

Only \$550 per day
 \$1100 for 2 Days (1.6 CEUs)
 \$2200 for 4 Days (3.2 CEUs)

Please help our logistics team and register early.

Cancel up to 14 days in advance without penalty*.

Promo Code: X05

Maintenance Fundamentals

GMTE-AX

Learn the essential skills that apply to all maintenance tasks. Choose a 4-day workshop or 2-day seminars.

Learn About:

- Electrical and Mechanical Safety
- Using Personal Protective Equipment
- Lockout/Tagout Procedures
- AC vs. DC
- Electric Motor Basics
- Reading Schematics
- HVAC Fundamentals
- Pumps, Blowers, and Fans
- Proven Troubleshooting Methodologies
- Reducing Part Replacement



Maintenance Fundamentals 4-Day Workshop - \$2200

This 4-day workshop combines our 2-day 'Introduction to General Maintenance' and 'Troubleshooting Essentials' seminars

ST.	CITY	DATE	ST.	CITY	DATE
AK	Anchorage	Dec 10-13 '18	NH	Manchester	Jan 14-17 '19
CA	Orange County	Dec 3-6 '18	NV	Las Vegas	Dec 3-6 '18
CA	San Jose	Jan 21-24 '19	NY	Albany	Feb 18-21 '19
FL	Tampa	Oct 22-25 '18	NY	Syracuse	Jan 7-10 '19
IL	Naperville	Nov 26-29 '18	OH	Cleveland	Oct 29-Nov 1 '18
MD	Baltimore	Oct 29-Nov 1 '18	TN	Nashville	Nov 26-29 '18
MI	Ann Arbor	Dec 17-20 '18	UT	Salt Lake City	Oct 22-25 '18
MI	Grand Rapids	Jan 28-31 '19	WA	Seattle	Jan 28-31 '19
MO	St. Louis	Oct 22-25 '18			

Don't see a date/location that works? Join a live classroom from anywhere with our simulcast option. Dates include:
 Nov 26-29 '18

Introduction to General Maintenance 2-Day Seminar - \$1100

ST.	CITY	DATE	ST.	CITY	DATE
AK	Anchorage	Dec 10-11 '18	NH	Manchester	Jan 14-15 '19
CA	Orange County	Dec 3-4 '18	NV	Las Vegas	Dec 3-4 '18
CA	San Jose	Jan 21-22 '19	NY	Albany	Feb 18-19 '19
FL	Tampa	Oct 22-23 '18	NY	Syracuse	Jan 7-8 '19
IL	Naperville	Nov 26-27 '18	OH	Cleveland	Oct 29-30 '18
MD	Baltimore	Oct 29-30 '18	TN	Nashville	Nov 26-27 '18
MI	Ann Arbor	Dec 17-18 '18	UT	Salt Lake City	Oct 22-23 '18
MI	Grand Rapids	Jan 28-29 '19	WA	Seattle	Jan 28-29 '19
MO	St. Louis	Oct 22-23 '18			

Don't see a date/location that works? Join a live classroom from anywhere with our simulcast option. Dates include:
 Nov 26-27 '18

Troubleshooting Essentials 2-Day Seminar - \$1100

ST.	CITY	DATE	ST.	CITY	DATE
AK	Anchorage	Dec 12-13 '18	NH	Manchester	Jan 16-17 '19
CA	Orange County	Dec 5-6 '18	NV	Las Vegas	Dec 5-6 '18
CA	San Jose	Jan 23-24 '19	NY	Albany	Feb 20-21 '19
FL	Tampa	Oct 24-25 '18	NY	Syracuse	Jan 9-10 '19
IL	Naperville	Nov 28-29 '18	OH	Cleveland	Oct 31-Nov 1 '18
MD	Baltimore	Oct 31-Nov 1 '18	TN	Nashville	Nov 28-29 '18
MI	Ann Arbor	Dec 19-20 '18	UT	Salt Lake City	Oct 24-25 '18
MI	Grand Rapids	Jan 30-31 '19	WA	Seattle	Jan 30-31 '19
MO	St. Louis	Oct 24-25 '18			

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Maintenance Fundamentals

Introduction to General Maintenance

This two-day course – offered for the first time and on a limited basis in 2018 – is designed to meet the essential needs of every maintenance technician in every type of facility. It is the first course of its kind to cover the fundamentals of electrical, HVAC, and mechanical maintenance tasks in a single two-day seminar, along with the basic safety skills that every worker needs.

