

# Cummins Southern Plains, LLC Engine Training Program January - December 2012



## Company Information

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Cummins Southern Plains, LLC (CSPL) is one of the largest distributors of Cummins engines in the world. We are also an authorized distributor for ZF Industries. CSPL serves a diverse customer base throughout Texas and Oklahoma. Our power generation division is one of the leading Cummins Power Generation equipment and Onan generator suppliers in the industry.

Our business operations include wholesale parts distribution, retail parts sales, engine and power generation equipment sales, and maintenance and repair of diesel and alternative fueled engines, power generation equipment, transmissions and other related products.

CSPL is a factory authorized technical product training center for Cummins and Cummins Power Generation. Corporate Training Programs are available for authorized dealers and customers.

Our primary focus is to prepare our network on the Cummins, Cummins Power Generation and Cummins Onan product lines. Training now includes hands-on training which is product specific. All product training will consist of a computer based prerequisite either through use of the Virtual College Libraries or Power Gen University site. The technician will attend a classroom type course and conclude his/her training with an exam to measure application skills and comprehension.

CSPL's training staff is dedicated to provide excellence, quality and consistence in our training approach to help you excel in the technical aspects of your job. A vast amount of information pertaining to training may be found on the CSPL website at [www.cummins-sp.com](http://www.cummins-sp.com).

## Our Mission

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Provide technicians with the skills necessary to create customer confidence through dependable performance. Design, develop and deliver exceptional training using state of the art technology, equipment and education practices.

## Our Vision

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Proactively plan, develop, and provide superior training and technician development programs using blended training methods, state of the art classroom, web-based, demonstrations, and hands-on training.

## Safety

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CSPL is committed to providing every employee, dealer and customer with a safe workplace and training environment. As a CSPL employee, dealer or customer, you have a duty to comply with all safety rules and regulations. Our policy can be found at [www.cummins-sp.com](http://www.cummins-sp.com).

While visiting our facilities, please be especially aware of hazards that may result in injury. Also, be extra cautious around opportunities for spills and exposure to hazardous materials. In case of an emergency, your host will advise you of proper actions.

## Registration

Class registrations are on a first-come, first-serve basis. A Course Enrollment form must be submitted to register. The form can be accessed at <http://www.cummins-sp.com/training/enrollment.htm>.

There are two ways to register: e-mail or fax.

1. Email: [Kristi.D.Howard@cummins.com](mailto:Kristi.D.Howard@cummins.com) and/or [cspl@cummins-sp.com](mailto:cspl@cummins-sp.com).
2. Fax: Print and complete the registration form and fax to (817) 640-6914.

**Invoicing will be done at the time of registration and a confirmation letter will then be sent via e-mail or fax.**

## Customized Training Classes

At CSPL we understand that some of our customers require more specialized training to better suit their training needs. We are pleased to offer customized training classes that can be modified to suit your training needs. All such requests for customized training should be forwarded to Kristi Howard. A Customized Training Request form must be completed and emailed to Kristi Howard at [Kristi.D.Howard@cummins.com](mailto:Kristi.D.Howard@cummins.com). The form can be accessed at <http://www.cummins-sp.com/training/>.

Please allow a four to six month lead time for customized private training. For scheduling information, please contact the Training Center (817) 640-6898.

## Cancellations

Cancellations must be received in writing at least five (5) business days prior to the class start date in order to avoid a \$200 cancellation fee. If for any reason the training class is canceled by CSPL, students may apply the tuition towards future training classes, or request a refund.

## Course Fees/Payment Procedures

Class fees are shown under the program descriptions. Invoicing will be done at the time of registration. Prior credit approval is necessary for all company purchase orders. Company checks, Visa, MasterCard, American Express and cash are acceptable forms of payment. Checks must be made payable to:

Cummins Southern Plains, LLC  
Attn: Training Center  
600 North Watson Road  
Arlington, TX 76011

Payment of class is required at registration.

### **Class Times**

Classes are held from 8:00am to 5:00pm each day with one hour for lunch. If you need to meet special flight times on the last day of a scheduled class, please coordinate with the instructor on the first day of class.

### **Lodging, Meals and Transportation**

Students are responsible for their lodging, meals and transportation. A list of hotels that offer our students a discounted rate may be found on the CSPL website (<http://www.cummins-sp.com/training/hotels.htm>). Each student is responsible for their own transportation to and from the training center, hotels and airports. Some hotels offer free shuttle service to and from the airport including the Training Center. Contact each hotel for more information about their shuttle service.

### **Parking**

Student parking is available in the parking lot directly in front of the Training Center. Please park in appropriate areas to avoid being towed.

### **Dress Code**

CSPL personnel are required to wear appropriate work clothes and safety shoes. Dealer personnel & customers are encouraged to dress in jeans or Company uniforms. Shorts, sandals and sleeveless shirts are not considered appropriate attire. Earrings, piercing jewelry and chains are not permitted due to safety issues. Personal protective equipment (for example – steel-toed shoes, safety glasses, etc) will be worn by students when working on engines during exercises and hands on qualification in accordance with local requirements and the requirements of the Cummins Safety System.

## Accessing the Smart Program Guide

Every technician has a unique training path and may only need to complete certain Virtual College courses to satisfy specific certification requirements. Access to these requirements may be obtained by utilizing their individual Smart Program Guide. In order to view the Smart Program Guide, the technician must have access to QuickServe Online (QSOL). Once the technician logs in to QSOL, he/she may access the Smart Program Guide by following the steps below:

- Select *Training*
- Select *Service Training*
- Select *Technician*
- Select *Get A Smart Program Guide*
- Select the appropriate market (*Automotive, Non Engine Products, Industrial, Marine or Power Generation*)
- Click on the desired certification
- Click *Print* to print the page

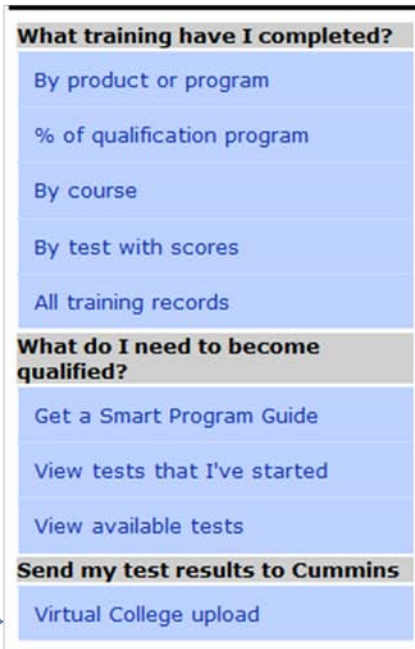
Prerequisites must be complete one week prior to a class start date or the student will not be able to attend the course.

If the technician does not have a Promotion ID, please e-mail the technicians first and last name along with your Cummins dealer code to Kristi Howard at [Kristi.D.Howard@Cummins.com](mailto:Kristi.D.Howard@Cummins.com). QSOL access will also be established.

## Uploading Virtual College Scores

How to upload your virtual college training score

1. **Virtual College upload** – when you finish your cd-rom training, you can upload your training results yourself, click on the link then it will bring you to next slide, tell you how to find the file and upload it



