

SERVICE TECHNICIAN CURRICULUM IN DETAIL

Your people are your greatest asset—and developing them is the key to lasting success. HDA Truck Pride University was created to empower our members with high-quality, industry-specific training that grows knowledge, builds confidence, and drives performance. With expertly curated courses, curriculums, and resources, our platform transforms learning into a competitive advantage.

The Service Technician Curriculum builds the technical expertise and problem-solving skills needed to keep the heavy-duty industry running strong. Covering safety, diagnostics, and key vehicle systems, each module deepens understanding and sharpens performance. This curriculum prepares technicians to meet today's service demands with knowledge, precision, and confidence.

- Courses - Single piece of learning (containing videos, documentation and tests)
- Modules - Sections of learning topics that make up a curriculum
- Curriculums - Structured outline that guides a learner through a set learning path
- Channel Resources - Houses tip sheets, spec charts, etc. for 40+ topics.

The Technician (Approx. 5 Hr 57 Mins)

Module	Description	Skills	Timing
Module 01 - Introduction	This is an introduction to the heavy duty industry intended for service technicians.	<ul style="list-style-type: none">• Industry & Product Knowledge• Attitude• Work Ethic	1H 40M
Module 02 - Basic Safety	This covers basic safety concepts for service technicians.	<ul style="list-style-type: none">• Workplace Safety• Forklift Safety• Eyewash Station	2H 44M

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Module	Description	Skills	Timing
Module 03 - Soft Skill	This covers soft skills for service technicians. Topics include communication, work ethic, and problem solving.	<ul style="list-style-type: none">• Critical Thinking• Problem Solving• Communication• Time Management	1H 33M

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The Basics

(Approx. 12 Hr 48 Mins)

Module	Description	Skills	Timing
Module 04 - Basic Systems Introduction	This is a general introduction to basic systems for service technicians. Topics include basic truck and trailer systems.	<ul style="list-style-type: none"> Types of Commercial Vehicles Types of Trailers System Overview 	1H 51M
Module 05 - Responsibilities Overview	This covers a general overview of the responsibilities a service technician will take upon accepting the job.	<ul style="list-style-type: none"> Work Orders Heavy Duty Career Parts Failure Analysis 	2H 45M
Module 06 - Tools, Equipment and Precision Measuring	This covers an introduction to the HD/CV industry intended for service technicians. Topics include tools, equipment and precision measuring.	<ul style="list-style-type: none"> Precision Measurement Torque 	2H 54M
Module 07 - Shop Math and Calculations	This covers an introduction to basic shop math and calculations intended for service technicians.	<ul style="list-style-type: none"> Scientific Principles Math Horsepower 	54M

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Module	Description	Skills	Timing
Module 08 - Fasteners	This covers an overview of fasteners intended for service technicians.	<ul style="list-style-type: none">• Torque Wrench• Thread Repair	3H 18M
Module 09 - Repair Strategies and Service Information	This covers basic repair strategies intended for service technicians. Topics include diagnostics and service information.	<ul style="list-style-type: none">• Diagnostics• Date Codes	1H 6M

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The Vehicle Chassis Systems

(Approx. 36 Hr 27 Mins)

Module	Description	Skills	Timing
Module 10A - Chassis Systems: Air Systems and S-Cam Drum Brakes	This covers the first part of the chassis systems learning plan intended for service technicians. Topics include air cam and drum brakes.	<ul style="list-style-type: none"> • S-Cam Drum Brakes • Intro to Air Systems 	15H 12M
Module 10B - Chassis Systems: Air Disc Brake	This covers the second part of the chassis systems learning plan intended for service technicians. Topic includes air disc brakes.	<ul style="list-style-type: none"> • Air Disc Brake 	3H 18M
Module 10C - Chassis Systems: Wheel End Hubs and Bearings	This covers the third part of the chassis systems learning plan intended for service technicians. Topics include wheel end hubs and bearings.	<ul style="list-style-type: none"> • Hubs • Bearings • Seals 	4H 21M
Module 10D - Chassis Systems: Hydraulic Brakes	This covers the fourth part of the chassis systems learning plan intended for service technicians. Topics include hydraulic brakes.	<ul style="list-style-type: none"> • Master Cylinders • Wheel Cylinders • Disc Brakes 	4H 35M

