Cummins Engine - Classroom Descriptions, Days and Costs.
>All students registering for class MUST download the Smart Program Guide per program number listed.

Please Note: All Technicians attending class MUST have the following.
> Cummins / Power Gen Techs: Quick Serve On Line Access
> Cummins Virtual College Online Prerequisites Completed (1) Week Prior to Class Start Date

Familiarization courses are designed to familiarize the technician with the engine; they will not qualify the technician on the engine. For engine qualification, please follow the Engine Qualification Course Requirement matrix.

Please note that both 07 Heavy Duty and Mid-Range Combo classes will not be covering the Cummins Virtual College Online. In order to be accepted into the combo classes, all CVCOL pre-requisites must be complete within 1 week of class start date. If not, admission will be denied.

07 ISB/ISC/ISL Engine Qualification, Program # 2006-38Q & 39Q (4 days / Course Fee $1300)
This program will cover all new components, service procedures, and diagnostic testing on the ISB, ISC/ISL CM2150 engines equipped with the Cummins Emissions Solution Aftertreatment System. This program will be an intense 2 days of classroom and hands on training followed by 2 days of written and hands on certification.

07 ISM/ISX HD Engine Qualification, Program # 2006-30 and 31Q (5 days / Course Fee $1625)
This program will cover all new components, service procedures, and diagnostic testing on the ISM-CM876 and ISX-CM871 engines equipped with the Cummins Emissions Solutions Aftertreatment System. This program will be an intense 3 days of classroom and hands on training followed by 2 days of written and hands on certification.

ISX15 / QSX15 CM570/870/871 Injection Static Timing Qualification, Course # 3114 and 3115 (1 day / Course Fee $325)
This is a new qualification class introduced during 2011 & pertains to the ISX CM570/870/871 Engine. The symptom based troubleshooting trees have been written to include this procedure & directs the technician to measure the static injection timing using dial indicators. This qualification is a requirement for the technician to maintain current heavy duty full service qualification status. There will be a written & hands on assessment included. Course 3122 is found on (CVCOL) Cummins Virtual College Online.

ISX Counterbore Qualification, Program # 2011-15Q (2 days / Course Fee $650)
This program is designed to teach students the required procedures for the ISX mid stop counterbore seat repair. The program will have the students perform the actual machine work on an ISX cylinder block using the factory approved repair tools.

2010 MR/HD Engine Qualification, Program # 2009-30/31/37Q (5 days / Course Fee $1625)

For 07 ISX and 07 Midrange Qualified Technicians Only.

This Program will cover all new components, service procedures and diagnostic testing on the new ISX 15, ISB 6.7, ISC 8.3 and ISL 8.9 CM2250 engines. The Fuel systems, Cummins Emission Solution Aftertreatment System and the Selective Catalyst Reduction System will be covered. This program will be an intense 3 days of classroom and hands on training followed by 2 days of written and hands on certification. More >>

All students attending the course must be qualified on the 07 ISX CM871, 07 ISB, ISC, ISL CM2150 engines. This course does not meet the requirements for 07 ISX Heavy Duty Qualification and will not be covered in this class due to time constraints.

2010 ISX 12 CM2250 HD Engine Qualification, Program # 2010-06Q (3 days / Course Fee $975) **For 2010 ISX 15 Qualified Technicians Only**

This course will cover the complete engine disassembly / assembly procedures on the new 2010 ISX 11.9 CM2250 engine. This program will focus on all special service procedures required to properly perform repairs to the engine. Fuel system and clean care steps will be practiced during class. This class is 100 percent hands on training.

2013 MR/HD CM2350 Qualification, Program # 2012-22/24/25/31Q (3 days / Course Fee $975)

This program is designed to teach students about the components and programs that are new to the 2013 ISB/ISL/ISX12 and ISX15 CM2350 Engines. These items include the new sensors, electronic changes, DEF system redesign, OBD compliancy for all 2013 products and EDS (Expert Diagnostics System).