## January – June 2012 Training Schedule

Dates	Days	Class ID	Class Name	Fee	Location
<b>January</b>					
9-13	5	2006-30/31Q	ISX CM871 & ISM CM875 (Heavy Duty 2007)	\$1,375	Arlington
10-12	3	2009-30/31Q	ISB6.7/ISC8.3/ISL9 CM2250 (Midrange 2010)	\$825	San Antonio
16-20	5	BETT/INSITE	Engine 101	\$1,375	San Antonio
17-19	3	2010-06Q	ISX11.9 CM2250	\$975	Arlington
18	1	2005-06Q	North American Dealer Warranty	\$250	Arlington
24-27	4	2009-37Q	ISX15 CM2250 (Heavy Duty 2010)	\$1,100	San Antonio
31-2	3	2009-30/31Q	ISB6.7/ISC8.3/ISL9 CM2250 (Midrange 2010)	\$825	Arlington
<b>February</b>					
6-10	5	2006-30/31Q	ISX CM871 & ISM CM875 (Heavy Duty 2007)	\$1,375	Arlington
7-10	4	2009-37Q	ISX15 CM2250 (Heavy Duty 2010)	\$1,100	San Antonio
13-17	5	BETT/INSITE	Engine 102	\$1,375	Arlington
20-24	5	2006-38/39Q	ISB/C/L CM2150 (Midrange 2007)	\$1,375	San Antonio
28-1	3	2005-15Q	C/L NOW Overhaul	\$750	Arlington
<b>March</b>					
5-9	3		Injection Timing		TBD
6-9	4	2009-37Q	ISX15 CM2250 (Heavy Duty 2010)	\$1,100	OKC
7	1	2005-06Q	North American Warranty	\$250	Arlington
12-16	5	2006-30/31Q	ISX CM871 & ISM CM875 (Heavy Duty 2007)	\$1,375	San Antonio
19-23	5	BETT/INSITE	Engine 103	\$1,375	OKC
19-23	5	2010-16/17Q	Midrange Tier 4	\$1,375	Arlington
20-22	3	2009-30/31Q	ISB6.7/ISC8.3/ISL9 CM2250 (Midrange 2010)	\$825	San Antonio
26-30	5	2006-06/07/08Q	B/C/L Gas Plus	\$1,250	Arlington
<b>April</b>					
3-5	3	2009-30/31Q	ISB6.7/ISC8.3/ISL9 CM2250 (Midrange 2010)	\$825	Arlington
2-5	4	2007-28Q	ISLG CM2180 Natural Gas	\$1,100	Arlington
10-13	4	2009-37Q	ISX15 CM2250 (Heavy Duty 2010)	\$1,100	San Antonio
16-20	5	2002-06/2003-23	Engine 104	\$1,375	Houston
16-20	5	2006-30/31Q	ISX CM871 & ISM CM875 (Heavy Duty 2007)	\$1,375	Arlington
23-27	5	2006-38/39Q	ISB/C/L CM2150 (Midrange 2007)	\$1,375	Houston
<b>May</b>					
1-4	4	2007-28Q	ISLG CM2180 Natural Gas	\$1,100	Arlington
7-11	5	2002-03/08Q	Engine 105	\$1,375	Arlington
8-10	3	2006-30/31Q	ISX CM871 & ISM CM875 (Heavy Duty 2007)	\$1,375	San Antonio
9	1	2005-06Q	North American Warranty	\$250	Arlington
14-18	5	2006-38/39Q	ISB/C/L CM2150 (Midrange 2007)	\$1,375	San Antonio
15-18	4	2009-37Q	ISX15 CM2250 (Heavy Duty 2010)	\$1,100	Arlington
22-24	3	2009-30/31Q	ISB6.7/ISC8.3/ISL9 CM2250 (Midrange 2010)	\$825	San Antonio
22-24	3	2010-06Q	ISX11.9 CM2250	\$975	Arlington
<b>June</b>					
5-7	3	2009-30/31Q	ISB6.7/ISC8.3/ISL9 CM2250 (Midrange 2010)	\$825	Arlington
11-15	5	2006-30/31Q	ISX CM871 & ISM CM875 (Heavy Duty 2007)	\$1,375	San Antonio
25-29	5	2006-30/31Q	ISX CM871 & ISM CM875 (Heavy Duty 2007)	\$1,375	San Antonio

## July - December 2012 Training Schedule

Dates	Days	Class ID	Class Name	Fee	Location
<b>July</b>					
9-13	5	VoTech	VoTech	NA	Arlington
16-20	5	BETT/INSITE	Engine 101	\$1,375	Arlington
24-27	4	2009-37Q	ISX15 CM2250 (Heavy Duty 2010)	\$1,100	OKC
25	1	2005-06Q	North American Warranty	\$250	Arlington
<b>August</b>					
7-9	3	2010-06Q	ISX11.9 CM2250	\$975	Arlington
7-10	4	2009-37Q	ISX15 CM2250 (Heavy Duty 2010)	\$1,100	Houston
13-17	5	BETT/INSITE	Engine 102	\$1,375	Arlington
13-17			HHP		Mesquite
14-17	4	2007-28Q	ISLG CM2180 Natural Gas	\$1,100	Arlington
21-23	3	2010-06Q	ISX11.9 CM2250	\$975	Arlington
27-31	5	2006-38/39Q	ISB/C/L CM2150 (Midrange 2007)	\$1,375	San Antonio
<b>September</b>					
10-14	5	BETT/INSITE	Engine 103	\$1,375	OKC
10-14	5	2010-16/17Q	Midrange Tier 4	\$1,375	Arlington
10-14	5	2006-30/31Q	ISX CM871 & ISM CM875 (Heavy Duty 2007)	\$1,375	San Antonio
12	1	2005-06Q	North American Warranty	\$250	Arlington
18-20	3	2009-30/31Q	ISB6.7/ISC8.3/ISL9 CM2250 (Midrange 2010)	\$825	Arlington
18-21	4	2009-37Q	ISX15 CM2250 (Heavy Duty 2010)	\$1,100	San Antonio
24-28	5	2006-06/07/08Q	B/C/L Gas Plus	\$1,250	Arlington
<b>October</b>					
1-5	5	2006-38/39Q	ISB/C/L CM2150 (Midrange 2007)	\$1,375	Arlington
8-12	5	2006-30/31Q	ISX CM871 & ISM CM875 (Heavy Duty 2007)	\$1,375	San Antonio
15-19	5	2002-06/2003-23	Engine 104	\$1,375	Houston
16-18	3	2009-30/31Q	ISB6.7/ISC8.3/ISL9 CM2250 (Midrange 2010)	\$825	Arlington
22-26			HHP		Arlington
23-26	4	2009-37Q	ISX15 CM2250 (Heavy Duty 2010)	\$1,100	San Antonio
30-2	4	2007-28Q	ISLG CM2180 Natural Gas	\$1,100	Arlington
31	1	2005-06Q	North American Warranty	\$250	Arlington
<b>November</b>					
5-9	5	2002-03/08Q	Engine 105	\$1,375	Arlington
6-8	3	2010-06Q	ISX11.9 CM2250	\$975	Arlington
12-16	5	2006-38/39Q	ISB/C/L CM2150 (Midrange 2007)	\$1,375	San Antonio
13-16	5	2006-30/31Q	ISX CM871 & ISM CM875 (Heavy Duty 2007)	\$1,375	Arlington
13-15	4	2009-37Q	ISX15 CM2250 (Heavy Duty 2010)	\$1,100	Arlington
26-30	5	2006-30/31Q	ISX CM871 & ISM CM875 (Heavy Duty 2007)	\$1,375	Arlington
27-30	4	2009-37Q	ISX15 CM2250 (Heavy Duty 2010)	\$1,100	Arlington
27-29	3	2009-30/31Q	ISB6.7/ISC8.3/ISL9 CM2250 (Midrange 2010)	\$825	San Antonio
<b>December</b>					
4-6	3	2010-06Q	ISX11.9 CM2250	\$975	Arlington
10-14	5	2006-30/31Q	ISX CM871 & ISM CM875 (Heavy Duty 2007)	\$1,375	Arlington
18-20	3	2009-30/31Q	ISB6.7/ISC8.3/ISL9 CM2250 (Midrange 2010)	\$825	San Antonio
18-21	4	2009-37Q	ISX15 CM2250 (Heavy Duty 2010)	\$1,100	Arlington

## Automotive

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### **2001-01/02Q            NOW Technician/Machinist Qualification**

This course details the philosophy of the NOW (National Overhaul Warranty) program and plans available. It includes parts reuse and repair guidelines as well as discussion of the 17 inspected items. Each student will be required to machine an 855/N14 cylinder block for LPF liners and counterbore repair sleeves.

Tooling required:

Cummins Part #	Description
3823495	Dial Depth Gauge
3375072	Dial Bore Gauge
3823292	Dual Ring Gauge (6.294/6.334)
3823293	Dual Ring Gauge (6.750/6.770)
3822955	LPF Cuter Plate for Existing Portamatic
3823325	Complete Portamatic
3823326	Ledge Cutter (manual)
3823373	Ledge Cutter Plate
ST-1252	Cylinder Block Concentricity gauge

**Class Size: 8**

**Days: 5**

**Cost: \$1250**

### **2001-03Q            NOW Technician Qualification**

This course details the philosophy of the NOW (National Overhaul Warranty) program and plans available. It includes parts reuse and repair guidelines as well as discussion of the 17 inspected items.

**Prerequisites:** Refer to CVC Smart Program Guide

**Class Size: 8**

**Days: 2**

**Cost: \$500**

### **2005-01Q            ISX NOW Qualification**

This course details the philosophy of the NOW (National Overhaul Warranty) program and plans available. Topics covered include: proper documentation, overhaul requirements, parts inspection, cleaning procedures, parts reuse guidelines, assembly practices, and proper engine overhaul procedures. Written and practical application testing involved.

**Prerequisites:** ISX-CM870 Qualified

**Class Size: 8**

**Days: 3**

**Cost: \$750**

### **2005-15Q            C and L Series NOW Qualification**

This course details the philosophy of the NOW (National Overhaul Warranty) program and plans available. Topics covered include: proper documentation, overhaul requirements, parts inspection, cleaning procedures, parts reuse guidelines, assembly practices, and proper engine overhaul procedures. Written and practical application testing involved.

**Prerequisites:** Refer to CVC Smart Program Guide

**Class Size: 8**

**Days: 3**

**Cost: \$750**  
 **Southern Plains**

## **2002-03Q ISX CM870 Engine Qualification**

This course designed to qualify the experienced technician on the ISX CM870 engines. Emphasis is placed on the fuel system, electronic control system and EGR system. Also included in this course are INSITE, troubleshooting and wiring diagram interpretation. Practical application testing involved.

