

Automotive Brake Specialist

Postsecondary Technical Certificate 11 Credits

ASE 151	Automotive Brake Systems	2
ASE 163	Introduction to Automotive Electronics	5
ASE 184	Basic Computer Controlled Engines Systems	2
ASE 252	Antilock & Power Brake Systems	2

ASE 163	Introduction to Automotive Electronics	5
ASE 242	Advanced Suspension & Steering Systems	2

Automotive Electronics Specialist

Postsecondary Technical Certificate 14 Credits

ASE 163	Introduction to Automotive Electronics	5
ASE 184	Basic Computer Controlled Engines Systems	2
ASE 185	Ignition Systems	2
ASE 262	Automotive Electronics	2
ASE 264	Advanced Automotive Electronic Component Testing and Safety	3

Automotive Engine Performance Specialist

Postsecondary Technical Certificate 24 Credits

ASE 163	Introduction to Automotive Electronics	5
ASE 184	Basic Computer Controlled Engines Systems	2
ASE 185	Ignition Systems	2
ASE 262	Automotive Electronics	2
ASE 285	Gasoline Fuel Injection Systems	3
ASE 286	Computer Controlled Engines Systems	3
ASE 287	Emission Control Systems	3
ASE 288	On Board Diagnostics II	1
ASE 294	Automotive Trends	3

Automotive Engine Repair Specialist

Postsecondary Technical Certificate 8 Credits

ASE 111	Basic Power Plant Systems	2
ASE 112	Upper Power Plant Systems	2
ASE 113	Lower Power Plant Systems	2
ASE 185	Ignition Systems	2

Automotive Heating & Air Conditioning Specialist

Postsecondary Technical Certificate 18 Credits

ASE 163	Introduction to Automotive Electronics	5
ASE 172	Basic Heating and Air Conditioning	4
ASE 184	Basic Computer Controlled Engines Systems	2
ASE 262	Automotive Electronics	2
ASE 272	Advanced Heating and Air Conditioning	2
ASE 286	Computer Controlled Engines Systems	3

Automotive Power Trains, Suspension & Steering Specialist

Postsecondary Technical Certificate 11 Credits

ASE 131	Manual Drivetrain & Axles	2
ASE 141	Automotive Suspension & Steering Systems	2



DIESEL TECHNOLOGY

Intended Learning Outcomes

- Use current technical diagnostic procedures to diagnose and repair to industry standards all eight areas of heavy duty trucks and equipment.
- Demonstrate by performing all safety procedures including the use of tools and equipment during all related shop activities.
- Locate and use current repair procedures and information from computer based programs and written text.
- Understand, demonstrate, and value attributes of professionalism.
- Properly prepare hand written and electronic documents that are accurate, legible, and clearly understood.

Diesel Technology

Associate of Applied Science Degree 80 Credits

Semester 1

ASE 141	Automotive Suspension & Steering Systems	2
ASE 163	Introduction to Automotive Electronics	5
ASE 172	Basic Heating and Air Conditioning	4
ASE 185	Ignition Systems	2
MAT 110	Technical Mathematics	3
MTD 101	Industrial Safety and Report Writing	3

Semester 2

ASE 111	Basic Power Plant Systems	2
ASE 112	Upper Power Plant Systems	2
ASE 113	Lower Power Plant Systems	2
ASE 121	Automatic Transmissions	3
ASE 131	Manual Drivetrain & Axles	2
ASE 151	Automotive Brake Systems	2
ENG 101	English Composition	3

Summer Term

PSY 101	Introduction to Psychology	3 OR
SOC 101	Introduction to Sociology	3
	General Education Elective	3

Semester 3

ASE 233	Heavy Duty Drivetrain/Transmissions and Clutches	3
ASE 243	Heavy Duty Suspension and Steering	2
ASE 253	Air Brake Systems	2
ASE 266	Diesel Electrical Systems	5
ASE 272	Advanced Heating and Air Conditioning	2
ASE 291	Fluid Power Systems	2
COM 101	Fundamentals of Speech	3

