



**KEEP YOUR INVESTMENT RUNNING STRONG ...
OIL & GAS VIRTUAL INSTRUCTOR LED TRAINING**



VIRTUAL INSTRUCTOR LED TRAINING COURSES

Virtual Instructor Led Training (VILT) is delivered virtually by an instructor, simulating an in-class environment. It allows learners an opportunity to engage with other learners, ask questions and practice on use-case scenarios all in real time. In addition to the added value of cost savings, there's the logistical benefit - you can take the training wherever it suites your needs.

LET'S DO THE WORK.™

COURSE CATALOG

55966: GERP RUN LIVE

THE GAS ENGINE RATING PRO (GERP) RUN LIVE VIRTUAL LEARNING EVENT PROVIDES AN OPPORTUNITY FOR THE LEARNER TO PRACTICE, PRACTICE, PRACTICE ON FUEL DATA ANALYSIS BASED ON VARIOUS CASE SCENARIOS. YOU MUST HAVE ACCESS TO [HTTPS://GERP.CAT.COM](https://gerp.cat.com) AND FAMILIARIZATION WITH THE WEBAPP NAVIGATION AND USAGE OF GERP IN GENERAL.
COURSE LENGTH: 2 HOURS

55983: REMOTE FLEET VISION 2.0

ACCESS TO REMOTE FLEET VISION (RFV) 2.0 IS REQUIRED FOR THIS LEARNING EVENT. REQUEST YOUR ACCESS THROUGH CLIENT SERVICES AT OGCLIENTSERVICES@CAT.COM.

THE VIRTUAL LEARNING EVENT PROVIDES AN OPPORTUNITY TO FAMILIARIZE YOURSELF WITH THE RFV 2.0 USER INTERFACE. YOU WILL LEARN HOW TO NAVIGATE THE SITE AND BASICS OF THE DIFFERENT MODULES AVAILABLE.

COURSE LENGTH: 2.5 HOURS

55875: 3500E T4F WELL SERVICE/DRILLING - FUEL SYSTEM

THIS SESSION COVERS THE COMPONENTS AND OPERATION OF THE 3500E T4F COMMON RAIL FUEL SYSTEM. THE FOLLOWING COMPONENTS WILL BE DISCUSSED IN DETAIL:

LOW PRESSURE SYSTEM

- ELECTRIC PRIMING PUMP
- CLEAN FUEL MODULE
- FUEL TRANSFER PUMP
- STARTING PRIORITY VALVE
- PRESSURE REGULATOR VALVE
- SENSORS

HIGH PRESSURE SYSTEM

- HIGH PRESSURE FUEL PUMP
- FUEL CONTROL VALVE
- HIGH PRESSURE FUEL LINES
- ACCUMULATORS
- INJECTORS

COURSE LENGTH: 3 HOURS

55871: 3500E T4F WELL SERVICE/DRILLING - AFTERTREATMENT SYSTEM

THIS SESSION COVERS THE KEY COMPONENTS THAT MAKE UP THE 3500E T4F AFTERTREATMENT SYSTEM. THE FOLLOWING COMPONENTS WILL BE DISCUSSED IN DETAIL: EXHAUST RESTRICTION VALVE (ERV), EXHAUST GAS RECIRCULATION VALVE (ERG), VENTURI TUBE, ACTIVE HEAT SHIELD, ERG COOLERS, AND DIESEL OXIDATION CATALYST (DOC).

COURSE LENGTH: 2 HOURS

COURSE CATALOG (cont'd)

55876: 3500E T4F WELL SERVICE/DRILLING - DGB™ SYSTEM

THIS SESSION COVERS THE KEY COMPONENTS, OPERATION AND SOFTWARE STRATEGY USED FOR GAS ENABLEMENT. THE FOLLOWING COMPONENTS WILL BE DISCUSSED IN DETAIL: GAS SHUTOFF VALVE, PRESSURE REGULATOR, GAS RAIL, AND SOLENOID OPERATED GAS ADMISSION VALVES (SOGAVs), COMPRESSOR BYPASS VALVE, IN CYLINDER PRESSURE SENSOR (ICPS), AND OTHER SENSORS. IN ADDITION, THIS SESSION WILL DEEP DIVE INTO THE GAS BLENDING LOGIC SOFTWARE STRATEGY WHICH DETERMINES GAS ENABLEMENT, DISPLACEMENT MANAGEMENT, AND GAS DISABLEMENT.