**Prerequisites:** Refer to CVC Smart Program Guide

**Class Size:** 8

**Days:** 3

**Cost:** \$750

## **2002-06Q ISB CM850 Engine Qualification**

This course designed to qualify the experienced technician on the ISB CM850 engines. Emphasis is placed on the fuel system, electronic control system and EGR system. Also included in this course are INSITE, troubleshooting and wiring diagram interpretation. Practical application testing involved.

**Prerequisites:** Refer to CVC Smart Program Guide

**Class Size:** 8

**Days:** 3

**Cost:** \$750

## **2003-23Q ISC/ISL CM554 and CM850 Engine Qualification**

This course designed to qualify the experienced technician on the ISC and ISL engines. Emphasis is placed on the fuel system, electronic control system and VGT system. Also included in this course are INSITE, troubleshooting and wiring diagram interpretation. Practical application testing involved.

**Prerequisites:** Refer to CVC Smart Program Guide

**Class Size:** 8

**Days:** 3

**Cost:** \$750

## **2006-30/31Q 2007 ISX CM871 and ISM CM876 Engine Qualification**

This course is a combination class designed to qualify the experienced technician on the 2007 ISX and ISM engines. Emphasis is placed on the changes to the electronic control systems. Changes to the EGR system and the addition of the aftertreatment system are also detailed. Also included in this course are INSITE, troubleshooting and wiring diagram interpretation. Written and practical application testing involved.

**Prerequisites:** Refer to CVC Smart Program Guide

**Class Size:** 8

**Days:** 5

**Cost:** \$1375

## **2006-38/39Q 2007 ISB/C/L CM2150 Midrange Engine Qualification**

This course designed to qualify the experienced technician on the ISB/C/L CM2150 engines. Emphasis is placed on the changes to the electronic control systems. Changes to the EGR system and the addition of the aftertreatment system are also detailed. Also included in this course are INSITE, troubleshooting and wiring diagram interpretation. Written and practical application testing involved.

**Prerequisites:** Refer to CVC Smart Program Guide

**Class Size:** 8

**Days:** 5

**Cost:** \$1375

### **2009-30/31Q ISB6.7/ISC8.3/ISL9 CM2250 Full Service Qualification (EPA 2010)**

This course is structured to qualify the experienced technician on the 2010 ISB6.7/ISC/8.3/ISL9 CM2250 engines. Emphasis is placed on changes to the fuel system, fully integrated electronic control system, next generation cooled EGR system, advanced VG Turbocharger, improved aftertreatment system, and the addition of Selective Catalytic Reduction (SCR) to ensure 2010 EPA Nox compliance. Also included in this course are current version INSITE support, diagnostic troubleshooting techniques, and wiring diagram interpretation. Written and practical application testing will be required.

**Prerequisites:** Completion of the applicable courses detailed in the Midrange CVC Library p/n 4091856 and 2006-38/39Q 2007 ISB/C/L CM2150 Midrange Engine Qualification.

**Class Size: 6**

**Days: 3**

**Cost: \$825**

### **2009-37Q ISX15 CM2250 Full Service Qualification (EPA 2010)**

This course is structured to qualify the experienced technician on the 2010 ISX CM2250 engine. Emphasis is placed on the changes to the fuel system (XPI Common Rail), fully integrated electronic control system, next generation cooled EGR system, advanced VG Turbocharger, improved aftertreatment system, and the addition of Selective Catalytic Reduction (SCR) to ensure 2010 EPA Nox compliance. Also included in this course are current version INSITE support, diagnostic troubleshooting techniques, and wiring diagram interpretation. Written and practical application testing will be required.

**Prerequisites:** Completion of the applicable courses detailed in the CVC Heavy Duty Library p/n 4091874 and 2006-30/31Q 2007 ISX CM871 and ISM CM876 Engine Qualification.

**Class Size: 6**

**Days: 4**

**Cost: \$1100**

### **2010-06Q ISX11.9 CM2250 Engine Qualification**

The course covers in detail all aspects of this new engine platform and engine subsystems. The engine is disassembled and all components are discussed in detail. The engine is then assembled utilizing the proper assembly and adjustment procedures. \*\*\*PLEASE NOTE: Safety Shoes (steel-toe) must be worn during the entire class \*\*\*  
Written and hands-on testing involved.

**Prerequisites:** Qualification on ISX CM871, ISM CM876, ISX15 and Virtual College

**Class Size: 6**

**Days: 3**

**Cost: \$975**

## **2006-06/07/08Q      B/C/L Gas Plus Engine Qualification**

This course covers B, C and L Plus series engines that operate on compressed natural gas (CNG) and liquefied natural gas (LNG). Topics of this course include safety procedures, engine familiarization, schedule maintenance, and troubleshooting of engine systems and controls. Written and practical application testing involved.

**Prerequisites:** Refer to CVC Smart Program Guide

**Class Size:** 8

**Days:** 5

**Cost:** \$1250

## **2007-28Q                      ISL G CM2180 Natural Gas Engine Qualification**

This course covers design and operation of the ISL G CM2180 natural gas engine. Emphasis of the CM2180 electronic control system, governor control system, CNG and LNG natural gas fuels, stoichiometric fuel system, electronic ignition control system, troubleshooting skills, service and maintenance procedures, safety procedures, tooling, and exhaust aftertreatment.

**Prerequisites:** Refer to CVC Smart Program Guide

B/C/L Gas Plus Engine Qualification (for distributor technicians only)

**Class Size:** 8

**Days:** 4

**Cost:** \$1100

## **Midrange Fleet Familiarization & Troubleshooting**

Familiarization of the B5.9, ISB, C8.3 and ISC/ISL engines. Injector removal and installation, gauge troubleshooting, manual usage and basic electrical theory, and digital meter reading are covered in this program. The student is also introduced to Cummins Electronic Fuel Systems and the INSITE program.

**Prerequisites:** None

**Class Size:** 12

**Days:** 5

**Cost:** \$1250

## **Heavy Duty Fleet Familiarization & Troubleshooting**

Familiarization of the M11/M11Plus, ISM, ISX and Signature engines. Injector removal and installation, gauge troubleshooting, manual usage and basic electrical theory. The student is also introduced to Cummins Electronic Fuel Systems and the INSITE program.

**Prerequisites:** None

**Class Size:** 12

**Days:** 5

**Cost:** \$1250

## Engine Apprentice 101

This course is for Cummins Southern Plains, LLC technicians only. Each student will receive a review of Cummins Southern Plains history, company's policies and expectations for employees. This course includes Basic Diesel Theory of Operations, Hands-on Lab for introduction to QuickServe Online, and lab exercises for INSITE. The class is completed with Legacy Engines of Midrange products, features, and fuel systems.

**Prerequisites:** BETT and INSITE qualification (refer to pages 16-17)

**Class Size:** 8

**Days:** 5

## Engine Apprentice 102

This course is for Cummins Southern Plains, LLC technicians only. Students are familiarized with Cummins Basic Electronic Troubleshooting (B.E.T.T), theory of electrical systems, circuits, and circuit building, OHMS Law and calculating resistance totals and total amperes of circuits. The interaction between ECM and sensors, fault code state changes, and test leads.

**Prerequisites:** Engine Apprentice 101, MR-1, MR- 2, and MR-3 Online testing.

**Class Size:** 8

**Days:** 5

## Engine Apprentice 103

This course is for Cummins Southern Plains, LLC technicians only. Students will receive hands-on experience with the Legacy Heavy Duty products; the N-14 and M-11 are utilized for hands-on experience with injection removal and installation, overhead check and adjust. Classroom discussion will consist of Engine Theory and introduction to the Signature 600.

**Prerequisites:** Engine Apprentice 102, HD-1, HD-2, and HD-3 Online testing.

**Class Size:** 8

**Days:** 5

## Engine Apprentice 104

This course is for Cummins Southern Plains, LLC technicians only. This course designed for the experienced technician to better understand the ISB/C/L CM850 engines. Emphasis is placed on the fuel system, electronic control system and EGR and VGT systems. Also included in this course are INSITE, troubleshooting and wiring diagram interpretation. Practical application testing involved.

**Prerequisites:** 2002-06Q and 2003-23Q Virtual College Completion and Engine Apprentice 103

**Class Size:** 8

**Days:** 5

## Engine Apprentice 105

This course is for Cummins Southern Plains, LLC technicians only. This course is designed for the experienced technician to better understand the ISX CM870 engine. Emphasis is placed on the fuel system, electronic control system and EGR system. Also included in this course are INSTE, troubleshooting and wiring diagram interpretation. Practical application testing involved.

