

# FOLEY CUSTOMER TECHNICIAN TRAINING

For more information or to enroll in a class, please email Kim Sturkey at [KSturkey@foleyinc.com](mailto: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
<b>TIER 4 EMISSIONS SYSTEMS TECHNOLOGY INTRODUCTION AND DIAGNOSTICS</b>	The Tier 4 Emissions Systems Technology Introduction and Diagnostics course is intended for customer service technicians. This course focuses on Cat solutions to meet EPA Tier 4 Final nonroad diesel engine emissions regulations. The engines to be covered are: C7.1, C9.3 and C13. This course provides advanced systems operation information with an emphasis on hands-on diagnostic test. Topics include the air systems, aftertreatment, fuel systems, selective catalytic reduction, and the operator interface. We will be using Electronic Technician to perform the diagnostic tests.	<b>March 5,6</b> 7:00 AM – 3:30 PM Location Monroe NJ DURATION: 2 DAYS	\$1,200 / PERSON
<b>BASIC HYDRAULIC PRINCIPLES</b>	<p>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.</p> <p>Hands on will ensure each student has the opportunity to perform proper testing and adjusting procedures on an actual hydraulic system currently used on various new equipment.</p>	<b>June 23,24</b> 7:00 AM – 3:30 PM Location Monroe Nj DURATION: 2 DAYS	\$1,200 / PERSON
<b>SIS/ET</b>	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 infirmation.	<b>Feb 3,4 April 1,2</b> 7:00 AM – 3:30 PM Location Monroe NJ DURATION: 2 DAYS	\$1,200 / PERSON
<b>Electronics</b>	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 circuits. Lastly we will talk about different troubleshooting methods used to diagnose a electrical fault.	<b>March 3,4 June 2,3</b> 7:00 AM – 3:30 PM Location Monroe NJ DURATION: 2 DAYS	\$1,200 / PERSON

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CLASS TITLE	COURSE DESCRIPTION	DATE	PRICE
<b>Preventative Maintenance and Inspection</b>	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.	<b>March 30,31 May 26,27</b> 7:00 AM – 3:30 PM Location Monroe NJ DURATION: 2 DAYS	\$1,200 / PERSON
<b>Engine Fundamentals and System Operations</b>	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.	<b>February 24, 25 April 21, 22 June 30, July 1</b> 7:00 AM – 3:30 PM Location Monroe Nj DURATION: 2 DAYS	\$1,200 / PERSON

# TIER 4 EMISSIONS SYSTEMS TECHNOLOGY INTRODUCTION AND DIAGNOSTICS



The Tier 4 Emissions Systems Technology Introduction and Diagnostics course is intended for customer service technicians. This course focuses on Cat solutions to meet EPA Tier 4 Final nonroad diesel engine emissions regulations. The engines to be covered are: C7.1, C9.3 and C13. This course provides advanced systems operation information with an emphasis on hands-on diagnostic test. Topics include the air systems, aftertreatment, fuel systems, selective catalytic reduction, and the operator interface. We will be using Electronic Technician to perform the diagnostic tests.

## Course Objectives:

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

- Navigate SIS Web and demonstrate use of selected service publications
- Identify the functionality and perform selected operations within Cat ET
- Summarize the function various NOX Reduction Systems, Regeneration, Fuel and SCR Systems
- Describe DEF composition, safety concerns, storage requirements, and perform a DEF concentration test
- Describe the function of the operator warning system and explain the Operator inducement strategy

## Prerequisite:

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

**DATES:** March 5,6

**PRICE:** \$1,200 / PERSON

7:00 AM – 3:30 PM LOCATION: Monroe NJ 2  
DAYS

## Cancellation Policy:

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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 a 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.

**Dates: June 23, 24**

7:00 AM – 3:30 PM

LOCATION: Monroe

NJ DURATION: 2  
DAYS

**PRICE:** \$1,200 / PERSON

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# SIS/ET



This course is designed for the novice technician. Class materials will cover basic electrical principles and fundamentals, circuit construction, different connector types and servicing procedures, explanation of the proper use of a DVOM, as well as a detailed description of Caterpillar electrical schematics.

Hands on will ensure each student has the opportunity to perform proper testing and adjusting procedures on an actual electrical system currently used on various new equipment.

## Course Objectives:

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

- Use Et to help troubleshoot faults in engines and equipment
- Properly connect and use a cat com adapter
- troubleshoot connection issues
- use SIS too look up parts numbers and diagrams
- use SIS to look up troubleshooting and testing manuals

## Prerequisite:

- Technicians must be ready to work, with proper PPE.
- **Feb 3,4 April 1,2**

**PRICE:** \$1,200 / PERSON

7:00 AM – 3:30 PM  
LOCATION: Monroe NJ  
DURATION: 2 DAYS

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# Electronics



This course is designed to help the technician become a more effective troubleshooter. The ability to quickly isolate machine problems helps to reduce down-time and repair cost. Caterpillar products generally consist of the following major systems: power train, hydraulic, electrical, and monitoring. To diagnose 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 fault and event codes

## Prerequisite:

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

**PRICE:** \$1,200 / PERSON

**March 3,4 June 2,3**

7:00 AM – 3:30 PM Monroe NJ, DURATION: 2 DAYS

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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

**March 30,31 May 26,27**

7:00 AM – 3:30 PM Monroe NJ, DURATION: 2  
DAYS

## Cancellation Policy:

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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

**February 24, 25 April 21, 22  
June 30, July 1**

**7:00 AM – 3:30 PM Monroe NJ, DURATION: 2  
DAYS**

## Cancellation Policy:

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