COURSE LENGTH: 2 HOURS

55939: 3500E T4F WELL SERVICE/DRILLING - PERFORMANCE TROUBLESHOOTING

THIS IS A SCENARIO BASED LEARNING EVENT FOCUSED ON TROUBLESHOOTING FUEL AND AIR SYSTEM RELATED ISSUES. NEW ET AND FUNCTION TESTS WILL BE COVERED ALSO.

COURSE LENGTH: 2 HOURS

55989: G3600 CAN DATALINK TROUBLESHOOTING

THIS SESSION PROVIDES THE LEARNER WITH THE CAN BASIC CONCEPTS, GLOBAL AND LOCAL NETWORKS, AND TROUBLESHOOTING PROCEDURES FOR CAN FAULT USING DIFFERENT METHODS.

COURSE LENGTH: 3 HOURS

SPANISH AND ENGLISH LANGUAGE COURSES AVAILABLE

55987: G3600 SENSOR DIAGNOSTICS

THIS SESSION ALLOWS THE LEARNER TO GAIN KNOWLEDGE OF ALL TYPES OF SENSORS USED ON G3600 ENGINES (I.E. DETONATION SENSOR, NOX SENSOR, COMBUSTION SENSOR, AND SPEED/TIMING SENSORS), THEIR TYPES OF ELECTRONIC SIGNALS, AND TROUBLESHOOTING PROCEDURES FOR FMI 03, 04, AND 08 DIAGNOSTIC CODES.

COURSE LENGTH: 3 HOURS

56028: G3600 OUTPUT DEVICES - ELECTRONIC TROUBLESHOOTING

THIS SESSION ALLOWS THE LEARNER TO GAIN KNOWLEDGE OF ALL TYPES OF OUTPUT DEVICES USED ON G3600 ENGINES (I.E. WASTEGATE ACTUATOR, AIR CHOKE ACTUATOR, FUEL METERING VALVE) AND TROUBLESHOOTING PROCEDURES FOR FMI 05 AND 06 DIAGNOSTIC CODES.

COURSE LENGTH: 3 HOURS

SPANISH AND ENGLISH LANGUAGE COURSES AVAILABLE

COURSE CATALOG (cont'd)

55920: FAILURE ANALYSIS - METHODOLOGY

THIS IS A CASE STUDY FOCUS COVERING THE 8 STEPS USED WHEN ANALYZING FAILED PARTS/COMPONENTS

COURSE LENGTH: 2 HOURS

SPANISH AND ENGLISH LANGUAGE COURSES AVAILABLE

55924: FAILURE ANALYSIS - CONNECTING RODS

THIS IS A SCENARIO BASED LEARNING EVENT WHERE THE LEARNER WILL APPLY FAILURE ANALYSIS METHODOLOGY, WEAR FAILURE MODE, AND FRACTURE FAILURE MODES TO AN ENGINE CONNECTING RODS FAILED PARTS/COMPONENTS.

COURSE LENGTH: 2 HOURS

SPANISH AND ENGLISH LANGUAGE COURSES AVAILABLE

55927: FAILURE ANALYSIS - CRANKSHAFT

THIS IS A SCENARIO BASED LEARNING EVENT WHERE THE LEARNER WILL APPLY FAILURE ANALYSIS METHODOLOGY, WEAR FAILURE MODE, AND FRACTURE FAILURE MODES TO A FAILED ENGINE CRANKSHAFT.