**Prerequisites:** 2002-03Q and 2002-08Q Virtual College Completion and Engine 104.

**Class Size:** 8

**Days:** 5

## Industrial

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### **1995-15Q**

### **QSK19 CM500 Engine Qualification**

This course is to qualify a technician to troubleshoot and repair the original QSK19 base engine and subsystems. The course will familiarize technicians with electronic controls and the fuel system. Also included in this course are INSITE, troubleshooting and wiring diagram interpretation. Written and practical application testing involved.

*Prerequisites: Refer to CVC Smart Program Guide*

**Class Size: 8**

**Days: 4**

**Cost: \$1100**

### **2003-05Q**

### **CNGE Industrial Natural Gas Engine Qualification**

This course is designed to familiarize technicians with all engine systems and subsystems of the stationary natural gas or propane products. Emphasis is placed on fuel systems, ignition systems and commissioning. Troubleshooting and adjusting fuel and ignition systems. Written and practical application testing involved.

*Prerequisites: Knowledge of base engine mechanicals*

**Class Size: 8**

**Days: 3**

**Cost: \$750**

### **2005-02Q**

### **QSK19 CM850 MCRS Engine Qualification**

This course is to qualify a technician to troubleshoot and repair the QSK19 CM850 MCRS (Tier III) base engine and subsystems. The course will familiarize technicians with electronic controls and the common rail fuel system. Also included in this course are INSITE, troubleshooting and wiring diagram interpretation. Written and practical application testing involved.

*Prerequisites: Refer to CVC Smart Program Guide*

**Class Size: 8**

**Days: 3**

**Cost: \$825**

### **2005-03Q/2006-35Q QSB and QSC/L CM850 Engine Qualification**

This course designed to qualify the experienced technician on the Quantum Midrange engines in industrial applications. Emphasis is placed on the fuel systems and electronic control systems. Also included in this course are INSITE, troubleshooting and wiring diagram interpretation. Practical application testing involved.

*Prerequisites: Refer to CVC Smart Program Guide*

**Class Size: 8**

**Days: 4**

**Cost: \$1000**

### **2006-40Q**

### **QSX15 Tier 3 Qualification**

This course designed to qualify the experienced technician on the QSX engines in industrial applications. Emphasis is placed on the fuel systems and electronic control systems. Also included in this course are INSITE, troubleshooting and wiring diagram interpretation. Practical application testing involved.

*Prerequisites: Refer to CVC Smart Program Guide*

**Class Size: 8**

**Days: 3**

**Cost: \$825**

## Cummins Industrial Course Descriptions

### **2007-31Q**

### **Industrial Gas CM558 (SLB & LE) Engine Qualification**

This course covers the new CM558 Industrial Gas engines. Both SLB (simple lean burn) and LE (low emissions) using a catalyst technology is covered. Emphasis is placed on natural gas as a fuel, natural gas analysis, initial engine setup and adjustments, Cummins Gas Analysis web tool, elevation & timing adjustments, exhaust O2 level adjustments, Nox level adjustments, gas pressure, fuel system plumbing and filtration, carburetor adjustment, ignition system, troubleshooting skills, service & maintenance procedures, safety procedures, service tools, exhaust aftertreatment, and information resources. Written and hands-on testing assures competency.

**Prerequisites:** Refer to CVC Smart Program Guide

**Class Size:** 8

**Days:** 5

**Cost:** \$1250

### **2010-16/17Q**

### **QSB6.7/QSL 9 CM2250 Tier IV Qualification**

Upon completion of this course, the technician will have become familiar with the design, functions and operation of the QSB6.7 and QSL9 CM2250 engines. Technicians will be capable of troubleshooting and repair of the engine and aftertreatment system using approved tools and service procedures. Students must demonstrate competency in locating the latest diagnostic and repair procedures on QuickServe Online as well as demonstrating proper engine and exhaust aftertreatment system maintenance procedures and knowledge of engine and fuel system clean care practices. Written and hands-on assessments will be given to measure competency.

**Prerequisites:** Refer to CVC Smart Program Guide

**Class Size:** 8

**Days:** 5

**Cost:** \$1375

## Marine

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### **2006-48/57Q**

### **Marine WSB5.9 CM850/QSC8.3/QSL9 CM850 Midrange Engine Marine QSM11 CM570 Heavy Duty Engine**

This 5 day program has replaced the following previous Qualified Marine Technician (QMT) courses: QMT-I (A), QMT-III, QMT IV, and QMT-VI. Current marine technicians who have successfully completed all of the previous QMT Midrange and Heavy Duty courses will be "Grandfathered" into this new program. New marine technicians and those who have completed only part of the previous 4 QMT courses will be required to attend this new program to remain qualified. Upon completion of the program, technicians will become competent in installation/application requirements, initial start-up review, sea trial procedures, and unique troubleshooting techniques relative to all Midrange and Heavy Duty marine engines. Those models include mechanical B/C, 480C-e, QSM11, QSB, QSC, and QSL marine engines.

**Prerequisites:** Refer to CVC Smart Program Guide

**Class Size:** 8

**Days:** 5

**Cost:** \$1375

## Non Engine Products

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### **2005-06Q**

### **Cummins Worldwide Warranty Qualification**

Familiarizes the student with an understanding of the proper claim preparation, documentation and procedures. The warranty workshop includes a review of Cummins Rapid Serve procedures. Qualification testing is required.

**Prerequisites:** Refer to CVC Smart Program Guide

**Class Size:** 12

**Days:** 1

**Cost:** \$250

### **WebCUMPAS/Quickserve Familiarization**

This workshop familiarizes the student with an understanding of the various functions of WebCUMPAS, QuickServe Online and RapidServe. Emphasis will be placed on navigation, search capabilities and guidelines needed to fully utilize these programs. This course is recommended for all service supervisors, parts professionals and warranty administrators. This workshop complements the Warranty Qualification class and it is held in conjunction with scheduled Warranty classes.

**Prerequisites:** Active Log-on ID for QSOL (Contact Training Center for process)

**Class Size:** 8

**Days:** ½ (1pm – 5pm)

**Cost:** \$100

## Cummins Virtual College Programs/Libraries

For those locations already EPA 2007 and 2010 certified, the following update kits are offered to bring existing Cummins Virtual College Libraries up to the latest version. All interim CVC library CDs released between 2007 and 2010 are included in the update at no additional cost.

<b>Kit No</b>	<b>Virtual College Materials</b>
<b>4091963</b>	<b>Midrange Library UPDATE</b> 3 New – Gen17, MR13, MR12 6 Interim – Gen1, Gen14, Gen15, Gen16, MR10, MR11
<b>4091965</b>	<b>Heavy Duty Library UPDATE</b> 4 New – Gen17, HD16, HD17, HD18 7 Interim – Gen15, Gen16, HD10, HD11, HD12, HD13, HD14
<b>4091978</b>	<b>Heavy Duty ISX11.9 Library UPDATE</b> 4 New – HD22, HD 23, HD24, HD 25 1 Interim – GEN20

For those locations that are new to Cummins, a new Virtual College Library will be required.

<b>Kit No</b>	<b>Virtual College Materials</b>
4091858	Midrange Library v3.5
4091875	Heavy Duty Library v3.3
4091966	Warranty Library
4091983	Alternative Fuels Library v3.2
4091880	High Horse Power v3.2
4091890	Compact Power v3.1

For locations that lose a CVC CD or have damaged CD's, CVC singles have been released.

<b>No.</b>	<b>Virtual College Materials</b>
4091964	MR-12 (Euro5 products)
4091962	MR-13 (EPA10 Midrange)
4091958	Gen-17 (Insite and BETT update)
4091982	Gen-20 (Update to EPA 07 products, ISX CM870 and CM871)
4091959	HD-16 (Heavy Duty)
4091960	HD-17 (Heavy Duty)
4091961	HD-18 (Heavy Duty)

For ordering, please call the  
Parts Department at (817) 640-6991, option 2

## BETT Qualification

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BETT is a general training requirement for all Cummins electronic engines. As new products are introduced, additional BETT requirements may be required.

If you have completed previous BETT requirements, your qualification status may have changed from green to yellow on the ProMotion database.

To change your status from yellow back to green, the % of qualification program may display the following courses:

Course Description	CD-ROM ID
(BETT-U06) BETT - added 2006 content	Subprogram
(BETT-Y06) BETT - Year 2006 (equiv. to 422/423)	Subprogram
[1003] Introduction To Electrical Troubleshooting, SLT 0.4 hour	Gen-2 (b/n 4091907)
[1004] Basic Electrical Theory, SLT 0.8 hour	Gen-2 (b/n 4091907)
[1005] Digital Multimeter Usage, SLT 0.6 hour	Gen-2 (b/n 4091907)
[1006] Electrical Circuits, SLT 0.7 hour	Gen-2 (b/n 4091907)
[1008] Electronic Control System Inputs, SLT 0.8 hour	Gen-3 (b/n 4091908)
[1009] Electronic Control System Processors, SLT 0.4 hour	Gen-3 (b/n 4091908)
[1010] Electronic Control System Outputs, SLT 0.4 hour	Gen-3 (b/n 4091908)
[1011] Electronic Control System Identification, SLT 0.4 hour	Gen-3 (b/n 4091908)
[1012] Electrical Diagrams, SLT 0.4 hour	Gen-4 (b/n 4091909)
[1013] Electrical Wiring, SLT 0.7 hour	Gen-4 (b/n 4091909)
[1014] Multiplexing, SLT 0.4 hour	Gen-4 (b/n 4091909)
[1015] Troubleshooting Techniques For Electronic Control Systems, SLT 0.4 hour	Gen-5 (b/n 4091910)

## INSITE Qualification

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INSITE is a general training requirement for all Cummins electronic engines. As new products are introduced, additional INSITE requirements may be required.

