



GORDON TRUCK CENTERS DEALER FAMILY

Training Center

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Ridgefield, WA 98642

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***DD Heavy Duty - Major Repair (5 DAYS) \$1,050/Student**

COURSE CODE CEP43

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 they will learn how to properly use Power Service Literature for tasks including how to set the gear train and gear lash, set valve lash and engine brake lash. The course will cover component differences the student will see between the different releases of DD engines (EPA07, EPA1, GHG14 and GHG17) and basic failure analysis of key components.

Prerequisites: GHG17 ATS Components Transition OEP30E, GHG17 DD Engine Components OEP27E, GHG17 Diagnostics Update OEP45E

***DD Heavy Duty – Basic Diagnostics (3 Days) \$650/Student**

COURSE CODE CEP42

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 network comparable to Power Service 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.

Prerequisites: GHG17 ATS Components Transition OEP30E, GHG17 DD Engine Components OEP27E, GHG17 Diagnostics Update OEP45E

***DD Heavy Duty – Air & ATS Diagnostics (4 Days) \$850/Student**

COURSE CODE CEP45

This course is focused on the components, operation and diagnostics of the DD engine's air and aftertreatment system. On the air system side the course will look at the evolution of the turbocharger and EGR system components over the different DD engine releases. Students will learn the proper operation and diagnostics of air system components (both electronic faults and symptom based issues). The ATS system will include a detailed study of the DOC and DPF filters, their related sensors and the all aspects of the regeneration process. The SCR system will be covered by examining the major components of both the air-assisted system (EPA10) and the liquid only system (GHG14 and GHG17). Students will study ATS diagnostic procedures both fault code and symptom based issues with a combination of log file analysis and hands-on exercises.

Prerequisites: GHG17 ATS Components Transition OEP30E, GHG17 DD Engine Components OEP27E, GHG17 Diagnostics Update OEP45E, DD Heavy Duty (Exam) and DD Heavy Duty Basic Diagnostics (Exam)

***DD Heavy Duty – Fuel System Diagnostics (5 Days) \$1,050/Student** COURSE CODE CEP45

This course will provide 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 will then learn how to use the latest electronic service routines and troubleshooting material to diagnose fault code or symptom based issues with the fuel system. The course will cover the evolution of the DD engine fuel system from its initial EPA07 release through the latest GHG17 release.

Prerequisites: GHG17 ATS Components Transition OEP30E, GHG17 DD Engine Components OEP27E, GHG17 Diagnostics Update OEP45E, DD Heavy Duty (Exam) and DD Heavy Duty Basic Diagnostics (Exam)

***GHG Update (3 Days) \$650/Student** COURSE CODE CEU14

This 3 day course is designed give students a working knowledge of changes made to the components, systems and diagnostics of the DD engines released to comply with GHG14 regulations. The material features: Engine and vehicle component changes System changes and operation Air system Fuel system Coolant system Lubrication system Airless Aftertreatment operation Electronic tools and diagnostics changes.

Perquisites: GHG14 Aftertreatment Systems Exam (WBT), DDDL Diagnostics for GHG14 Exam (WBT), GHG14 DD Engine Component Changes (Exam) WBT and DD15 Engine Diagnostics ILT Exam

***Series 60 Major Repair V 2.0 (4 Days) \$850/Student** COURSE CODE CES08

All overhaul classes are designed to enable service personnel to troubleshoot, disassemble and reassemble engines correctly, repair and overhaul engine components and perform preventative maintenance and tune-ups. This program includes both classroom lectures and practical hands-on exercises. This 4 day course includes both Series 60 Gear Trans. Students disassemble live engines and an in-depth study is made of the following: General construction and operating principles; fuel, air, lube and cooling systems; governors and other fuel control devices; overhaul procedures; tune-up and troubleshooting. After all components are reassembled, the engine is tuned and checked for satisfactory completion. Please advise personnel to bring appropriate clothing (i.e.; coveralls, work shoes, etc).

***MBE 900 or 4000 Major Repair V 2.0 (3 Days) \$650/Student** COURSE CODE CEN03/CEF01

All overhaul classes are designed to enable service personnel to troubleshoot, disassemble and reassemble engines correctly, repair and overhaul engine components and perform preventative maintenance and tune-ups. This program includes both classroom lectures and practical hands-on exercises. Students disassemble live engines and an in-depth study is made of the following: General construction and operating principles; fuel, air, lube and cooling systems; governors and other fuel control devices; overhaul procedures; tune-up and troubleshooting. After all components are reassembled, the engine is tuned and checked for satisfactory completion. Please advise personnel to bring appropriate clothing (i.e.; coveralls, work shoes, etc).

