



**Sherwood Freightliner, Sterling,
Western Star & Isuzu, Inc.**

www.SherwoodTrucks.com

Training Center

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2024 TRAINING CLASS SCHEDULE

Cascadia (All Models) (CVL05) – (4 days) \$1250.00/Student

COURSE CVL05-212

Students will learn power distribution, ECU communication, and troubleshooting issues specific to Cascadia vehicles.

Dates class is offered: 1/9/24 – 1/12/24

DETROIT® Heavy Duty - Basic Diagnostics (ILT) (CEP42) – (4 days) \$1100.00/Student

COURSE CEP42-1063

In this course the student will be introduced to all the core competencies required DD engine diagnostics. Key sections include how to gather important service information stored on the DTNA such as technical literature, relating concepts of basic electricity to the DD engine sensor system, detailed usage of the DiagnosticLink electronic service tool, how to program engine controller using DiagnosticLink professional and an overview of using DDEC Reports.

Dates class is offered: 1/16/24 – 1/19/24

DTNA Information Resources (in-person) (CVG02) – (1 day) \$275.00/Student

COURSE CVG02-429

- Identify available types of Technical Literature and Applications
- Locate specific information using DTNAConnect Resources and Applications
- Determine which technical source/application to use based on the type of information needed

Date class is offered: 1/22/24

Heavy Duty Truck Systems (ILT) (CVG01) – (4 days) \$1100.00/Student

COURSE CVG01-2306

The Heavy Duty Truck Systems course is the foundation of the Service Training Academy vehicle training curriculum. In this course, students will learn to access and use the DTNA and vendor service literature which underpins all troubleshooting and repair efforts. Additionally, students will learn the operation, troubleshooting, and repair of many main mechanical systems on heavy duty vehicles. Systems covered are: main and cab air suspension systems and adjustment, clutch and linkage operation and adjustment, power steering systems, and air brake/ABS systems.

Dates class is offered: 1/23/24 – 1/26/24

DT12 Diagnostics and Repair (ILT) (CVG18) – (3 days) \$825.00/Student COURSE CVG18-365

The course focus on the use of log files diagnostics and symptom based troubleshooting to diagnose DT12 issues correctly the 1st time and eliminate the need to call the CSC for support. After properly diagnosing issues technicians will complete repairs following service documentation using all DTNA special tools necessary for the repairs. Technicians will be guided though all DT12 learning and programming routines; and get guidance on basic parameter management for the DT12.

Dates class is offered: 1/30/24 – 2/1/24

DETROIT® Heavy Duty – Major Repair (ILT) (CEP43) – (4 days) \$1100.00/Student

COURSE CEP43-1039

This course covers major repair with emphasis on the systems of the engine (air, coolant, lube, fuel). As the students disassemble and reassemble the engine and how to properly use published literature for tasks including how to set the gear train and gear lash, set valve lash and engine brake lash. The course covers component differences between releases of DD engines and basic failure analysis of key components.

Dates class is offered: 2/6/24 – 2/9/24

Vibration Analysis (ILT) (CVD13) – (2 days) \$550.00/Student

COURSE CVD13-447

This two day instructor-led course is intended to provide the technician with the knowledge and skills necessary to diagnose and troubleshoot vehicle vibration-related concerns. The course introduces the basics of vibration theory, and the use of vibration software and other vibration-related tools to properly diagnose and correct the root cause.

Dates class is offered: 2/14/24 – 2/15/24

Electrical Troubleshooting (ILT) (CVE12) – (4 days) \$1100.00/Student COURSE CVE12-1855

Technicians will review electrical fundamentals as they apply to DC circuits. They will build series, parallel and series parallel circuits as well as multiple circuits with relays and multiple controls for the purpose of understanding electrical circuit operation and problem conditions. They will learn when and how and why to use the various modes of a Digital Multimeter to isolate problems circuits.

Dates class is offered: 2/20/24 – 2/23/24

DETROIT® Heavy Duty - Basic Diagnostics (ILT) (CEP42) – (4 days) \$1100.00/Student

COURSE CEP42-1064

In this course the student will be introduced to all the core competencies required DD engine diagnostics. Key sections include how to gather important service information stored the on DTNA such as technical literature, relating concepts of basic electricity to the DD engine sensor system, detailed usage of the DiagnosticLink electronic service tool, how to program engine controller using DiagnosticLink professional and an overview of using DDEC Reports.

