

Automotive Service Technician (AST) Apprenticeship Curriculum Mapping

Program Curriculum

A collection of 15 CTS courses has been developed to align with the current Automotive Service Technician Course Outline. These courses, when combined, cover the First Period technical training content.

Alberta Apprenticeship Training Profile First Period	CTS Course Alignment to Apprenticeship First Period Topics	Assessment
Topic	CTS Course Number and Name	
SECTION ONE – SAFETY, MATERIALS AND TOOLS		
Safety Legislation, Regulations and Industry Policy in the Trades	ASA3900: Apprenticeship Safety	
Climbing, Lifting, Rigging and Hoisting		
Hazardous Materials and Fire Protection		
Communication		
Measuring Tools	ASA3400: Basic Tools & Materials	
Specialty Hand Tools		
Fastening Devices		
Electronic Service Information	ASA3402: Vehicle Service Information	
Oxyacetylene Heating and Cutting		
SECTION TWO – SUSPENSION AND STEERING		
Frames	ASA3415: Frames & Undercarriage	
Suspension and Steering Linkage Systems		
Electric Assist Steering	ASA3420: Steering Systems	
Hydraulic Assist Steering		
Steering Angles	ASA3425: Suspension Systems	
Suspension and Steering Diagnosis		
Alignment Procedures	ASA3430: Alignment Procedures	
Steering Columns		
Drive Shafts	ASA3450: Wheels & Drive Lines	
Wheels, Hubs and Tires		
SECTION THREE – BRAKE SYSTEMS		
Brake System Fundamentals	ASA3435: Brake Fundamentals	
Hydraulic System Components		

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Topic	CTS Course Number and Name	
SECTION THREE – BRAKE SYSTEMS CONTINUED		
Drum Brake Systems	ASA3440: Disc & Drum Brakes	
Disc Brake Systems		
Power Brakes	ASA3445: Brake System Repairs	
Brake System Diagnosis and Service		
SECTION FOUR – ELECTRICAL		
Electrical Fundamentals I	ASA3405: Electrical Principles	
Fundamentals of Magnetism		
Batteries		
Electrical Circuits I	ASA3410: Electrical Circuits	
Electrical System Diagnosis I	ASA3412: Electrical Service	
Scan Tools	ASA3402: Vehicle Service Information	
SECTION FIVE – BASIC MAINTENANCE		
Basic Maintenance	ASA3452: Maintenance & Trailers	
Light Utility Trailers		
CTS COURSES THAT ALLOW STUDENTS ADDITIONAL PRACTICAL TIME THE HOURS REPRESENTED BY THESE FOUR COURSES ARE OVER AND ABOVE THE 375 HOURS.		
	ASA3455: ASA Practicum A	
	ASA3460: ASA Practicum B	
	ASA3465: ASA Practicum C	
	ASA3470: ASA Practicum D	