

Apprenticeship and Industry Training

Apprenticeship Core Competence Statements

Automotive Service Technician



Apprenticeship
and Industry
Training



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Core competence statements

Apprenticeship and Industry Training (AIT) defines the core competences as the capabilities needed for each profession. AIT works with subject matter experts from across Alberta, including individuals from industry, associations, trade organizations and post-secondary institutions, to identify the core competences for each designated trade.

Breakdown of core competence statements

Core competence statements

These are a list of specific tasks that require essential skills, knowledge, activities, or functions for someone to be deemed proficient in their trade.

Section title

This term provides a heading and overview of the content, category of related topics and is crafted from tasks found within a trade's Board Order.

Competence statement

An observable major task, work activity, or outcome that an entry-level journey person performs on-the-job.

Competences

The skills and knowledge demonstrated on-the-job and in classroom instruction that supports achievement of the competence statement by an apprentice or journey person in their skilled trade.

Profile

A profile for an apprenticeship education program in Alberta outlines the specific skills, knowledge, abilities, and behaviours necessary to work in a profession. The profile consists of a set of core competence statements, a curriculum guide, a record book and supporting documents.

NOTE: These documents are available on the Apprenticeship and Industry Training website tradesecrets.alberta.ca.



Automotive service technician trade

A journeyperson automotive service technician is an individual who will be able to:

- Understand and comply with all applicable safety standards and regulations.
- Repair, diagnose, maintain, overhaul, and modify a motor vehicle.
- Comprehend work orders, technical bulletins, estimates, and use technical service information for the activity at hand.
- Interpret warranty policy in terms of service reports, component failures and analysis records.
- Perform assigned activities in accordance with quality, safety, and production standards required by industry.

Core competences

Automotive Service Technician Core Competences:

1. Foundational Skills
2. Job Practices and Procedures
3. Shop Equipment and Tools
4. Maintenance Services
5. Inspect, Test, and Analyze
6. Diagnostics
7. Systems Repair

Core Competence 1: Foundational Skills

Core Competence Statement:



Apply foundational skills essential to convey and receive critical training and workplace information.

Competences:

- Demonstrate problem solving.
- Demonstrate digital literacy.
- Demonstrate team and customer communication.
- Demonstrate mentorship.
- Demonstrate knowledge of mechanical and electrical fundamentals.

Core Competence 2: Job Practices and Procedures

Core Competence Statement:



Apply knowledge and understanding of practices and procedures associated with on-the-job activities.

Competences:

- Apply standards and regulations.
- Apply organizational and manufacturer's specifications.
- Select, use, and maintain personal protective equipment.
- Demonstrate safety awareness and safe work practices.
- Organize work.

Core Competence 3: Shop Equipment and Tools**A) Core Competence Statement:**

Demonstrate knowledge, understanding, and proficiency regarding the use and maintenance of tools and shop equipment.

Competences:

- Select, use, and maintain hand tools.
- Select, use, and maintain power tools.
- Select, use, and maintain specialty tools.
- Select, use, and maintain shop equipment.
- Select, use, and maintain diagnostic equipment.
- Select and use fastening devices.

B) Core Competence Statement:

Demonstrate knowledge, understanding, and proficiency when heating and cutting with oxy-fuel equipment and when welding with gas metal arc welding (GMAW) equipment.

Competences:

- Demonstrate handling procedures for oxy-fuel and GMAW equipment.
- Use oxy-fuel equipment for heating and cutting and GMAW equipment for welding.

Core Competence 4: Maintenance Services

Core Competence Statement:



Demonstrate knowledge, understanding, and proficiency when performing motor vehicle maintenance services.

Competences:

- Perform motor vehicle maintenance services on propulsion systems.
- Perform motor vehicle maintenance services on fuel systems.
- Perform motor vehicle maintenance services on emission control systems.
- Perform motor vehicle maintenance services on braking systems.
- Perform motor vehicle maintenance services on steering systems.
- Perform motor vehicle maintenance services on suspension systems.
- Perform motor vehicle maintenance services on drive train systems.
- Perform motor vehicle maintenance services on heating, ventilation, and air conditioning systems.
- Perform motor vehicle maintenance services on light utility trailers.
- Perform motor vehicle maintenance services on oils, fluids, and greases.
- Perform motor vehicle maintenance services on filters, gaskets, and sealants.
- Perform motor vehicle maintenance services on tires and wheels.
- Perform motor vehicle maintenance services on belts and hoses.
- Perform motor vehicle maintenance services on electrical storage devices.

Core Competence 5: Inspect, Test, and Analyze

Core Competence Statement:



Demonstrate knowledge, understanding, and proficiency regarding the inspection, testing, and analysis of motor vehicle systems.

Competences:

- Inspect, test, and analyze motor vehicle propulsion systems.
- Inspect, test, and analyze motor vehicle fuel systems.
- Inspect, test, and analyze motor vehicle emission control systems.

Competences:

- Inspect, test, and analyze motor vehicle braking systems.
- Inspect, test, and analyze motor vehicle steering systems.
- Inspect, test, and analyze motor vehicle suspension systems.
- Inspect, test, and analyze motor vehicle drive train systems.
- Inspect, test, and analyze motor vehicle management systems.
- Inspect, test, and analyze motor vehicle electrical systems.
- Inspect, test, and analyze motor vehicle heating, ventilation, and air conditioning systems.
- Inspect, test, and analyze motor vehicle occupant crash protection systems.
- Inspect, test, and analyze motor vehicle light utility trailers.
- Inspect, test, and analyze motor vehicle tires and wheels.
- Inspect, test, and analyze motor vehicle electrical storage devices.

Core Competence 6: Diagnostics**Core Competence Statement:**

Demonstrate knowledge, understanding, and proficiency when performing motor vehicle system diagnostics.

Competences:

- Perform motor vehicle diagnostics for propulsion systems.
- Perform motor vehicle diagnostics for fuel systems.
- Perform motor vehicle diagnostics for emission control systems.
- Perform motor vehicle diagnostics for braking systems.
- Perform motor vehicle diagnostics for steering systems.
- Perform motor vehicle diagnostics for suspension systems.
- Perform motor vehicle diagnostics for drive train systems.
- Perform motor vehicle diagnostics for vehicle management systems.
- Perform motor vehicle diagnostics for electrical systems.
- Perform motor vehicle diagnostics for heating, ventilation, and air conditioning systems.
- Perform motor vehicle diagnostics for occupant crash protection systems.
- Perform motor vehicle diagnostics for light utility trailers.

Competences:

- Perform motor vehicle diagnostics for tires and wheels.
- Perform motor vehicle diagnostics for electrical storage devices.

Core Competence 7: Systems Repair**Core Competence Statement:**

Demonstrate knowledge, understand, and proficiency when performing motor vehicle system repairs.

Competences:

- Perform motor vehicle repairs on propulsion systems.
- Perform motor vehicle repairs on fuel systems.
- Perform motor vehicle repairs on emission control systems.
- Perform motor vehicle repairs on braking systems.
- Perform motor vehicle repairs on steering systems.
- Perform motor vehicle repairs on suspension systems.
- Perform motor vehicle repairs on drive train systems.
- Perform motor vehicle repairs on vehicle management systems.
- Perform motor vehicle repairs on electrical systems.
- Perform motor vehicle repairs on heating, ventilation, and air conditioning systems.

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