

Cummins Engines Class Descriptions

Cummins Southern Plains, Ltd.

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: See Engine Training Requirements Insert

Class length: 1 day

ISX CM870 Engine

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: See Engine Training Requirements Insert

Class length: 3 days

ISB CM850 Engine

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: See Engine Training Requirements Insert

Class length: 3 days

QSB, QSC and QSL Tier III Engines

This course designed to qualify the experienced technician on the Quantum mid-range 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: See Engine Training Requirements Insert

Class length: 5 days

Heavy Duty Fleet Familiarization & Troubleshooting

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

Prerequisites: None

Course length: 5 days

Mid-Range Fleet Familiarization & Troubleshooting

Familiarization of the B5.9, ISB, C8.3 and ISC engines.

Injector removal and installation gauge troubleshooting, manual use and basic electrical theory (including Ohms Law), 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

Course Length: 5 days

NOW Technician Qualification

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

Prerequisites: See Engine Training Requirements Insert

Class length: 1-½ days

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NOW Technician/Machinist Qualification

This course details the philosophy of the N.O.W. (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.

Prerequisites: See Engine Training Requirements Insert

- 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 length: 3 ½ days

ISX NOW Technician Qualification

This course details the philosophy of the N.O.W. (National Overhaul Warranty) program and plans available for the ISX engine. It includes parts reuse and repair guidelines as well as complete engine build using N.O.W. guidelines.

Prerequisites: See Engine Training Requirements Insert

Class length: 3 days

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.

Prerequisites: See Engine Training Requirements Insert

Course Length: 5 days

QSK19 CM850 MCRS Engine Qualification

This course is to qualify a technician to troubleshoot and repair the QSK19 CM850 MCRS base engine and subsystems. The course will familiarize technicians with electronic controls and the common rail fuel system.

Prerequisites: See Engine Training Requirements Insert

Course Length: 3 days

Cummins Natural Gas Stationary Engines

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.

Prerequisites: See Engine Training Requirements Insert

Course Length: 3 days

Custom Classes

Custom Classes can be tailored to meet customer expectations. Please contact the CSPL Training Center to discuss format and availability

Cummins Engine Training Requirements

Cummins Southern Plains, Ltd.

1995-05Q - B5.9G Engine Qualification

1995-02 - INSITE 6
1995-09 - B5.9G Service and Troubleshooting (Classroom)
1997-09 - Natural Gas Familiarization (CVC B/N 3898627)
2001-01 - B.E.T.T. (Virtual College)
1995-09 - B5.9G Service and Troubleshooting (Classroom)

1995-15Q - QSK19 Engine Qualification

1995-02 - INSITE 6
1995-12 - QSK19 Engine and Fuel System
2001-01 - B.E.T.T. (Virtual College)
1995-12 - QSK19 Engine and Fuel System

1997-03Q - C8.3G Engine Qualification

1997-09 - Natural Gas Familiarization (CVC B/N 3898627)
1997-07 - C8.3G Engine (Classroom)
2001-01 - B.E.T.T. (Virtual College)
1995-02 - INSITE 6
1997-07 - C8.3G Engine (Classroom)
1997-11 - C8.3 250G Engine (CVC B/N 3898587)

1999-01Q - QSK 45/60 Engine Qualification

1995-02 - INSITE 6
1999-73 - QSK 45/60 Engines (CVC B/N 3898777)
2001-01 - B.E.T.T. (Virtual College)
1999-71 - QSK 45/60 Engines (Classroom)

1999-02Q - QST30 Industrial Engine Qualification

1995-02 - INSITE 6
1999-74 - QST30 Industrial Engine (CVC B/N 3898847)
1999-72 - QST30 Industrial Engine (Classroom)
2001-01 - B.E.T.T. (Virtual College)
1995-02 - INSITE 6

2000-51Q - ISB/QSB5.9 Engine Qualification

2000-45 - ISB Engine (CVC B/N 3898607)
2000-88 - Diagnostics Proficiency Assessment
2001-01 - B.E.T.T. (Virtual College)
1995-02 - INSITE 6

2000-54Q - ISM Engine Qualification

2000-48 - ISM/Signature Electronic Feature & Controls (CVC B/N 3898747)
2000-86 - ISM Engine (CVC B/N 3898757)
2000-88 - Diagnostics Proficiency
2001-01 - B.E.T.T. (Virtual College)
1995-02 - INSITE 6

2000-55Q - QSM11 Engine Qualification

2000-49 - QSM11 Industrial Features & Controls (CVC B/N 3898917)
2000-86 - ISM Engine (CVC B/N 3898757)
2000-88 - Diagnostics Proficiency Assessment
2001-01 - B.E.T.T. (Virtual College)
1995-02 - INSITE 6

2000-56Q - ISX/Signature Engine Qualification

2000-48 - ISM/Signature Electronic Feature & Controls (CVC B/N 3898747)
2000-50 - Signature Engine (CVC B/N 3898767)
2000-88 - Diagnostics Proficiency Assessment
2001-01 - B.E.T.T. (Virtual College)
1995-02 - INSITE 6

Cummins Engine Training Requirements

Cummins Southern Plains, Ltd.