*Classes are available to Dealer and Distributors and must complete all prerequisites prior to enrollment. Classes are also available to Customer; please call Connie Greenfield (360) 887-7513 or email cgreenfield@pac-truck.com for more information.



GORDON TRUCK CENTERS DEALER FAMILY

Customer Based On-Highway Engine Courses

DDEC III/IV/V/VI Diagnostics (3 Days) \$885/Student

COURSE CODE PTC-DDEC

1st day primarily focuses on the DDEC III/IV. Lectures are on components; fault code descriptions and software usage.

2nd day includes operation and service of the DDEC V Series 60 Systems. Lectures are on components changes; electrical components; fault code descriptions; EGR additions; software strategy changes and software utilization diagnosis.

3rd day discussion on DDEC VI; includes the EPA07 overview; component and software changes and Diagnostics.

Pre-Requisites: Basic knowledge of the series 60 engine.

DDEC V/VI Diagnostics (3 days) \$885/Student

COURSE CODE PTC-DDECV/VI

This includes operation and service of the DDEC V Series 60 Systems and DDEC VI Product. Lectures are on ATD components (After Treatment Device); electrical components; fault code descriptions; EGR diagnostics; and utilizing diagnostic software to diagnose electrical and mechanical failures. This comprehensive course is primarily aimed at on-highway applications. **Pre-Requisites:** Basic knowledge of the series 60 engine, MBE 900 and 4000 engines.

DD15 Engine Component Familiarization (2 Days) \$590/Student

COURSE CODE PTC-DD15

This 2 day course is designed to give students a working knowledge of the internal/external components and its function. This includes 1-day of in-classroom study and 1-day of hands-on training. Targeted Audience: Warranty, service and parts personnel.

DD13/15/16 Familiarization (3 Days) \$885/Student

COURSE CODE PTC-DD13/15/16

This 3 day DD13/15 Familiarization course is designed to enable service personnel to understand the basic tune-up and preventative maintenance procedures. This includes a mechanical overview of new components; after treatment devices (ATD) and electrical components.

Pre-Requisites: Basic knowledge of the series DD15 engines.

DDEC VI / X / XIII Overview (3 Days) \$885/Student

COURSE CODE PTC-DDECVI/X

This includes a mechanical overview of new components; fault code descriptions; EGR and SCR diagnostics; and utilizing diagnostic software to diagnose electrical and mechanical failures. This comprehensive course is primarily aimed at on-highway applications.

Pre-Requisites: Basic knowledge of the series DD15 engines.



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Customer Based On-Highway Engine Courses

MBEC Diagnostics (2 Days) \$590/Student

COURSE CODE PTC-MBEC

This includes operation and service of the Detroit Diesel & Mercedes Benz Electronic Control systems. Lectures are on electrical components; fault code descriptions; EGR diagnostics; and utilizing diagnostic software to diagnose electrical and mechanical failures.

Pre-Requisites: Basic knowledge of the MBE 900 and 4000 engines.

EPA 07/2010 Diagnostics (3 Days) \$885/Student

COURSE CODE PTC-EPA07/10

This course covers all Series 60 and DD Products. Includes components and systems review, advance use of DDDL and DDEC VI, hand on diagnostics exercises, after treatment system review and troubleshooting exercises.

GHG14 DD Diagnostics (3 Days) \$885/Student

COURSE CODE PTC-GHG14

This 3 day course is designed give students a working knowledge of changes made to the components, systems and diagnostics of the DD engines released to comply with GHG14 regulations. The material features: Engine and vehicle component changes System changes and operation Air system Fuel system Coolant system Lubrication system Airless Aftertreatment operation Electronic tools and diagnostics changes.

2 Cycle OH Mechanical (5 Days) \$1,475/Student

COURSE CODE PTC-2CYCLE

Overhaul classes are designed to enable service personnel to troubleshoot and diagnose engine problems, disassemble and reassemble engines correctly, repair and overhaul engine components, governor theory, tune-up adjustments, and troubleshooting procedures will be covered. This program includes both classroom lectures and practical hands on exercises. Students disassemble live engines and an in-depth study is made of the following: General constructions and operating principles; fuel, air, lube and cooling systems. After all components are reassembled, the engine is tuned and checked for satisfactory completion.

Custom classes - Are available upon request and are designed to fit your specific needs. In the past we have provided custom classes for the US Military, Municipalities, Transit Authorities, and Corporations such as Mobil Oil, Penske, etc. across the Pacific and North America and look forward to exceeding your expectations.