Dates class is offered: 2/27/24 – 3/1/24

DTNA Information Resources (in-person) (CVG02) – (1 day) \$275.00/Student

COURSE CVG02-430

- Identify available types of Technical Literature and Applications
- Locate specific information using DTNAConnect Resources and Applications
- Determine which technical source/application to use based on the type of information needed

Date class is offered: 3/4/24

Heavy Duty Truck Systems (ILT) (CVG01) – (4 days) \$1100.00/Student COURSE CVG01-2307

The Heavy Duty Truck Systems course is the foundation of the Service Training Academy vehicle training curriculum. In this course, students will learn to access and use the DTNA and vendor service literature which underpins all troubleshooting and repair efforts. Additionally, students will learn the operation, troubleshooting, and repair of many main mechanical systems on heavy duty vehicles. Systems covered are: main and cab air suspension systems and adjustment, clutch and linkage operation and adjustment, power steering systems, and air brake/ABS systems.

Dates class is offered: 3/5/24 – 3/8/24

DETROIT® Heavy Duty – Major Repair (ILT) (CEP43) – (4 days) \$1100.00/Student

COURSE CEP43-1040

This course covers major repair with emphasis on the systems of the engine (air, coolant, lube, fuel). As the students disassemble and reassemble the engine and how to properly use published literature for tasks including how to set the gear train and gear lash, set valve lash and engine brake lash. The course covers component differences between releases of DD engines and basic failure analysis of key components.

Dates class is offered: 3/12/24 – 3/15/24

Electronic Systems (ILT) (CVE07) – (4 days) \$1100.00/Student

COURSE CVE07-53

Please note this course is the newest version of Electronic Systems which was originally published in May 2023, identified by the course code CVE07. The older version of Electronic Systems (CVE05 and the exam CVE05E) was released in 2016 and is being phased out. These course versions, CVE05E and CVE07, are equivalent to each other, technicians who already took CVE05 and passed CVE05E do not need to take CVE07. Technicians will learn how state of the art electronic control systems on today's medium and heavy duty trucks work in general to include how ECU's monitor a variety of sensors determine appropriate action and control outputs. They will learn specifically how sensors work and how to confirm proper operation (speed sensors, temp sensors, position sensors, pressure sensors, Hall effect sensors).

Dates class is offered: 3/19/24 – 3/22/24

DETROIT® Medium Duty - Diagnostic / Major Repair (ILT) (CEP70) – (4 days)

\$1100.00/Student COURSE CEP70-731

This Medium Duty - Diagnostic / Major Repair course takes a closer look at the internal engine components and how the components interact with one another and how to diagnose faults and failures of the medium duty platform. This class is a performance graded class; no longer using one end of the week class assessment. What this means for a technician is your trainer now provides an in class grade based upon how you perform during the class. This performance grade, along with multiple assessments during the class, provides you with a pass or fail grade for a class.

Dates class is offered: 3/26/24 – 3/29/24

DETROIT® Heavy Duty – Major Repair (ILT) (CEP43) – (4 days) \$1100.00/Student

COURSE CEP43-1041

This course covers major repair with emphasis on the systems of the engine (air, coolant, lube, fuel). As the students disassemble and reassemble the engine and how to properly use published literature for tasks including how to set the gear train and gear lash, set valve lash and engine brake lash. The course covers component differences between releases of DD engines and basic failure analysis of key components.

Dates class is offered: 4/2/24 – 4/5/24

Electrical Troubleshooting (ILT) (CVE12) – (4 days) \$1100.00/Student COURSE CVE12-1856

Technicians will review electrical fundamentals as they apply to DC circuits. They will build series, parallel and series parallel circuits as well as multiple circuits with relays and multiple controls for the purpose of understanding electrical circuit operation and problem conditions. They will learn when and how and why to use the various modes of a Digital Multimeter to isolate problems circuits.

