

FOLEY CUSTOMER TECHNICIAN TRAINING

For more information or to enroll in a class, please email **Kim Sturkey** at KSturkey@foleyinc.com or call **(215) 639-4300**.

Enrollment deadline is 5 business days prior to the first day of class.

FOLEY

**** Classes are taught by certified instructors with many years of industry experience ****

CLASS TITLE	COURSE DESCRIPTION	DATE	PRICE
Pilot & Electro-Hydraulic Systems	All the new Caterpillar equipment designed today utilize hydraulic control systems that are controlled either by Pilot or Electro-hydraulic controls. These systems provide flexibility by allowing the main control valve to be remotely located, which saves space. They also provide more precise control on machine implements and allow for higher main hydraulic system pressures, all while lowering operator effort and fuel cost	July 30, 31 7:00am-3:30pm Location Monroe	\$1,200 / PERSON
Starting & Charging Systems	This Course is designed for the novice thru experienced tech. Over the two days we will cover in detail how caterpillar starting systems and charging systems operate and are troubleshot.	Aug 25,26 7:00am-3:30pm Location Monroe	\$1,200 / PERSON
Preventative Maintenance and Inspection	This course focuses on the principles and practices of machine and engine preventive maintenance (PM). Participants will learn how to maintain equipment reliability, reduce downtime, and extend component life through systematic PM procedures.	September 1,2 7:00am-3:30pm Location Monroe	\$1,200 / PERSON
LSPC & PPPC Hydraulic Systems	Load Sensing / Pressure Compensation and Proportional Priority Pressure Compensation is a hands-on course, which objective is to take what is learned in Basic Hydraulics and put it into practical application. These hydraulic systems are found in many CAT machines. A small portion of this course is dedicated to theory of operation and the remainder is hands-on labs that cover hydraulic Safety, T&A procedures, and troubleshooting.	October 27,28 7:00am-3:30pm Location Monroe	\$1,200 / PERSON

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CLASS TITLE	COURSE DESCRIPTION	DATE	PRICE
Engine Fundamentals and System Operations	This course is designed to provide participants with a solid foundation in Caterpillar (Cat) diesel engine technology. The course focuses on developing both theoretical knowledge and practical skills necessary for working with Cat engines in real-world applications.	October 6, 7 7:00am-3:30pm Location Monroe	\$1,200 / PERSON
Electrical & Electronics	This course is designed for Tech looking to learn entry level Electrical theory and knowledge. We will go over Ohms/ Kirchoffs Law as well as go over how voltage drops effect a circuit. Lastly, we will talk about different troubleshooting methods used to diagnose a electrical fault.	November 3,4 7:00am-3:30pm Location Monroe	\$1,200 / PERSON
Basic Hydraulic Principles	This course is designed for the novice technician. We will be discussing the principles of hydrodynamics and hydrostatics in relation to four key physical properties of a fluid and Pascal's Law. Participants will learn the basic layout of a hydraulic circuit, graphic symbols and the function of fluid reservoirs and hoses, basic pumps and motors, different style controls valve and their operation, various cylinder designs and actuators as well as a detailed description of the various protection devices used in today's systems.	December 1,2 7:00am - 3:30pm Location Monroe	\$1,200 / PERSON

Electrical & Electronics



This course is designed to help the technician become a more effective troubleshooter. The ability to quickly isolate machine problems help to reduce downtime and repair costs. Caterpillar products generally consist of the following major systems: power train, hydraulic, electrical, and monitoring. Diagnosing a problem between the systems can sometimes be overwhelming. This cover teaches how to use a logical troubleshooting process to determine the root cause.

Course Objectives:

After completion of this course, the participant will be able to:

- Understand the relationship between current resistance and volts
- Learn how to properly use voltage drop testing when troubleshooting
- understand the logic cat uses for electrical faults and event codes

Prerequisite:

- Technicians must be ready to work, with proper PPE.

PRICE: \$1,200 / PERSON

Date: November 3 - 4
7:00 AM – 3:30 PM

LOCATION: Monroe NJ,

DURATION: 2 DAYS

Cancellation Policy:

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Starting & Charging Systems



This class is intended for the service personnel looking to gain a better understanding in caterpillar starting and charging systems as well as understand how to troubleshoot starters and alternators.

Course Objectives:

After completion of this course, the participant will be able to:

- Understand Flow through a starting/charging system
- Troubleshoot starters
- Troubleshoot Alternators

Prerequisite:

- Technicians must be ready to work, with proper PPE.

PRICE: \$1,200 / PERSON

Date: August 25 -26
7:00 AM – 3:30 PM

LOCATION: Monroe NJ,

DURATION: 2 DAYS

Cancellation Policy:

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Preventative Maintenance and Inspection



This course focuses on the principles and practices of machine and engine preventive maintenance (PM). Participants will learn how to maintain equipment reliability, reduce downtime, and extend component life through systematic PM procedures.