Please note: 2010 Heavy Duty, 2010 Mid Range and the 2010 Heavy Duty/ MidRange Combo classes will not be covering the Cummins Virtual College Online. In order to be accepted into the combo classes, all CVCOL prerequisite courses must be complete within 1 week of class start date. If not, admission will be denied. The maximum class size is 6 technicians.

QSF2.8 CM2880 and QSF3.8 CM2350 Tier 4 Engine Qualification, Program # 2014-01/12Q (5 days / Course Fee $1625)

This class focuses on the new QSF series industrial engines. This course will include complete disassembly of the QSF2.8 or QSF3.8. Also included is an in depth review of the high pressure common rail fuel system, wastegated turbocharger. Cooled exhaust gas recirculation, exhaust aftertreatment systems and electronic control.

ISX NOW (National Overhaul Warranty) Program # 2005-01Q, 2011-17Q, 2013-30Q (5 days / Course Fee $1625)
The ISX National Overhaul Warranty Technician Qualification Course is a course designed to train the technicians in the proper overhaul procedures and inspection criteria set forth by the National Overhaul Warranty Program.

ISM CM570, 870, 875, 876 NOW (National Overhaul Warranty) Program # 2001-03Q, 2011-16Q (5 days / Course Fee $1625)
The ISM National Overhaul Warranty Technician Qualification Course is designed to train the technicians in the proper overhaul procedures and inspection criteria set forth by the National Overhaul Warranty Program.

ISC/ISL NOW LEO (National Overhaul Warranty) Program # 2005-15Q, 2010-32Q, (5 days / Course Fee $1625)
The ISC/L National Overhaul Warranty Technician Qualification Course is designed to train the technicians in the proper overhaul procedures and inspection criteria set forth by the National Overhaul Warranty Program.

Mid-Range Common Rail Fuel System Diagnostics, Program # 2047 (3 days / $900)
This program is designed to teach students advanced fuel system diagnostics using Cummins approved procedures with the use of the INSITE diagnostics software, Cummins Quickserve Online, and Cummins approved tooling. **This program is for the advanced technician who is skilled in the use of these tools.**
The course includes access to QSOL for fuel system specifications, review of fuel system clean care procedures, performing published test procedures and identifying proper test locations and tooling.

This program is 100 percent hands on training. Student knowledge will be assessed through the Midrange Common Rail Diagnostics Proficiency Assessment Course ID # 2047.

B/C Gas Plus Engine Qualification, Program # 2006-06Q & 07Q (5 days / Course Fee $1625)
This course is designed to familiarize students on maintenance, troubleshooting and general service procedures on the Cummins B5.9G/C8.3G Plus Natural gas engine.
Course Material Includes:
Natural gas familiarization.B5.9G / C8.3G Plus engine familiarization. B5.9G / C8.3 Plus maintenance, troubleshooting and service procedures.
COURSE OBJECTIVES:

- Completely understand the characteristics of compressed and liquid natural gas.
- Describe the unique components of the B5.9G/C8.3 Plus engine and describe their function.
- Properly maintain the B5.9G / C8.3 Plus engine & properly diagnose and troubleshoot the fuel and electrical systems.

ISL-G CM2180A/ISX-12 CM2180EJ Cummins Gas Engine Qualification, Program # 2007-28Q, 2012-35Q (5 days / Course Fee $1625)
This course is offered to technicians who require warranty level repair qualification on the current CM2180A Stoichiometric alternative fuel engine. Material covered includes electronic controls, electronic ignition system, stoichiometic fuel system, cooled EGR, and three way aftertreatment system. Through instruction and hands on training, the technician will show competency of understanding the material covered. The technician will be required to pass both a written and hands on test upon completion of the course.

Prerequisites:
BETT & INSITE Updates are required, Alternative Fuels Courses are found on (CVCOL) Cummins Virtual College Online. Completion of ISX 11.9/12 CM2250 Heavy Duty Engine Qualification, Course #2010-06Q.