2000-57Q - QSX15 Engine Qualification

2000-49 - QSX15/QSM11 Industrial Features & Controls (CVC B/N 3898917)
2000-50 - Signature Engine (CVC B/N 3898767)
2000-58 - QSX15 Engines & ISX Update (CVC B/N 3898887)
2000-88 - Diagnostics Proficiency Assessment
2001-01 - B.E.T.T. (Virtual College)
1995-02 - INSITE 6

2000-65Q - B Series Engine Qualification

1991-09 - MR-2 Test (3387770/3387780)
1991-10 - MR-3 Test (3666087/3387800/3387810)

2000-66Q - C Series Engine Qualification

1991-08 - MR-1 Test (3666003/3387760)
1991-09 - MR-2 Test (3387770/3387780)

2000-67Q - L10/M11 (Mechanical Only) Engine Qualification

1991-05 - HD-1 Test (3666139)

2000-68Q - N14 (Mechanical Only) Engine Qualification

1991-06 - HD-2 Test (3666142/3898120)

2000-69Q - L10/M11 (Mechanical and Electronic) Engine Qualification

2001-01 - B.E.T.T. (Virtual College)
1991-05 - HD-1 Test (3666139)
1991-07 - HD-3 Test (3666130/3898130)
1995-02 - INSITE 6

2000-70Q - N14 (Mechanical and Electronic) Engine Qualification

2001-01 - B.E.T.T. (Virtual College)
1991-06 - HD-2 Test (3666142/3898120)
1991-07 - HD-3 Test (3666130/3898130)
1995-02 - INSITE 6

2001-01Q - NOW Machinist/Technician Qualification (NT, N4, L10,M11, ISM)

2001-01Q - NOW Machinist/Technician Qualification (NT, N4, L10,M11, ISM)
2001-13 - NT,N14,L10,M11,ISM Engine Overhaul
2001-01Q - NOW Machinist/Technician Qualification (NT, N4, L10,M11, ISM)
1991-05 - HD-1 Test (3666139)
1991-06 - HD-2 Test (3666142/3898120)

2001-02Q - NOW Machinist Qualification (NT, N14, L10, M11, ISM)

2001-02Q - NOW Machinist Qualification (NT, N14, L10, M11, ISM)

2001-03Q - NOW Technician Qualification (NT, N14, L10, M11, ISM)

2001-03Q - NOW Technician Qualification (NT, N14, L10, M11, ISM)
2001-13 - NT,N14,L10,M11,ISM Engine Overhaul
1991-05 - HD-1 Test (3666139)
1991-06 - HD-2 Test (3666142/3898120)

2001-08Q - ISB (4 Cyl.) & ISBe (4 & 6 Cyl.) Engine Qualification - Full Service

2001-10 - ISB (4 Cyl.) & ISBe (4 & 6 Cyl.) Engine Course - Full Service
2000-88 - Diagnostics Proficiency Assessment
2001-12 - ISB (4 Cyl.) & ISBe (4 & 6 Cyl.) Engine Assessment - Full Service
2001-02 - INSITE - 6
2001-01 - B.E.T.T. (Virtual College)

2001-33Q - C8.3G Engine Qualification

2001-02 - INSITE - 6
2001-01 - B.E.T.T. (Virtual College)
2001-44 - C8.3G Plus Engine
1997-09 - Natural Gas Familiarization (CVC B/N 3898627)
1997-07 - C8.3G Engine (Classroom)

Cummins Engine Training Requirements

Cummins Southern Plains, Ltd.