COURSE LENGTH: 2 HOURS

SPANISH AND ENGLISH LANGUAGE COURSES AVAILABLE

55926: FAILURE ANALYSIS - ENGINE BEARINGS

THIS IS A SCENARIO BASED LEARNING EVENT WHERE THE LEARNER WILL APPLY FAILURE ANALYSIS METHODOLOGY, WEAR FAILURE MODE, AND FRACTURE FAILURE MODES TO FAILED ENGINE BEARINGS.

COURSE LENGTH: 2 HOURS

SPANISH AND ENGLISH LANGUAGE COURSES AVAILABLE

55923: FAILURE ANALYSIS - PISTON RING LINERS

THIS IS A SCENARIO BASED LEARNING EVENT WHERE THE LEARNER WILL APPLY FAILURE ANALYSIS METHODOLOGY, WEAR FAILURE MODE, AND FRACTURE FAILURE MODES TO AN ENGINE PRL FAILED PARTS/COMPONENTS.

COURSE LENGTH: 2 HOURS

SPANISH AND ENGLISH LANGUAGE COURSES AVAILABLE

55928: FAILURE ANALYSIS - THREADED FASTENERS

THIS IS A SCENARIO BASED LEARNING EVENT WHERE THE LEARNER WILL APPLY FAILURE ANALYSIS METHODOLOGY, WEAR FAILURE MODE, AND FRACTURE FAILURE MODES TO FAILED THREADED FASTENERS.

COURSE LENGTH: 2 HOURS

SPANISH AND ENGLISH LANGUAGE COURSES AVAILABLE

COURSE CATALOG (cont'd)

55925: FAILURE ANALYSIS - VALVES

THIS IS A SCENARIO BASED LEARNING EVENT WHERE THE LEARNER WILL APPLY FAILURE ANALYSIS METHODOLOGY, WEAR FAILURE MODE, AND FRACTURE FAILURE MODES TO FAILED ENGINE VALVES.

COURSE LENGTH: 2 HOURS

SPANISH AND ENGLISH LANGUAGE COURSES AVAILABLE

55921: FAILURE ANALYSIS - WEAR FAILURE MODE

THIS IS A CASE STUDY FOCUS IN APPLYING THE 7 TYPES OF WEAR.

COURSE LENGTH: 2 HOURS

SPANISH AND ENGLISH LANGUAGE COURSES AVAILABLE

55922: FAILURE ANALYSIS - FRACTURE FAILURE MODE

THIS IS A SCENARIO BASED LEARNING EVENT FOCUSED ON THE THREE (3) TYPES OF FRACTURE FAILURE MODES.

COURSE LENGTH: 2 HOURS

SPANISH AND ENGLISH LANGUAGE COURSES AVAILABLE

55991: WELL SERVICE & PRESSURE PUMPING - SERVICE TOOLS

THIS SESSION PROVIDES THE LEARNER THE OPPORTUNITY TO PRACTICE, PRACTICE, PRACTICE ON USING CAT SERVICE TOOLS TO DIAGNOSE ELECTRICAL AND ELECTRONIC COMPONENTS AS IT RELATES TO THE CAT® PRESSURE PUMPING APPLICATION.

TOOLS COVERED ARE:

- DIGITAL MULTIMETER
- CAT ET
- SISWEB 2.0
- ELECTRICAL SCHEMATICS

COURSE LENGTH: 2 HOURS

55990: WELL SERVICE & PRESSURE PUMPING - SENSOR DIAGNOSTICS

THIS SESSION PROVIDES THE LEARNER WITH THE INFORMATION REQUIRED TO PROPERLY DIAGNOSE SENSORS IN CAT PRESSURE PUMPING SEGMENTS. THIS INCLUDES BOTH THE 3500 AND TH48/TH55 PRODUCTS.

COURSE LENGTH: 2 HOURS

COURSE SCHEDULE AND COST AVAILABLE THROUGH DPC OR BY CONTACTING YOUR LOCAL DEALER REPRESENTATIVE.

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