Please note: Technicians already qualified on the ISL G CM2180A engine, to qualify on the ISX12 G CM2180, must download their ISX12 G CM2180 smart program guide (which includes successful completion of ISX11.9/12 CM2250 Heavy Duty Engine Qualification Course #2010-06Q) and upload the scores to the Service Training Database found on QSOL. These technicians will not be required to attend the ISX12 CM2180EJ classroom training.

Marine QSB 6.7 CM2250 / Smart Craft 2.5, Program # 2011-13Q (5 days / Course Fee $1625)
This course is designed for Cummins distributor & dealer marine technicians to perform warranty repairs on the latest QSB CM2250 engine. Content shall include construction, operation, maintenance & engine identification. The maintenance & troubleshooting of all secondary systems; intake air, exhaust, fuel, lube oil & cooling shall be discussed in depth during this class. As part of this class, the current smart craft 2.5 will be introduced. Theory will consist of vessel electronics & engine controls, wiring diagrams & use of G-3 diagnostic tooling. There will be a written & hands-on assessment included.
Prerequisites: Marine Vessel Electronics Classroom Course # 7005 & 7006
CVC QSB6.7
MR-15, MR-17, MR-18,
CVCOL-2114, 2115

C-Command & C-Command Elite, Course # 7007 & 7008 (3 days / Course Fee $975)

This course is based on the new Cummins Marine Control and Instrumentation Panel which is used on the High Horsepower MCRS engines.
The course covers panel familiarization, component layout and wiring. This course is required for any marine technician who is to be qualified on any Tier 2 High Horsepower Marine Engine.

Cummins Marine Heavy Duty/Midrange Troubleshooting Course (5 days/ Course Fee $1625)

This course will include the following Marine Diesel Engines:

- QSB, QSC, QSL, 480CE, QSM11

The technician will receive qualification status upon successful completion of this course which includes a written test and hands on qualification.

Course instruction includes:

- Hands-On Engine Training.
- Marine Engine secondary systems (intake air, exhaust, lube oil, cooling, fuel and electronics) operation and diagnostics.
- Maintenance, operation and installation requirements, marine specific components, sea trail and marine application requirements.
- Working with Insite, Data Link Adapters and Electronic Control Modules.

Mandatory Prerequisites:
BASIC ELECTRONICS THEORY AND TROUBLESHOOTING
ON LINE-- MR-1, MR-2, MR-3
ON LINE-- HD-1, HD-2, HD-3

Marine Vessel Electronics (7005 & 7006) (3 days/ Course Fee $975)
This course will qualify the student on the Smart Craft 1.0/1.1/2.0/2.1 and 2.2 Vessel Electronics. All CMD
Electronic Engine Technicians must receive this training in order to have qualification status on CMD
Electronic Engines.

Mandatory Prerequisites
Basic Electrical Theory and Troubleshooting

QSK19 CM850 / CM2150 MCRS Tier 1 & 2 Engine Qualification Program # 2005-02Q (3 DAYS / Course Fee $975)
This course is designed to qualify the technician to perform service, diagnostics, troubleshooting and warranty repairs on the QSK19 CM850 / CM2150 MCRS engine. During this course the technician will become familiar with the base engine and all system flows and characteristics of each, maintenance. Throughout the course, diagnostic and troubleshooting techniques on the MCRS engine will be covered. Written and hands-on assessment will provide the necessary certification in confirming the technician's ability to perform warranty repairs.
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Prerequisites Include:
Insite/BETT Qualification
MR/HD Qualification (2007 & Later)

Dealer Warranty Administrator, Program # 2005-06Q (1 day / Course Fee $325)
This class will cover the Cummins Warranty Administration Manual, and claim submitting procedures, including Rapid Serve phone claims and Rapid Serve Web claims. The Rapid Serve website will be demonstrated as well as the areas of QSOL that will be Beneficial to Warranty Administrators. Students will be updated on changes to Cummins