Class Descriptions

Detroit Diesel

Customer Based On-Highway Engine Courses

DDEC III/IV (2 Days) $450.00 **COURSE CODE PPP-DDECIII/IV - 2010**
This program includes operation and services of DDEC III/IV Systems. Classroom lectures are on electrical components, wiring, basic electricity, and the various functions that the system is capable of, Detroit Diesel Diagnostic Link software and some hands on troubleshooting. This comprehensive course is primarily aimed at on-highway applications.

DDEC V Diagnostics (2 Days) $450.00 **COURSE CODE PPP-DDECV/2010**
This includes operation and service of the DDEC V Series 60 Systems. Lectures are on 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.

DDEC VI Diagnostics (2 Days) $450.00 **COURSE CODE PPP-DDECVI/2010**
This includes operation and service of the DDEC VI Systems. Lectures are on ATD components (After Treatment Devise); 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.

Series 60 Preventative Maintenance (2 Days) $450.00 **COURSE CODE PPP-S60PM/2010**
This two day course will be designed to aid technicians in the proper service and tune-up procedures for the Series 60 Engine. The latest service information will be discussed. Tune-up procedures will be performed on live engines. Classroom lectures are on electrical components, wiring, and the various functions that the system is capable of.
Pre-Requisites: Basic knowledge of the series 60 engine.

Combined MBE 900/4000 Preventative Maintenance (2 Days) $450.00 **COURSE CODE PPP-MBEPM/2010**
This two day course will be designed to aid technicians in the proper service and tune-up procedures for the MBE 900/4000 Series Engines. The latest service information will be discussed. Tune-up procedures will be performed on live engines. Classroom lectures are on electrical components, wiring, and the various functions that the system is capable of.
Pre-Requisites: Basic knowledge of the MBE 900 and 4000 Series Engines.

MBEC **COURSE CODE PPP-MBEC/2010**
This includes operation and service of the 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. This comprehensive course is primarily aimed at on-highway applications.
Pre-Requisites: Basic knowledge of the MBE 900 and 4000 engines.

DTNA On-Highway Engine Courses

***Computer Competency Skills Required for Attendance, http://www.ddcg2.com**

2007 All Product Update: Series 60, MBE 900, and MBE 4000* *(4 DAYS) $850 (8925)*

COURSE CODE CEU01

Objective

the objective of this course is to provide On-Highway technicians with information regarding the changes in the operation, control, maintenance and repair on the 07 engines.

Description

2007 Product Update: Covers all three products. Includes components and systems review, advance use of DDDL and DDEC VI, hand on diagnostics exercises, after treatment system review and troubleshooting exercises.

Prerequisites

Fully 2004 Certified in one of the Series 60, MBE 900, MBE 4000, Plus Web-Based Courses 8928 Basic Diagnostics, 8929 ATS Introduction, 8930 Update MBE 4000, 8931 Update MBE 900 & 8932 Update Series 60.

SERIES 60 MAJOR REPAIR V 2.0* (3 DAYS) $650 (8960)

COURSE CODE CES08

All overhaul classes are designed to enable service personnel to troubleshoot and diagnose engine problems, 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).

Prerequisite: Must complete all of the following WBT prior to attending this course; S60 Product Intro Fuel, Cooling, Air-Intake, Lube, & Tune-up, DDEC IV-V, DDEC Reports, and Basic Diagnostics.

MBE 900 MAJOR REPAIR V 2.0* (3 DAYS) $650 (8970)

COURSE CODE CEN03

All overhaul classes are designed to enable service personnel to troubleshoot and diagnose engine problems, 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).

Prerequisite: Must complete all of the following WBT prior to attending this course; MBE 900 Product Intro Fuel, Cooling, Air-Intake, Lube, and Tune-up, MBE 900 Maintenance, MBE Electronics, DDEC Reports, and Basic Diagnostics. *Technicians that have taken the following combinations do not have to take Repair V2; Pre EGR (8859) + '04 Update (8889), '04 Major Repair (8886).*

MBE 4000 MAJOR REPAIR V 2.0* (3 DAYS) $650 (8980)

COURSE CODE CEF01

All overhaul classes are designed to enable service personnel to troubleshoot and diagnose engine problems, 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).

