

Atlantic Detroit Diesel-Allison

Engine Service Technology
(973) 575-0309



ADDA ENGINE COURSE DESCRIPTIONS

Web-Based courses for on-highway are located on the [G2 Website](#) for distributors and dealers. All other interested attendees should have a solid foundation in diesel engine operating principles and basic hand tool skills.

On-Highway Instructor Led Courses

2007 All Product Update: Series 60, MBE 900, and MBE 4000 (4 DAYS) \$800
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 of 07 engines.

Description

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

Prerequisites

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

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DD15 ENGINE MAJOR REPAIR (5 DAYS) \$1,000 **COURSE CODE CEP01**

Objective and Description

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 of the 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 wear appropriate work clothing (i.e.: coveralls, uniforms, work shoes, etc).

Prerequisites

Must complete all of the following WBT courses 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. ILT courses: 2007 Update, DDEC, Series 60, MBE 900, MBE 4000 Major Repairs.

DD15 ENGINE DIAGNOSTICS (5 DAYS) \$1,000 **COURSE CODE CEP02**

Objective and Description

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, uniforms, work shoes, etc).

Prerequisites

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. ILT courses: 2007 Update, 04 Diagnostics, Series 60, MBE 900, MBE 4000, DD15 Major Repair's, and complete the DD15 Diagnostics Workbook.

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

Objective and Description

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 diagrams. Hands-on troubleshooting of faults 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 using electronic tools. Developing an effective methodology for troubleshooting problems by examining real life cases in an interactive dialog format.

Prerequisites

Must complete all of the following WBT prior to attending this course; OES06-DDEC IV/V Electronics, OEE06 MBE Electronics, OER01 DDEC Reports, and OED06-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 and DDC8880-DDEC Electronics ILT course prior to August 2007; they **do not** need to take the CED01-EPA'04 Engine Diagnostics course.*

SERIES 60 MAJOR REPAIR V 2.0 (4 DAYS) \$800 **COURSE CODE CES08**

Objective and Description

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 of the 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 wear appropriate work clothing (i.e.: coveralls, uniforms, work shoes, etc).

Prerequisites

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. *Technicians that have taken the following combinations do not have to take Major Repair V2; Pre EGR (1439) + '04 Update (8879) or '04 Major Repair (8893).*

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MBE 900 MAJOR REPAIR V 2.0 (4 DAYS) \$800
COURSE CODE CEN03

Objective and Description

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 of the 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 wear appropriate work clothing (i.e.: coveralls, uniforms, work shoes, etc).

Prerequisites

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 Major Repair V2; Pre EGR (8859) + '04 Update (8889), '04 Major Repair (8886).*

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MBE 4000 MAJOR REPAIR V 2.0 (4 DAYS) \$800
COURSE CODE CEF01

Objective and Description

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 of the 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 wear appropriate work clothing (i.e.: coveralls, uniforms, work shoes, etc).

Prerequisites

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 Major Repair V2; Pre EGR (8858) + '04 Update (8884), '04 Major Repair (8885).*

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Off-Highway Instructor Led Courses

SERIES 60 MARINE – CUSTOMER/MECHANIC (4 DAYS) \$800 **COURSE CODE CM1**

Objective and Description

This 4 day course is designed to enable service personnel to troubleshoot and diagnose engine problems, perform disassembly and reassembly of engine components and perform preventative maintenance and tune-ups. Basic operation, maintenance and minor repair of marine engines including related systems such as: fuel, intake, exhaust, cooling, lube and engine electrical. This course also includes operation and minor troubleshooting of the DDEC electrical system. Please advise personnel to wear appropriate work clothing (i.e.: coveralls, uniforms, work shoes, etc).

Prerequisites

Technician should have a solid foundation in diesel engine operating principles and basic hand tool skills.

SERIES 60 MARINE – DDEC FAMILIARIZATION AND TROUBLESHOOTING (3 DAYS) \$650 **COURSE CODE DDEC-M1**

Objective and Description

This 3 day course is designed to familiarize the technician with the DDEC electrical system, components, wiring and basic troubleshooting procedures. Topics will include control and display systems including DDEC II, III, and IV.

Prerequisites

Basic electrical skills and understanding.