Course Objectives:

After completion of this course, the participant will be able to:

- Understand the importance of preventive maintenance in maximizing machine and engine performance. Interpret and apply ISO safety symbols and standards during maintenance activities.
- Utilize PM literature and documentation to plan and execute maintenance tasks effectively. Perform essential PM tasks, including inspections, lubrication, and adjustments.
- Explain and implement Caterpillar's S•O•S (Scheduled Oil Sampling) program for fluid analysis and condition monitoring.

Prerequisite:

- Technicians must be ready to work, with proper PPE.

PRICE: \$1,200 / PERSON

Date: September 1 - 2
7:00 AM – 3:30 PM

LOCATION: Monroe NJ,

DURATION: 2 DAYS

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Engine Fundamentals and System Operations



This course is designed to provide participants with a solid foundation in Caterpillar (Cat) diesel engine technology. The course focuses on developing both theoretical knowledge and practical skills necessary for working with Cat engines in real-world applications.

Course Objectives:

After completion of this course, the participant will be able to:

- Understand the fundamental principles and operating characteristics of Cat diesel engines.
- Identify and explain the function of major engine components and systems.
- Perform thorough visual inspections to assess engine condition and detect potential issues.
- Safely remove and install key engine components using industry-standard tools and procedures.
- Apply best practices for maintaining engine reliability and performance.

Prerequisite:

- Technicians must be ready to work, with proper PPE.

PRICE: \$1,200 / PERSON

Date: October 6 - 7
7:00 AM – 3:30 PM

LOCATION: Monroe NJ,

DURATION: 2 DAYS

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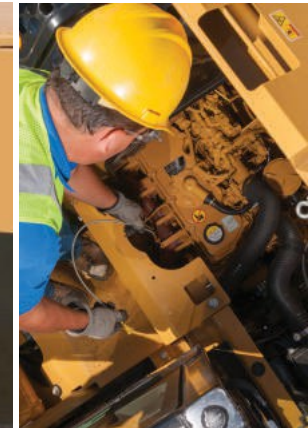
Enrollment deadline is 5 business days prior to the first day of class.

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Basic Hydraulic Principles



This course is designed for the novice technician. Class materials will cover the basic use of caterpillar Electronic Technician to diagnose equipment and engine problems. Also, we will cover SIS to go over how to look up parts and service information.

Course Objectives:

After completion of this course, the participant will be able to:

- State the four key physical properties of fluid.
- State Pascal's Law and how hydraulic force can create a mechanical advantage
- Explain basic principles of flow and pressure, energy transfer, work and power
- Describe series and parallel hydraulic circuits and pressure drops
- Trace oil flow through ISO hydraulic schematics
- Identify and explain the operation of the basic hydraulic circuit components

Prerequisite:

- Technicians must be ready to work, with proper PPE.

PRICE: \$1,200 / PERSON

Date: December 1 - 2
7:00 AM – 3:30 PM

LOCATION: Monroe NJ,

DURATION: 2 DAYS

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Pilot & Eletro-Hydraulic Systems



All the new Caterpillar equipment designed today utilize hydraulic control systems that are controlled either by Pilot or Electro-hydraulic controls. These systems provide flexibility by allowing the main control valve to be remotely located, which saves space. They also provide more precise control on machine implements and allow for higher main hydraulic system pressures, all while lowering operator effort and fuel cost.

Course Objectives:

After completion of this course, the participant will be able to:

- Identify the major components of both Pilot and Electro-hydraulic controls
- Discuss the operation of both Pilot and Electro-hydraulic controls
- Discuss the application, differences and benefits to both systems
- Demonstrate proper test and adjusting procedures for pilot systems
- Demonstrate calibrate and test for eletro-hydraulic systems
- Understand EH Diagnostic codes and know the resources to use to repair them

Prerequisite:

- Technicians must be ready to work, with proper PPE.

PRICE: \$1,200 / PERSON

Date: July 30 - 31
7:00 AM – 3:30 PM

LOCATION: Monroe NJ,

DURATION: 2 DAYS

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LSPC & PPPC Hydraulic Systems



Load Sensing / Pressure Compensation (LS/PC) and Proportional Priority Pressure Compensation (PPPC) is a hands-on course, which objective is to take the fundamentals learned in Basic Hydraulics and put it into practical application. LS/PC and PPPC hydraulic systems are found in many CAT machine like Skid Steers, Telehandlers, Backhoes, Track Loader, and Wheel loader. A small portion of this course is classroom discussion on theory of operation. The majority.

Course Objectives:

After completion of this course, the participant will be able to:

- Discuss the function and benefits of LS/PC versus PPPC system
- Demonstrate LS/PC and PPPC system hydraulic system operation
- Diagnose LS/PC and PPPC hydraulic system faults
- Calibrate, test and adjust the hydrostatic system

Prerequisite:

- Technicians must be ready to work, with proper PPE.

PRICE: \$1,200 / PERSON

Date: October 27 - 28
7:00 AM – 3:30 PM

LOCATION: Monroe NJ,

DURATION: 2 DAYS

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