Prerequisite: Must complete all of the following WBT prior to attending this course; MBE 4000 Product Intro Fuel, Cooling, Air-Intake, Lube, and Tune-up, MBE 4000 Maintenance, MBE Electronics, DDEC Reports, and Basic Diagnostics. *Technicians that have taken the following combinations do not have to take Repair V2; Pre EGR (8858) + '04 Update (8884), '04 Major Repair (8885).*

DTNA On-Highway Engine Courses, Cont.

***Computer Competency Skills Required for Attendance, http://www.ddcg2.com**

DD15 ENGINE MAJOR REPAIR* (5 DAYS) $1000 (8950) **COURSE CODE CEP01**

All overhaul classes are designed to enable service personnel to troubleshoot and diagnose engine problems, 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).

Prerequisite: Must complete all of the following WBT prior to attending this course; Product Intro Fuel, Cooling, Air, Lubrication, and Tune-up, DDEC VI, DDEC Reports, 2007 Aftertreatment, 2007 Basic Diagnostics, and DD15 Maintenance, and MBE Electronics. ITL courses 2007 Update, DDEC, Series 60, MBE 900, MBE 4000 Major Repairs.

DD15 ENGINE DIAGNOSTICS* (5 DAYS) $1000 **COURSE CODE CEP02**

This 5 day course is designed to give students a review of the DD15 engine sub systems along with real world failure modes and analysis. The material covered in this class includes the following: Exhaust Gas Recirculation (EGR) System, Fuel System, Aftertreatment System, Electronics, and Mechanical Troubleshooting. Please advise personnel to bring appropriate clothing (i.e.; coveralls, work shoes, etc).

Prerequisite: Must complete all of the following WBT prior to attending this course; Product Intro Fuel, Cooling, Air, Lubrication, and Tune-up, DDEC VI, DDEC Reports, 2007 Aftertreatment, 2007 Basic Diagnostics, and DD15 Maintenance, and MBE Electronics. ITL courses 2007 Update, 04 Diagnostics, Series 60, MBE 900, MBE 4000, DD15 Major Repair's, and complete the DD15 Diagnostics Workbook.

EPA04 ENGINE DIAGNOSTIC COURSE* (5 DAY) $1,000 (8857,8880) **COURSE CODE CED01**

This 5 day course is designed to give students a practical, comprehensive look at all phases of the troubleshooting process for the EPA '04 (Series 60) and MBE (900 and 4000) engines. The course material includes: How to effectively gather and assess preliminary information prior to beginning the diagnostic process. Understanding basic electrical concepts, tools, and wiring diagram. Hands-on troubleshooting of faults codes using the latest electronic tools. Practical problem solving using snapshot data, methods to examine fuel economy issues, and for issues caused by incorrect parameter settings. Understanding cylinder diagnostics by using electronic tools. Students will develop an effective methodology for troubleshooting problems by examining real life cases in an interactive dialog format.

Prerequisite: Must complete all of the following WBT prior to attending this course; OES06-DDEC IV/V Electronics, OEE06 MBE Electronics, OER01 DDEC Reports, and OEE06-Diagnostic 6.3 and one Major Repair (one of the following: CEN03-MBE 900, CEF01-MBE 4000, OR CES08-SERIES 60*). Please note that this course is a necessary component of the 2004 technician's certification requirements. If the technician has already completed the DDC8857-MBE Electronics or DDC8880-DDEC Electronics ILT course; they* ***do not*** *need to take the CED01-EPA'04 Engine Diagnostics course.*

EPA 2010 Update (4 ½ Days – 36 Hours) **COURSE CODE CEU02**

The Course prereqs are listed in the Service Training Academy.