- 2002-03Q - ISX CM870 Engine-Full Service Qualification (Full Service Learning Pat**
 - 2000-48 - ISM/Signature Electronic Feature & Controls (CVC B/N 3898747)
 - 2001-02 - INSITE - 6
 - 2001-01 - B.E.T.T. (Virtual College)
 - 2000-88 - Diagnostics Proficiency Assessment
 - 2002-56 - ISX-CM870 Engine Service Level (CVC B/N 4091820)
 - 2001-27 - EGR Air Handling Familiarization
- 2002-06Q - ISB CM850 Engine-Full Service Qualification (Full Service Learning Pat**
 - 2001-02 - INSITE - 6
 - 2001-01 - B.E.T.T. (Virtual College)
 - 2000-88 - Diagnostics Proficiency Assessment
 - 2002-58 - ISB-CM850 Engine Full Service Level (CVC B/N 4091821)
 - 2001-27 - EGR Air Handling Familiarization
- 2002-08Q - ISM CM870 Engine-Full Service Qualification (Full Service Learning Pa**
 - 2000-48 - ISM/Signature Electronic Feature & Controls (CVC B/N 3898747)
 - 2000-86 - ISM Engine (CVC B/N 3898757)
 - 2001-02 - INSITE - 6
 - 2001-01 - B.E.T.T. (Virtual College)
 - 2000-88 - Diagnostics Proficiency Assessment
 - 2001-27 - EGR Air Handling Familiarization
 - 2002-56 - ISX-CM870 Engine Service Level (CVC B/N 4091820)
- 2002-60Q - QSK78 Engine Qualification**
 - 2001-01 - B.E.T.T. (Virtual College)
 - 2002-61 - QSK78 Engine Assessment
 - 2001-26 - QSK78 Engine (CVC B/N 4091822)
 - 1995-02 - INSITE 6
- 2002-63Q - QSK23 Engine Technician Qualification**
 - 2001-02 - INSITE - 6
 - 2001-01 - B.E.T.T. (Virtual College)
 - 2002-65 - QSK23 Engine Cummins Virtual College (B/N 4091829)
 - 2002-66 - QSK23 Engine Classroom and Hands On Assessment
 - 2002-67 - QSK45/60 Engine - Control Section (CVC B/N 3898777)
- 2002-82Q - B6.7s&B4.5s Structural Block Engine Qualification**
 - 2002-99 - B6.7s&B4.5s Structural Block (CVC B/N 4091823)
- 2003-05Q - Cummins Carbureted Engine Qualification**
 - 2003-85 - Cummins Carbureted Engine
- 2003-19Q - A1400/A1700/A2000/A2300 & A2300T Engine Qual.(Techs full Svc. Learning**
 - 2003-61 - A1400/A1700/A2000/A2300 & A2300T (CVC B/N 4091828) - Full Svc. Learning
- 2003-23Q - ISC/ISL CM850 Full Serv Qualification(also qualifies for 2004-07Q,08Q)**
 - 2001-02 - INSITE -6
 - 2001-01 - B.E.T.T. (Virtual College)
 - 2000-88 - Diagnostics Proficiency Assessment
 - 2003-64 - ISC/ISL Engine Evolution CVC (B/N 4091830) - Full Service
- 2004-05Q - B5.9G Plus Engine Qualification**
 - 2004-53 - B5.9G Plus Engine(Classroom)
 - 1997-09 - Natural Gas Familiarization (CVC B/N 3898627)
 - 2001-02 - INSITE -6
 - 2001-01 - B.E.T.T. (Virtual College)
 - 1995-09 - B5.9G Service and Troubleshooting (Classroom)

Cummins Engine Training Requirements

Cummins Southern Plains, Ltd.

2004-06Q - C8.3G Plus Engine Qualification

2004-54 - C8.3G Plus Engine(Classroom)
1997-09 - Natural Gas Familiarization (CVC B/N 3898627)
2001-02 - INSITE - 6
2001-01 - B.E.T.T. (Virtual College)
1997-07 - C8.3G Engine (Classroom)

2004-07Q - ISC/QSC/ISCe Engine (completion of 2003-23Q completes this requirement

2004-55 - CAPS Fuel System Review and Update (CVC B/N 4091831)
2001-02 - INSITE - 6
2001-01 - B.E.T.T. (Virtual College)
2000-88 - Diagnostics Proficiency Assessment
2003-64 - ISC/ISL Engine Evolution CVC (B/N 4091830) - Full Service

2004-08Q - ISL/QSL Engine (completion of 2003-23Q completes this requirement)

2004-55 - CAPS Fuel System Review and Update (CVC B/N 4091831)
2001-02 - INSITE - 6
2001-01 - B.E.T.T. (Virtual College)
2000-88 - Diagnostics Proficiency Assessment
2003-64 - ISC/ISL Engine Evolution CVC (B/N 4091830) - Full Service

2004-11Q - QSM CM570 Engine Qualification

2000-49 - QSX15/QSM11 Industrial Features & Controls (CVC B/N 3898917)
2000-86 - ISM Engine (CVC B/N 3898757)
2001-02 - INSITE - 6
2001-01 - B.E.T.T. (Virtual College)
2000-88 - Diagnostics Proficiency Assessment

2005-01Q - NOW technician Qualification (ISX, ISX CM870)

2000-48 - ISM/Signature Electronic Feature & Controls (CVC B/N 3898747)
2001-02 - INSITE - 6
2001-01 - B.E.T.T. (Virtual College)
2005-50 - NOW Technician(ISX, ISX CM870)
2000-88 - Diagnostics Proficiency Assessment
2005-50 - NOW Technician(ISX, ISX CM870)
2002-56 - ISX-CM870 Engine Service Level (CVC B/N 4091820)
2001-27 - EGR Air Handling Familiarization

2005-02Q - QSK19 CM850 MCRS Engine Qualification

2005-51 - QSK19 CM850 MCRS Engine
2001-02 - INSITE - 6
2001-01 - B.E.T.T. (Virtual College)
2005-02Q - QSK19 CM850 MCRS Engine Qualification

2005-03Q - QSB4.5 & QSB6.7 Industrial Engine Qualification

2005-03Q - QSB4.5 & QSB6.7 Industrial Engine Qualification

2005-04Q - Aftertreatment

2005-04Q - Aftertreatment
2005-04Q - Aftertreatment

2005-06Q - Warranty - North American Dealer

2005-06Q - Warranty - North American Dealer
2005-53 - NA Dealer Warranty CD Training

2005-07Q - Warranty - North American Distributor

2005-07Q - Warranty - North American Distributor
2005-54 - NA Distributor Warranty CD Training