Dates class is offered: 4/9/24 – 4/12/24

DETROIT® Heavy Duty – Fuel System Diagnostics (ILT) (CEF02) – (4 days) \$1100.00/Student

COURSE CEF02-109

This course provides an in depth look at how all the components of the fuel system from the fuel tank to the injector work together on a properly running engine. Based on that knowledge students learn how to use the latest electronic service routines and troubleshooting material to diagnose fault code or symptom based issues with the fuel system.

Dates class is offered: 4/16/24 – 4/19/24

Common Electrical and Electronics Architecture (ILT) (CVE06) – (3 days) \$825.00/Student

COURSE CVE06-490

This professional level course will provide the technician with an in depth understanding of Common Electrical and Electronic Systems on DTNA vehicles that utilize it.

Dates class is offered: 4/23/24 – 4/25/24

Western Star (ILT) (CVL06) – (4 days) \$1100.00/Student**COURSE CVL06-205**

This expert level course will provide the technician with an in depth understanding of the Western Star brand service information, mechanical systems, electrical systems, and electronic systems. This course includes the Western Star 49X, and builds on knowledge of Common Electrical and Electronics Architecture (CEEA) Professional Level training which can be obtained through CVE06 - CEEA or its equivalent CVL04 - New Cascadia. This course is not meant for technicians who have previously completed CVL01 - Western Star Expert Instructor Led Training. Completion of this course is equivalent to the 49X Only Update Class (CVL01W). Please ensure you have access to the CHEC Tool in DTNAConnect prior to the ILT as you will need to use this application to complete the exam.

Dates class is offered: 4/30/24 – 5/3/24**DETROIT® Heavy Duty – Fuel System Diagnostics (ILT) (CEF02) – (4 days) \$1100.00/Student****COURSE CEF02-110**

This course provides an in depth look at how all the components of the fuel system from the fuel tank to the injector work together on a properly running engine. Based on that knowledge students learn how to use the latest electronic service routines and troubleshooting material to diagnose fault code or symptom based issues with the fuel system.

Dates class is offered: 5/7/24 – 5/10/24**Electronic Systems (ILT) (CVE07) – (4 days) \$1100.00/Student****COURSE CVE07-54**

Please note this course is the newest version of Electronic Systems which was originally published in May 2023, identified by the course code CVE07. The older version of Electronic Systems (CVE05 and the exam CVE05E) was released in 2016 and is being phased out. These course versions, CVE05E and CVE07, are equivalent to each other, technicians who already took CVE05 and passed CVE05E do not need to take CVE07. Technicians will learn how state of the art electronic control systems on today's medium and heavy duty trucks work in general to include how ECU's monitor a variety of sensors determine appropriate action and control outputs. They will learn specifically how sensors work and how to confirm proper operation (speed sensors, temp sensors, position sensors, pressure sensors, Hall effect sensors).

Dates class is offered: 5/14/24 – 5/17/24**DETROIT® Heavy Duty – Air & ATS Diagnostics (ILT) (CEA01) – (3 days) \$825.00/Student****COURSE CEA01-91**

This course focuses on the components, operation and diagnostics of the DETROIT engine's air and aftertreatment system. Students learn the proper operation and diagnostics of air system components (both electronic faults and symptom-based issues). The ATS system includes a detailed study of the DOC and DPF filters, their related sensors and the all aspects of the regeneration process with a focus on GHG14/17 and Gen 5 GATS 2.0 systems. Students study ATS diagnostic procedures both fault code and symptom based issues with a combination of log file analysis and hands-on exercises.

Dates class is offered: 5/21/24 – 5/23/24**HVAC Diagnostics (ILT) (CVH02) – (4 days) \$1100.00/Student****COURSE CVH02-1427**

This course includes the new CVH05 content (Parked HVAC). Technicians will learn the components, operation, control and diagnostics of the heating system. They will learn fundamental laws of heat energy and heat transfer as related to A/C systems, they will use this knowledge to better understand refrigerant system operation, performance testing and gauge driven diagnostics as well as related service procedures recovery, evacuation and charging. This course is not a supplement nor does it meet the EPA Section 609 regulations from the Clean Air Act Amendments of 1990. Please visit the EPA site (www.epa.gov) for more information on this certification program.

Dates class is offered: 5/28/24 – 5/31/24