

PARTS SPECIALIST CURRICULUM

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 Parts Specialist Curriculum provides a structured learning path for professionals who serve at the front line of the heavy-duty parts business. Each module builds essential knowledge of products, systems, and industry practices to support growth and performance. From foundational business practices to advanced vehicle systems, this program builds confidence, capability, and long-term career growth.

Benefits For Fleets:

- Reduces downtime through better diagnostic accuracy
- Improves safety and compliance with foundational shop training
- Builds internal talent pipelines to reduce turnover
- Enhances shop culture with standardized learning
- Supports recruitment with measurable learning credentials



Orientation

Module	Description
Module 01 - Welcome to HD	Introduction to the fundamentals of the commercial vehicle industry. Topics include the history of the industry, types of commercial and heavy duty vehicles, and essential workplace skills including teamwork, time management, and safety.

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The Basics

Module	Description
Module 02 - Basic Parts Business Introduction	Introduction to the fundamentals of business, distribution, and supply chain management. Learners will also build essential retail math skills.
Module 03 - Basic Vehicle System Overview	Introduction to commercial vehicles and their core systems. Topics include diesel engine operation, air brakes, air conditioning, lighting, and starting and charging systems.
Module 04 - Part Identification	Covers the fundamental skills and knowledge needed to accurately identify and measure parts in the heavy-duty industry. Learners will explore essential terminology, fastener and fitting identification, and the proper use of measurement tools such as dial calipers and micrometers

The Product - Chassis Systems

Module	Description
Module 5A - Brakes and Wheel End	Covers a comprehensive introduction to commercial vehicle brake and wheel end systems. Learners will explore the fundamentals of air brake operation, brake components, and system identification.
Module 5B - Air Systems	Covers the fundamentals of commercial vehicle air systems and their key components. Learners will explore how air systems support braking and other vehicle functions.
Module 5C - Steering Systems	Covers an introduction to the key components and operation of commercial vehicle steering systems. Learners will explore the functions of major steering parts.
Module 5D - Suspension Systems	Covers the fundamentals of heavy-duty suspension systems. Learners will explore common suspension types and learn how to identify and measure key components such as U-bolts, air springs, and leaf springs.

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The Product - Powertrain Systems

Module	Description
Module 6A - Engine Systems	Covers the core principles of diesel engine operation and related powertrain components. Learners will explore how diesel engines work, including turbochargers, Jake brakes, cooling systems, and fan clutches.
Module 6B - Transmission Systems	Covers an introduction to the operation and components of heavy-duty transmission systems. Learners will explore manual transmission function, clutch operation, and key component identification.
Module 6C - Axels	Covers the fundamentals of axle systems in commercial vehicles. Learners will explore how differentials and interaxle systems operate, gain insight into rear drive axle components, and review best practices.
Module 6D - Driveline Systems	Covers an overview of driveline system operation and component identification in commercial vehicles. Learners will explore how drivelines transfer power through yokes and U-joints.

The Product - Electrical

Module	Description
Module 7 - Basic Electrical Systems	Covers the core principles of vehicle electrical systems, covering electricity fundamentals, batteries, starters, alternators, and key components like relays and fuses.

The Product - Other Systems

Module	Description
Module 8 - Trailer and Body Systems	Covers an overview of trailer types, components, and securement systems used in the heavy-duty industry. Learners will explore common and specialty trailer designs.
Module 9 - HVAC Systems	Covers the fundamentals of heating, ventilation, and air conditioning (HVAC) systems in heavy-duty applications.
Module 10 - Vehicle Control Systems	Covers the fundamentals of ABS, electronic stability control, and stability programs, along with an introduction to advanced driver assistance systems (ADAS) and their role in improving vehicle performance and safety.
Module 11 - Extra Systems	Covers key auxiliary systems that support vehicle performance and functionality. Learners will gain foundational knowledge of hydraulics, including fittings, hoses, cylinders, filters, and power take-off systems.

Total Time: 57 Hrs.

Total Courses: 169

Skilled technicians don't just fix trucks — they protect uptime.