Semester 4

ASE 102	Workplace Technical Skills	3
ASE 214	Diesel Engine Rebuilding	2
ASE 216	Diesel Engine Service	2
ASE 284	Light Truck Diesel Fuel Injection Systems	2
ASE 289	Heavy Duty Diesel Fuel Injection Systems	2
ASE 292	Computer Engine Controls for Diesel Engines	5

Night Course Fall or Spring Semester

MAT 123	Mathematics in Modern Society	4 AND
MAT 123L	Mathematics in Modern Society Lab	0 OR
MAT 143	College Algebra	4

Enhancements

CIS 101	Computer Information Systems	3
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Diesel Technology

Advanced Technical Certificate 64 Credits

Semester 1

ASE 141	Automotive Suspension & Steering Systems	2
ASE 163	Introduction to Automotive Electronics	5
ASE 172	Basic Heating and Air Conditioning	4
ASE 185	Ignition Systems	2
MAT 110	Technical Mathematics	3
MTD 101	Industrial Safety and Report Writing	3

Semester 2

ASE 111	Basic Power Plant Systems	2
ASE 112	Upper Power Plant Systems	2
ASE 113	Lower Power Plant Systems	2
ASE 121	Automatic Transmissions	3
ASE 131	Manual Drivetrain & Axles	2
ASE 151	Automotive Brake Systems	2

Semester 3

ASE 233	Heavy Duty Drivetrain/Transmissions and Clutches	3
ASE 243	Heavy Duty Suspension and Steering	2
ASE 253	Air Brake Systems	2
ASE 266	Diesel Electrical Systems	5
ASE 272	Advanced Heating and Air Conditioning	2
ASE 291	Fluid Power Systems	2

Semester 4

ASE 102	Workplace Technical Skills	3
ASE 214	Diesel Engine Rebuilding	2
ASE 216	Diesel Engine Service	2
ASE 284	Light Truck Diesel Fuel Injection Systems	2
ASE 289	Heavy Duty Diesel Fuel Injection Systems	2
ASE 292	Computer Engine Controls for Diesel Engines	5

Enhancement

CIS 101	Computer Information Systems	3
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Diesel Engine Specialist

Postsecondary Technical Certificate 29 Credits

ASE 111	Basic Power Plant Systems	2
ASE 112	Upper Power Plant Systems	2
ASE 113	Lower Power Plant Systems	2
ASE 163	Introduction to Automotive Electronics	5
ASE 214	Diesel Engine Rebuilding	2
ASE 216	Diesel Engine Service	2
ASE 266	Diesel Electrical Systems	5
ASE 284	Light Truck Diesel Fuel Injection Systems	2
ASE 289	Heavy Duty Diesel Fuel Injection Systems	2
ASE 292	Computer Engine Controls for Diesel Engines	5

Diesel Fuel Injection Specialist

Postsecondary Technical Certificate 19 Credits

ASE 163	Introduction to Automotive Electronics	5
ASE 266	Diesel Electrical Systems	5
ASE 284	Light Truck Diesel Fuel Injection Systems	2
ASE 289	Heavy Duty Diesel Fuel Injection Systems	2
ASE 292	Computer Engine Controls for Diesel Engines	5

Diesel Heavy Duty Brake Specialist

Postsecondary Technical Certificate 14 Credits

ASE 151	Automotive Brake Systems	2
ASE 163	Introduction to Automotive Electronics	5
ASE 253	Air Brake Systems	2
ASE 292	Computer Engine Controls for Diesel Engines	5

Diesel Heavy Duty Drive Train Specialist

Postsecondary Technical Certificate 12 Credits

ASE 131	Manual Drivetrain & Axles	2
ASE 163	Introduction to Automotive Electronics	5
ASE 233	Heavy Duty Drivetrain/Transmissions and Clutches	3
ASE 291	Fluid Power Systems	2

Diesel Heavy Duty Electrical Systems Specialist

Postsecondary Technical Certificate 15 Credits

ASE 163	Introduction to Automotive Electronics	5
ASE 266	Diesel Electrical Systems	5
ASE 292	Computer Engine Controls for Diesel Engines	5