IF you have completed previous INSITE requirements, your qualification status may have changed from green to yellow on the ProMotion database.

To change your status from yellow back to green, the % of qualification program may display the following courses:

<b>Course Descriptions</b>	<b>CD-ROM ID</b>
(INSITE-U06) INSITE - added 2006 content	Subprogram
(INSITE-Y06) INSITE new course equiv. for 420 & 421	Subprogram
[1027] Insite - Windows Familiarization, SLT 0.4 hour	Gen-6 (b/n 4091911)
[1028] Insite Registering And Fuctionality, SLT 0.3 hour	Gen-6 (b/n 4091911)
[1029] Insite - Operation, SLT 1.0 hour	Gen-6 (b/n 4091911)
[1030] Insite - Read And Reset Fault Codes, SLT 0.4 hour	Gen-6 (b/n 4091911)
[1031] Insite - Diagnostic Operation, SLT 0.3 hour	Gen-6 (b/n 4091911)
[1032] Insite - Reading And Adjusting Features And Parameters, SLT 0.4 hour	Gen-6 (b/n 4091911)
[1033] Insite - Ecm Calibration, SLT 0.4 hour	Gen-6 (b/n 4091911)
[1034] Insite - Multimodule Calibration, SLT 0.3 hour	Gen-6 (b/n 4091911)
[1035] Insite - Ecm Data, SLT 0.4 hour	Gen-7 (b/n 4091912)
[1036] Insite - Work Orders, SLT 0.3 hour	Gen-7 (b/n 4091912)
[1037] Insite - Printing And File Manipulation, SLT 0.3 hour	Gen-7 (b/n 4091912)

## Cummins Virtual College Standard Learning Times (SLT)

SLT	Course Number and Name	DiscNumber
0.3	1000-Introduction to Aftertreatment Systems	Gen-1
0.7	1001-Passive Aftertreatment Service and Troubleshooting	Gen-1
0.4	1003-Introduction to Electrical Troubleshooting	Gen-2
0.8	1004-Basic Electrical Theory	Gen-2
0.6	1005-Digital Multimeter Usage	Gen-2
0.7	1006-Electrical Circuits	Gen-2
0.8	1008-Electronic Control System Inputs	Gen-3
0.4	1009-Electronic Control System Processors	Gen-3
0.4	1010-Electronic Control System Outputs	Gen-3
0.4	1011-Electronic Control System Identification	Gen-3
0.4	1012-Electrical Diagrams	Gen-4
0.7	1013-Electrical Wiring	Gen-4
0.4	1014-Multiplexing	Gen-4
0.4	1015-Troubleshooting Techniques for Electronic Control Systems	Gen-5
0.4	1027-INSITE - Windows Familiarization	Gen-6
0.3	1028-INSITE - Registering and Functionality	Gen-6
1.0	1029-INSITE - Operation	Gen-6
0.4	1030-INSITE - Read and Reset Fault Codes	Gen-6
0.3	1031-INSITE - Diagnostic Operation	Gen-6
0.4	1032-INSITE - Reading and Adjusting Features and Parameters	Gen-6
0.4	1033-INSITE - ECM Calibration	Gen-6
0.3	1034-INSITE - Multi-module Calibration	Gen-6
0.4	1035-INSITE - ECM data	Gen-7
0.4	1016-Diesel Fuel System Functions	Gen-8
0.3	1017-Fuel System Identification	Gen-8
0.3	1018-Select Unit Injector Systems	Gen-8
0.6	1019-Quantum Unit Injector Systems	Gen-8
0.3	1020-HPI-TP Unit Injector Systems	Gen-8
0.3	1036-INSITE - Work Orders	Gen-8
0.7	1021-Bosch VP44 Distributor Pump Systems	Gen-9
0.5	1022-Cummins Accumulator Pump Systems	Gen-9
0.3	1037-INSITE - Printing and File Manipulation	Gen-9
0.6	1023-Common Rail Systems	Gen-10
0.5	1024-Common Fuel System Problems	Gen-10
0.6	1025-Fuel Sub-System Component Malfunctions	Gen-11
0.3	1026-Fuel System Electrical Problems	Gen-11
0.4	1039-QuickServe Online Introduction for Service Professionals	Gen-12
1.0	1040-QuickServe Online Searches for Service Professionals	Gen-12
0.4	1041-Fuel System Clean Care	Gen-12
0.8	1042-Engine Clean Care	Gen-12
0.6	1043-Principles of Hydrocarbon Injection	Gen-13
0.9	1044-Maintenance of Cummins Aftertreatment System	Gen-13

## Cummins Virtual College Standard Learning Times (SLT)

SLT	Course Number and Name	DiscNumber
0.2	1045-Marine Introduction	Gen-14
0.5	1046-Marine Vessel Hull Type	Gen-14
0.8	1047-Marine Vessel Performance	Gen-14
0.5	1048-Marine Engine Data Plate and Engine General Data Sheet	Gen-14
0.8	1049-Marine Vessel Engine Driveline	Gen-14
0.3	1050-Marine Fuel Consumption Troubleshooting	Gen-14
0.3	1051-Marine Vibration Analysis	Gen-14
0.8	1052-Marine Vessel Sea Trials	Gen-14
0.2	1054-EPA07 Aftertreatment Review	Gen-15
0.7	1055-EPA07 Aftertreatment System Operator Interface	Gen-15
0.3	1056-EPA07 Aftertreatment System and Vehicle Operation	Gen-15
0.2	1061-ISX CM871, ISM CM876, ISB CM2150, ISC/ISL CM2150 Air Handling Clean Care	Gen-16
0.3	1062-ISX Camshaft Gear Removal and Installation	Gen-16
0.3	1063-Heavy Duty and Midrange Coolant Drain and Fill Procedures	Gen-16
0.1	1064-ISX Cylinder Cutout Test	Gen-16
0.1	1065-ECM Calibrations on QSOL	Gen-16
0.1	1066-Radiator Cap Pressure Test	Gen-16
0.3	1067-ISX Injector Diagnostics	Gen-16
0.3	1057-INSITE 7.2 Update	Gen-17
0.5	1058-MCRS Calibration	Gen-17
0.8	1059-Airless SCR Aftertreatment Systems	Gen-17
1.0	1060-Aftertreatment SCR Catalyst System with DOC and DPF	Gen-17
1.5	1078-CM2250 Controls	Gen-17
0.9	1079-BETT Update 1.0	Gen-17
1.0	1082-Air Driven Aftertreatment SCR Catalyst System	Gen-18
0.5	1083-Euro On-Board Diagnostics (EOBD)	Gen-18
0.4	1085-Expert Diagnostic System Overview	Gen-19
0.4	1086-Expert Diagnostic System Search	Gen-19
0.7	1087-Expert Diagnostic System Session	Gen-19
0.8	1092-QSOL Service 2010 Update	Gen-20
0.5	1093-Turbocharger Shroud Plate Repair Procedure	Gen-20
0.5	1094-Diesel Particulate Filter Cleaning in Reference to Fault Codes 1922 and 1981	Gen-20