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Module	Description	Skills	Timing
Module 10E - Chassis Systems: Suspension Systems	This covers the fifth part of the chassis systems learning plan intended for service technicians. Topics include suspension systems.	<ul style="list-style-type: none"> • Air Springs • Control Arms • Air Bags 	2H 32M
Module 10F - Chassis Systems: Steering Systems	This covers the sixth part of the chassis systems learning plan intended for service technicians. Topics include steering systems.	<ul style="list-style-type: none"> • Tires • Steer Axles • Steering Gears 	3H 45M
Module 10G - Chassis Systems: Air Systems	This covers the seventh part of the chassis systems learning plan intended for service technicians. Topics include a general overview of air systems.	<ul style="list-style-type: none"> • Governors • Driers • Compressors • Valves 	2H 44M

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The Vehicle Wheel and Tire

(Approx. 1 Hr 21 Mins)

Module	Description	Skills	Timing
Module 11 - Wheel and Tire Basics	This covers an overview of wheel and tire basics. Topics include tire construction and operation.	<ul style="list-style-type: none">• Tire Construction• Abnormal Wear	1H 21M

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The Electrical Systems

(Approx. 14 Hr 36 Mins)

Module	Description	Skills	Timing
Module 12A - Basic Electrical Systems	This covers a general overview of basic electrical systems components intended for service technicians.	<ul style="list-style-type: none"> • Electrical Fundamentals • Batteries • Circuits 	9H 42M
Module 12B - Powertrain Systems: Fuel Injection and Engine Performance	This covers the third part of basic powertrain systems intended for service technicians. Topics include fuel injection and engine performance.	<ul style="list-style-type: none"> • Fuel Systems • Filters • Sensors 	4H 54M

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The Vehicle Powertrain Systems

(Approx. 33 Hr 20 Mins)

Module	Description	Skills	Timing
Module 13A - Powertrain Systems: Engine Mechanical	This covers the first part of basic powertrain systems intended for service technicians. Topics include an overview of engine mechanical components.	<ul style="list-style-type: none"> Engines Cooling System Lubrication 	4H 22M
Module 13B - Powertrain Systems: Exhaust, Turbos, and Aftertreatment	This covers the second part of basic powertrain systems intended for service technicians. Topics include exhaust, turbos, and aftertreatment.	<ul style="list-style-type: none"> Turbos Aftertreatment 	5H 29M
Module 13C - Powertrain Systems: Manual Transmissions and Clutches	This is the fourth part of basic powertrain systems intended for service technicians. Topics include manual transmissions and clutches.	<ul style="list-style-type: none"> Manual Transmission Clutches 	6H 2M
Module 13D - Powertrain Systems: Automatic Transmissions and AMT	This covers the fifth part of basic powertrain systems intended for service technicians. Topics include automatic transmissions and AMT.	<ul style="list-style-type: none"> AMT Automatic Transmission 	27M

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Module	Description	Skills	Timing
Module 13E - Powertrain Systems: Driveline Systems	This covers the sixth part of basic powertrain systems intended for service technicians. Topics include driveline systems.	<ul style="list-style-type: none"> • Drive Shafts • U-Joints • Operation 	4H 5M
Module 13F - Powertrain Systems: Axles	This covers the seventh part of basic powertrain systems intended for service technicians. Topics include axles.	<ul style="list-style-type: none"> • Steer Axle • Differentials 	12H 55M

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The Electric Vehicle

(Approx. 2 Hr 27 Mins)

Module	Description	Skills	Timing
Module 14A - Safety Systems: ABS, ESC and ADAS	This covers a general overview of electronic control systems in electric vehicles intended for service technicians. Topics include ABS, ESC and ADAS.	<ul style="list-style-type: none"> • ABS • ESC • ADAS 	52M
Module 14B - Intro to Electric Vehicles	This covers the second part of basic powertrain systems intended for service technicians. Topics include exhaust, turbos, and aftertreatment.	<ul style="list-style-type: none"> • EV Intro 	1H 35M

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The Vehicle Other Systems

(Approx. 9 Hr 5 Mins)

Module	Description	Skills	Timing
Module 15A - Trailer and Body Systems	This covers a general overview of trailer and body systems for service technicians.	<ul style="list-style-type: none"> Types of Trailer Breakdown 	43M
Module 15B - HVAC Systems	This is the basics of HVAC for service technicians.	<ul style="list-style-type: none"> Air Conditioning Compressors Expansion Vales 	3H 34M
Module 15C - Welding and Hydraulics	This covers the basics of welding and hydraulics for service technicians.	<ul style="list-style-type: none"> MIG Welding TIG Welding Lift gate Hydraulic Systems 	4H 48M

Total Time: 116 Hrs. 12 Mins.

Total Courses: 261

Total Modules: 30