems
  - drive shafts
  - final drive assemblies
  - manual transmissions
  - mechanical fuel injection systems
  - Network electronic control systems
  - Vehicle dynamic control systems
  - Engine forced-induction systems
  - Petrol carburettor systems
- Inspect and maintain battery electric vehicles\*
- Inspect and service:
  - Automatic transmissions
  - Cooling systems
  - Diesel fuel injection systems
  - Drive shafts
  - Final drive assemblies
  - Manual transmission
  - Steering system
  - Suspension systems
- Inspect damaged vehicle systems and recommend repairs
- Install basic ancillary electrical systems and components
- Machine Brake drums and Brake disc rotors
- Remove and install light vehicle engine assemblies
- Remove, inspect and refit light vehicle wheel and tyre assemblies
- Remove, inspect, repair and refit light vehicle tyres and tubes
- Repair wiring harnesses and looms
- Retrofit automotive and modify air conditioning and HVAC systems
- Select and instal performance enhanced suspension system products
- Select and use bearings, seals, gaskets, sealants and adhesives
- Select light vehicle tyres and wheels for specific applications
- Service air conditioning and HVAC systems

- Service and maintain electrical components in hybrid electric vehicles
- Service and repair light vehicle lift assisted suspension systems
- Use and maintain measuring equipment in an automotive workplace

### Note

A successful automotive technician requires a well-rounded skill set that extends beyond technical proficiency alone. Strong diagnostic and problem-solving capabilities are essential for identifying faults efficiently and delivering effective repair solutions. Equally important are interpersonal and communication skills, which enable technicians to work collaboratively within teams and maintain professional relationships with customers and industry stakeholders.

Furthermore, the automotive industry continues to evolve rapidly, driven by advancements in vehicle technology, electronics, and alternative powertrains. As such, a commitment to continuous learning and the ability to adapt to emerging technologies are critical for long-term success. By developing and maintaining these competencies, aspiring automotive technicians can significantly enhance their employability, professional effectiveness, and overall contribution to the automotive industry.