## Cummins Virtual College Standard Learning Times (SLT)

SLT	Course Number and Name	DiscNumber
0.6	3000-QSX15 Tier 3 Introduction	HD-1
0.6	3001-QSX15 Tier 3 Shop Talk	HD-1
0.3	3002-X-Series Base Engine Cooling System Flow	HD-2
0.4	3003-X-Series Base Engine Lubrication System Flow	HD-2
0.2	3004-X-Series IFSM Flow (Suction Side Fuel Filtration)	HD-2
0.2	3005-X-Series IFSM Flow (Pressure Side Fuel Filtration)	HD-3
0.4	3006-X-Series IFSM Fuel Actuator Control and Injector Operation	HD-4
0.5	3008-X-Series Engine Brake	HD-4
0.4	3007-X-Series Front Gear Train	HD-5
0.5	3010-ISX CM871 Introduction	HD-5
0.5	3011-ISX CM871 Electronic Controls	HD-5
0.2	3012-ISX CM871 Component Coolant Flow	HD-5
0.9	3013-Cool Side EGR Air Handling Familiarization	HD-5
0.4	3014-Aftertreatment Hydrocarbon Injection System ISX CM871/ISM CM876	HD-6
0.6	3017-ISX CM871 Shop Talk	HD-6
1.2	3015-ISX CM871 Mechanicals	HD-7
0.4	3018-ISM CM876 Introduction	HD-8
0.6	3019-ISM CM876 Electronic Controls	HD-8
0.3	3020-ISM Cooling System	HD-8
0.4	3021-ISM Lubrication System	HD-8
0.3	3022-ISM Fuel System	HD-8
0.3	3023-ISM Engine Brake	HD-8
0.6	3024-ISM Mechanicals	HD-9
0.4	3025-ISM CM876 Shop Talk	HD-9
0.2	3030-Crankcase Breather ISX CM871/ ISM CM876	HD-9
0.4	3035-ISX07 EX Introduction	HD-10
0.6	3036-ISX07 EX Shop Talk	HD-10
0.2	3037-ISM07 EX Introduction	HD-10
0.4	3038-ISM07 EX Shop Talk	HD-10
0.5	3039-ISM CM570 Introduction	HD-11
0.4	3040-ISM CM570/CM870 Introduction	HD-11
0.4	3041-ISM CM875 Introduction	HD-11
0.4	3042-ISX CM570 Introduction	HD-11
0.4	3043-ISX CM870 Introduction	HD-11
0.6	3044-ISM/ISX Electronic Troubleshooting and Repair	HD-11
0.8	3045-ISM/ISX Hot Side EGR Familiarization	HD-12
0.6	3046-Diesel Combustion Review	HD-12
0.8	3047-Variable Geometry Turbocharger Cross Shaft	HD-13
0.6	3048-ISX CM870 / ISM CM875 Hot Side EGR Valve Troubleshooting Update	HD-14
0.3	3049-ISM11 CM876 SN Introduction	HD-15
0.7	3051-ISX15 CM2250 Introduction	HD-16
1.0	3052-ISX15 CM2250 Fuel System	HD-16

## Cummins Virtual College Standard Learning Times (SLT)

SLT	Course Number and Name	DiscNumber
1.0	3053-ISX15 CM2250 Mechanicals	HD-17
0.1	3054-ISX15 CM2250 Component Cooling Flow	HD-17
0.4	3059-ISX15 CM2250 Virtual Engine Build	HD-17
0.3	3055-ISX15 CM2250 Lubrication Flow	HD-18
0.2	3056-ISX15 CM2250 Air Handling	HD-18
0.3	3057-EPA HD OBD	HD-18
0.4	3058-ISX15 CM2250 Parts Technical Training	HD-18
0.4	3060-ISX15 CM2250 Engine Brake	HD-18
0.6	3061-ISX15 CM2250 Maintenance Section 1	HD-18
0.9	3062-ISX15 CM2250 Maintenance Section 2	HD-18
0.6	3063-ISZ13 CM2150 Introduction	HD-19
1.0	3064-ISZ13 CM2150 Controls	HD-19
1.2	3066-ISZ13 CM2150 Fuel System	HD-19
1.4	3067-ISZ13 CM2150 Mechanicals	HD-20
0.3	3068-ISZ13 CM2150 Virtual Engine Build	HD-20
0.3	3069-ISZ13 CM2150 Cooling System	HD-20
0.3	3070-ISZ13 CM2150 Lubrication System	HD-20
0.3	3071-ISZ13 CM2150 Air System	HD-20
0.4	3073-ISZ13 CM2150 Parts Technical Training	HD-21
0.6	3074-ISZ13 CM2150 Maintenance Section 1	HD-21
0.5	3075-ISZ13 CM2150 Maintenance Section 2	HD-21
0.3	3076-ISZ13 CM2150 Engine Brake	HD-21
0.7	3079-ISX11.9 CM2250 Introduction	HD-22
0.4	3080-ISX11.9 CM2250 Virtual Engine Build	HD-22
0.1	3082-ISX11.9 CM2250 Component Cooling Flow	HD-22
0.2	3083-ISX11.9 CM2250 Air System	HD-22
0.3	3084-ISX11.9 CM2250 Rear Engine Power Take-Off Unit	HD-22
1.2	3081-ISX11.9 CM2250 Fuel System	HD-23
0.6	3085-ISX11.9 CM2250 Mechanicals Section 1	HD-24
0.2	3090-ISX11.9 CM2250 Cooling System	HD-24
0.3	3091-ISX11.9 CM2250 Lubrication System	HD-24
1.5	3086-ISX11.9 CM2250 Mechanicals Section 2	HD-25
0.4	3087-ISX11.9 CM2250 Parts Technical Training	HD-26
0.7	3088-ISX11.9 CM2250 Maintenance Section 1	HD-26
1.0	3089-ISX11.9 CM2250 Maintenance Section 2	HD-26

## Cummins Virtual College Standard Learning Times (SLT)

SLT	Course Number and Name	DiscNumber
0.5	2000-B Series Engine Mechanicals	MR-1
1.0	2002-B Series Rear Gear Train	MR-1
0.5	2003-B Series Engine Cooling Systems	MR-1
0.5	2004-B Series Engine Lube Systems	MR-2
1.4	2005-B Series Engine Air Systems	MR-2
0.6	2006-Introduction to QSB4.5 and QSB6.7 Engines	MR-3
1.0	2007-QSB4.5 and QSB6.7 Engines - Shop Talk	MR-3
1.0	2012-QSC8.3 & QSL9 CM850 Introduction	MR-4
0.6	2013-QSC8.3 & QSL9 CM850 Shop Talk	MR-4
1.2	2008-C and L Series Mechanicals	MR-5
0.4	2009-C and L Series Air Systems	MR-6
0.4	2010-C and L Series Lube Systems	MR-6
0.3	2011-C and L Series Cooling Systems	MR-6
0.4	2014-SCR Active Aftertreatment	MR-7
0.6	2015-ISBe4 Introduction	MR-7
0.8	2016-ISBe4 Shop Talk	MR-7
0.9	2019-ISB CM2150 Introduction	MR-8
0.5	2020-ISB CM2150 Shop Talk	MR-8
0.8	2021-ISC/ISL CM2150 Introduction	MR-8
0.6	2022-ISC/ISL CM2150 Shop Talk	MR-8
0.3	2023-ISC/ISL CM2150 Fuel System	MR-8
0.4	2024-ISB/ISC/ISL CM2150 Crankcase Breather	MR-8
0.5	2025-ISB/ISC/ISL CM2150 Control System	MR-8
0.9	2029-Cool Side EGR Air Handling Familiarization	MR-9
0.9	2044-ISB CM2150 without Aftertreatment Introduction	MR-10
0.4	2045-ISB CM2150 without Aftertreatment Shop Talk	MR-10
0.6	2039-ISLe4 Introduction	MR-11
0.2	2040-OBD Fault Usage	MR-11
0.3	2041-ISLe4 Shop Talk	MR-11
0.8	2057-ISB4.5 and ISB6.7 CM2150 SN Introduction	MR-12
0.3	2058-ISB4.5, ISB6.7, and ISL8.9 CM2150 SN Shop Talk	MR-12
0.4	2059-ISB4.5, ISB6.7, and ISL8.9 CM2150 SN Control System	MR-12
0.7	2065-ISL8.9 CM2150 SN Introduction	MR-12
0.6	2077-ISB6.7 CM2250 Introduction	MR-13
0.6	2078-ISB6.7 CM2250 Virtual Engine Build	MR-13
0.8	2079-ISC8.3 and ISL9 CM2250 Introduction	MR-13
0.7	2080-ISB6.7, ISC8.3, and ISL9 CM2250 Engine Maintenance-Section 1	MR-13
0.8	2081-ISB6.7, ISC8.3, and ISL9 CM2250 Engine Maintenance-Section 2	MR-13
0.5	2082-ISB6.7,ISC8.3, and ISL9 CM2250 Parts Technical Training	MR-13
0.7	2090-QSB6.7 CM2250 Introduction	MR-14
0.9	2091-QSL9 CM2250 Introduction	MR-14
1.4	2092-QSB6.7 and QSL9 CM2250 Shop Talk	MR-14
0.6	2093-QSB6.7 and QSL9 CM2250 Parts Technical Training	MR-14

## Cummins Virtual College Standard Learning Times (SLT)

SLT	Course Number and Name	DiscNumber
0.5	2095-QSB6.7 CM2250 Virtual Engine Build	MR-15
0.5	2096-QSL9 CM2250 Virtual Engine Build	MR-15
0.9	2099-QSB6.7 and QSL9 CM2250 Maintenance Section 1	MR-15
0.6	2100-QSB6.7 and QSL9 CM2250 Maintenance Section 2	MR-15
0.2	5001-B Gas Plus Introduction	AF-1
0.2	5002-BGI Introduction	AF-1
0.2	5003-B LPG Introduction	AF-1
0.2	5004-C Gas Plus Introduction	AF-1
0.2	5005-L Gas Plus Introduction	AF-1
0.4	5006-Plus Natural Gas Ignition Systems Lean Burn	AF-1
0.3	5007-B Series Gas Engine Ignition System Lean Burn	AF-1
0.4	5008-C Gas Plus and L Gas Plus Ignition Systems	AF-1
0.5	5009-Plus Natural Gas Fuel System Lean Burn	AF-2
0.2	5013-B LPG Fuel System	AF-2
0.3	5014-Mechanical B Series (2 valve head) Lubrication System	AF-2
0.3	5015-C Gas Plus Lubrication System	AF-2
0.3	5016-L Gas Plus Lubrication System	AF-2
0.2	5017-Mechanical B Series (2 valve head) Cooling System	AF-2
0.1	5018-Mechanical C Series (2 valve head) Cooling System	AF-2
0.4	5028-B Plus, BGI, C Plus and L Plus Fuel Systems	AF-2
0.2	5019-L Gas Plus Cooling System	AF-3
0.5	5020-B Gas Plus Controls	AF-3
0.4	5021-BGI Controls	AF-3
0.5	5022-B LPG Controls	AF-3
0.5	5023-C Gas Plus Controls	AF-3
0.5	5024-L Gas Plus Controls	AF-3
0.1	5025-Closed Crankcase Ventilation (CCV) System for Natural Gas	AF-3
0.2	5026-Midrange Gas Overhead and Valve Train Assembly	AF-3
0.1	5027-Gas Plus Shop Talk	AF-3
0.8	5031-ISL G CM2180A Introduction	AF-4
1.2	5032-ISL G CM2180A Controls	AF-4
0.3	5033-ISL G CM2180A Three-Way Catalyst	AF-4
0.3	5034-ISL G CM2180A Fuel Familiarization	AF-4
0.4	5042-ISB5.9G CM2180 Introduction	AF-5
0.4	5043-ISB5.9G CM2180 Shop Talk	AF-5

## Cummins Virtual College Standard Learning Times (SLTs)

SLT	Course Number and Name	DiscNumber
1.4	2033-B3.3 and QSB3.3 CM2150 Introduction	CP-1
0.3	2034-B3.3 and QSB3.3 CM2150 Controls	CP-1
2.0	2035-B3.3 and QSB3.3 CM2150 Shop Talk	CP-2
0.8	2048-ISF3.8 CM2220 and ISF 3.8 CM2220 AN Introduction	CP-3
0.3	2049-ISF3.8 CM2220 and ISF 3.8 CM2220 AN Controls	CP-3
0.6	2050-F3.8 Liter Engine Fuel	CP-3
0.7	2051-F3.8 Liter Engine Lubrication	CP-3
0.3	2052-F3.8 Liter Engine Cooling	CP-3
0.2	2053-F3.8 Liter Engine Air Handling	CP-3
0.6	2054-F3.8 Liter Base Engine	CP-4
0.7	2055-F3.8 Liter Base Engine Maintenance	CP-5
0.8	2069-ISF2.8 CM2220 E and ISF2.8 CM2220 AN Introduction	CP-5
0.4	2070-ISF2.8 CM2220 Maintenance	CP-5
0.4	2071-F2.8 Series CM2220 Control System	CP-5
0.6	2072-F2.8 Series Mechanical Systems	CP-5
0.3	2073-F2.8 Series Fuel System	CP-5
0.3	2074-F2.8 Series Air Handling System	CP-5
0.2	2075-F2.8 Series Cooling System	CP-5
0.4	2076-F2.8 Series Lubrication System	CP-5
0.3	2086-F2.8 Series Chain Drive System	CP-5
0.5	2056-ISF3.8 CM2220 and ISF3.8 CM2220 AN Parts Training	CP-6
0.2	4001-QSK19 CM850 MCRS Introduction	HHP-1
0.8	4002-QSK19 CM850 MCRS Fuel System	HHP-1
0.2	4003-QSK19 CM850 MCRS Electronic Control System	HHP-1
0.2	4004-QSK19 CM850 MCRS Lubrication	HHP-1
0.1	4005-QSK19 CM850 MCRS Cooling System	HHP-1
0.1	4006-QSK19 CM850 MCRS Air Handling System	HHP-1
0.2	4007-QSK19 CM850 MCRS Mechanical Subsystem	HHP-1
0.6	4010-QSK50 Introduction	HHP-2
0.4	4011-QSK50 Fuel System	HHP-2
0.2	4012-QSK MCRS Injectors	HHP-2
0.7	4013-QSK MCRS CM850 Controls Components	HHP-2
0.8	4014-QSK MCRS CM850 Controls Features and Parameters	HHP-2
0.4	4015-QSK MCRS CM850 Controls Troubleshooting	HHP-2
1.0	4018-Fuel Quality for High Horsepower MCRS Engines	HHP-3

## Cummins Virtual College Standard Learning Times (SLTs)

SLT	Course Number and Name	DiscNumber
0.4	9001-Customer Support Excellence	SA-1
0.3	9002-Treat Others as You Would Like to be Treated	SA-1
0.4	9003-You are Cummins to the Customer	SA-1
0.3	9004-Professionalism	SA-1
0.2	9005-Meeting the Customer's Needs	SA-1
0.1	9006-Customer Service Basics Final Exam	SA-1
0.4	9007-Managing the Customer Experience	SA-1
0.3	9008-Your Job is to Fix the Customer	SA-1
0.2	9009-Servicing Different Types of Customers	SA-1
0.1	9010-The Role of a Service Advisor Final Exam	SA-1
0.2	9011-The Impact of Your Position	SA-1
0.3	9012-Preparation	SA-1
0.4	9013-BMS 101	SA-1
0.7	9014-Customer Interview Process	SA-1
0.3	9015-Payment	SA-1
0.6	9016-SRTs	SA-1
0.3	9017-Upselling	SA-2
0.5	9018-Understanding the QuickServe Service Process	SA-2
0.1	9019-On the Job Final Exam	SA-2
0.4	9020-Step One: Customer Greeting	SA-2
0.4	9021-BMS - Opening an Existing Customer's Record	SA-2
0.3	9022-BMS - New Customer Setup	SA-2
0.1	9023-Final Customer Communication	SA-2
0.1	9024-The Real Job Final Exam	SA-2

## Cummins Virtual College Standard Learning Times (SLTs)

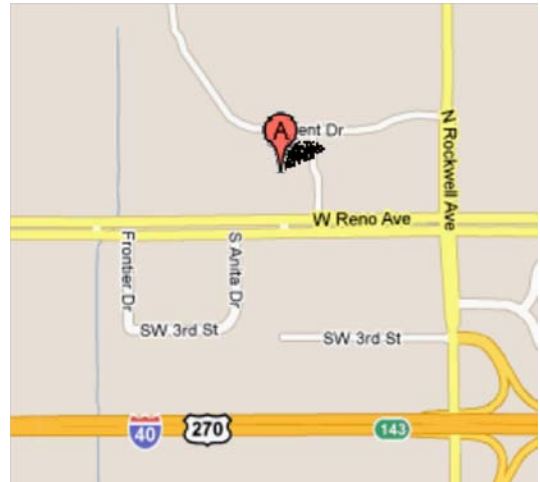
SLT	Course Number and Name	DiscNumber
0.6	8000-Warranty Terminology	W-4
0.2	8001-Warranty Terminology Review and Test	W-4
0.2	8002-The Warranty Partnership	W-4
0.1	8003-The Four C's	W-4
0.2	8004-The Repair Order	W-4
0.1	8005-Process Architecture	W-4
0.2	8006-Warranty Architecture Review and Test	W-4
0.3	8007-Warranty Philosophy	W-4
0.2	8008-Warranty Philosophy Review and Test	W-4
0.1	8009-Policy	W-4
0.1	8010-Policy Review and Test	W-4
0.7	8011-Quickserve Online	W-4
0.1	8012-QSQL Review and Test	W-4
0.6	8013-Warranty Administration Manual	W-4
0.1	8014-Warranty Alerts	W-4
0.2	8015-WAM and Warranty Alerts Review and Test	W-4
0.1	8016-Warranty Failure Code Manual	W-4
0.1	8017-Failure Code Manual Review and Test	W-4
0.2	8018-Standard Repair Time Manual Overview	W-4
0.1	8019-SRT Manual Review and Test	W-4
0.2	8020-TRPs and Campaigns	W-4
0.2	8021-TRPs and Campaigns Review and Test	W-4
0.3	8022-Warranty Process: RAPIDSERVE	W-4
0.2	8023-RAPIDSERVE Review and Test	W-4
0.3	8024-RAPIDSERVE Web	W-4
0.1	8025-RAPIDSERVE Web Review and Test	W-4
1.2	8027-BMS	W-4
0.1	8028-BMS Review and Test	W-4
0.2	8029-Lotus Notes	W-4
0.1	8030-Lotus Notes Review and Test	W-4
0.3	8035-RapidServe Web Customer Version	W-4
0.1	8036-RAPIDSERVE Web Customer Version Review and Test	W-4
0.3	8037-Global Web	W-4
0.1	8038-Global Web Review and Test	W-4

## Cummins Training Facilities



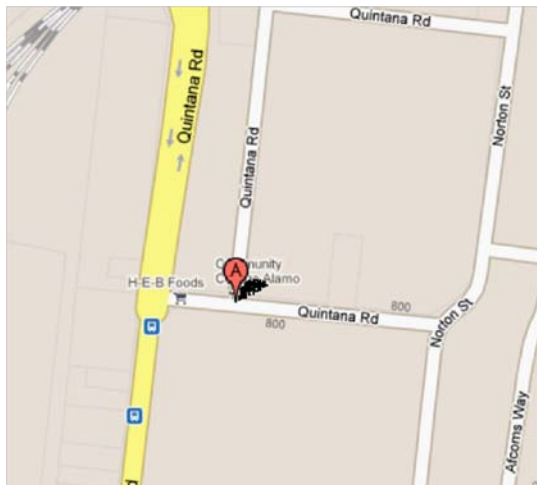
### Arlington

Cummins Southern Plains, LLC  
Training Center  
620 North Watson Road  
Arlington, TX 76011



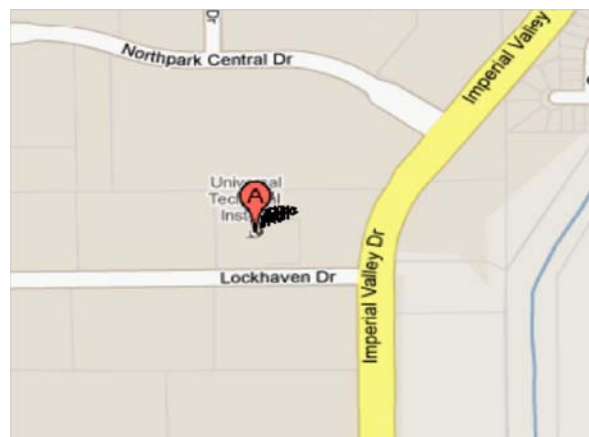
### Oklahoma City

Francis Tuttle Technology Center  
Diesel Technology Center  
7301 West Reno Ave.  
Oklahoma City, OK 73127



### San Antonio

St. Phillips College – Southwest Campus  
Diesel Technology Center  
800 Quintana Road  
San Antonio, Texas 78211



### Houston

Universal Technical Institute  
Diesel Technology Center  
721 Lockhaven Drive  
Houston, Texas 77073

## Arlington, TX

### Holiday Inn

1311 N. Wet N Wild Way  
Arlington, TX 76011  
(817) 460-2500

[www.hiarlingtontx.com](http://www.hiarlingtontx.com)

\$69 per night plus tax

### Hyatt Place–Arlington/Grand Prairie

1542 North Highway 360  
Grand Prairie, TX 75050  
(972) 988-6800

[www.hyattplacedallasnortharlington.com](http://www.hyattplacedallasnortharlington.com)

Corp #96366

\$69 per night plus tax

### Hyatt Place – Dallas/Arlington

2380 E. Road to Six Flags Street  
Arlington, TX 76011  
(817) 649-7676

[www.hyattselect.com](http://www.hyattselect.com)

\$70 per night plus tax

### SpringHill Suites by Marriott

1975 East Lamar Blvd  
Arlington, TX 76006  
(817) 860-2737

[www.marriott.com](http://www.marriott.com)

\$70 per night plus tax

*Most hotels offer free shuttle services to and from the airport including the training center.*

*Please mention Cummins Southern Plains to obtain the Cummins discount rate.*

## Oklahoma City, OK

### Homewood Suites by Hilton

6920 West Reno  
Oklahoma City, OK 73127  
(405) 789-3600

[www.oklahomacitywest.homewoodsuites.com](http://www.oklahomacitywest.homewoodsuites.com)

\$79 per night plus tax

### SpringHill Suites by Marriott

510 South MacArthur  
Oklahoma City, OK 73128  
(405) 604-0200

[www.marriott.com](http://www.marriott.com)

\$89 per night plus tax

## San Antonio, TX

### Staybridge Suites Sunset Station

123 Hoefgen  
San Antonio, TX 78204  
(210) 444-2700

<http://cumminsrates.com>

\$99 per night plus tax

### Hyatt Place San Antonio Airport

7615 Jones Maltsberger Road  
San Antonio, TX 78216  
(210) 930-2333

<http://sanantonioplace.hyatt.com>

\$89 per night plus tax

## Houston, TX

### Hampton Inn & Suites

150 Wagon Point Drive  
Houston, TX 77090  
(281) 866-0404

[www.hamptoninn.com](http://www.hamptoninn.com)

\$79 per night plus tax

**Amarillo**

5224 Interstate 40 East  
Amarillo, TX 79103  
Phone: 806-373-3793

**Mesquite**

2615 Big Town Blvd  
Mesquite, TX 75150  
Phone: 214-321-5555

**Arlington (Corporate Office)**

600 N Watson Rd  
Arlington, TX 76011  
Phone: 817-640-6801

**Odessa**

1210 South Grandview  
Odessa, TX 79761  
Phone: 432-332-9121

**Dallas**

3707 Irving Blvd  
Dallas, TX 75247  
Phone: 214-631-6400

**Austin**

1308 Chisholm Trail Rd. Ste. 112  
Round Rock, TX 78681  
Phone: 512-388-4296

**Fort Worth**

3250 North Freeway  
Fort Worth, TX 76111  
Phone: 817-624-2107

**San Antonio**

6226 Pan Am Expressway N.  
San Antonio, TX 78218  
Phone: 210-655-5420

**Houston**

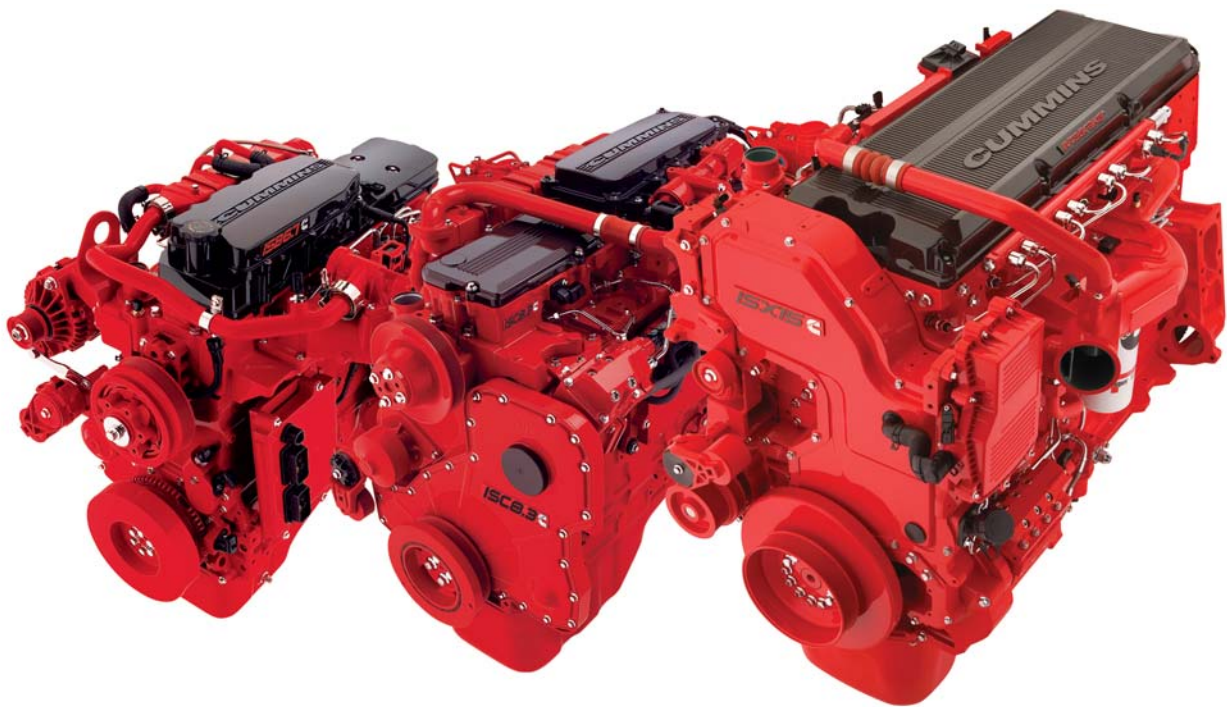
7045 N Loop 610 East  
Houston, TX 77028  
Phone: 713-679-2220

**Tulsa**

16525 E Skelly Dr.  
Tulsa, OK 74116  
Phone: 918-234-3240

**Oklahoma City**

5800 West Reno  
Oklahoma City, OK 73127  
Phone: 405-946-4481



Visit us online at [www.cummins-sp.com/training](http://www.cummins-sp.com/training)