This is an ideal starter course for new hires as well as experienced technicians who made need a refresher, and an excellent base for the more in-depth training we offer in our electrical, HVAC, and mechanical categories. Combine it with our new Troubleshooting Essentials for a 4-day workshop that will put your facility on a path to better safety and productivity.

Discussion Topics

Basic Safety Skills:

- Electrical Safety in the workplace: 2018 NFPA 70E®, OSHA
- When and how to select Personal Protective Equipment (PPE)
- Lockout/tagout (LOTO)
- Multimeter Selection and Safety
- Electricity Fundamentals (Voltage, Current, and Resistance)
- AC vs. DC and their Applications
- Single Phase vs. Three Phase
- Transformers and Electrical Distribution
- Select and Replace Switches and Receptacles
- General Wiring Techniques
- Checking and Replacing Fuses
- When and Where should GFCI's be Used
- Replacing Light Fixtures/Ballast or Replace with LEDs
- Electric Motor Basics and Troubleshooting
- Reading Electrical Schematics Fundamentals
- Preventative Maintenance Best Practices

Basic Mechanical, HVAC, and Safety Skills:

- Mechanical Safety in the Workplace
- Working with hand tools
- Ladder Safety
- Chemical Handling safety
- Proper Lifting Techniques
- HVAC System Fundamentals
- Bearing Fundamentals, Types, Installation, and Applications
- Lubrication

- V-Belt Types, Alignment, and Proper Tensioning Procedures
- Basics of Pumps, Blowers, and Fans
- Fire Extinguisher Use and Inspection

Troubleshooting Essentials

Troubleshooting is at the core of plant and facility maintenance, and the core principles and practices of troubleshooting apply to nearly any maintenance task, from electrical to HVAC to pumps and motors. This highly versatile 2-day course, suitable for any maintenance role, provides the building blocks to apply a consistent troubleshooting methodology to any common equipment problem.

Students who complete the course will be equipped with techniques they can put into practice immediately to reduce downtime in their facility. When combined with our General Maintenance class in a 4-day Maintenance Fundamentals Workshop, this course delivers a complete foundation for successful facilities.

Discussion Topics

Developing a Logical and Systematic Troubleshooting Approach

- The proper steps to troubleshoot any problem
- Developing the problem statement
- Proper brainstorming methods
- Verifying the cause
- Selecting the fix
- Working with machine operators / asking questions
- Using data available to quickly find problems
- Teamwork troubleshooting approach
- Properly using test equipment to diagnose problems
- Using your senses / observations to rule out possibilities
- Adapting troubleshooting to any piece of equipment or application
- Troubleshooting by job title

Interactive classroom troubleshooting activities and role-playing

- Description of situation
- Class discussion of potential problems
- Teamwork-based in-class brainstorming sessions
- Instructor-guided troubleshooting process to lead to a solution
- Discussing the best/most time efficient alternatives to solving a problem
- Problems range from mechanical to electrical to customized problems based on the needs of the class
- Scenarios based on the attendee's unique

issues in the workplace

- Exploring the root cause of the problem
- Preventing the problem from re-occurring through proper documentation and follow-up

"More covered in two days than I thought possible."

Michael F – Maintenance Technician

Training Philosophy

Our training is designed with practical, real-world facility and industrial applications in mind. It is unbiased, unaffiliated and non-commercial so you are assured of a real education and not a product sales pitch. It focuses less on theory and more on the actual steps students need to properly maintain equipment or fix specific problems at their own plant or facility. We have over 200,000 hours of experience of live classroom training using these methods, and it is why our students keep coming back.

About Our Instructors

Our team of 60 field-experienced instructors is the backbone of our training seminar schedule. All of our instructors must meet three core requirements: 1) Relevant formal education in the seminar topic area, 2) documented hands-on work experience in their area, and 3) specific experience as a maintenance training instructor.

*No Risk Registration & Money Back Guarantee

Not sure whether you or your employees will be able to attend an upcoming seminar? You can reserve your space in the class at any time and cancel without penalty. Cancellations made more than 14 days prior to the seminar may be refunded or rescheduled. Cancellations made within 14 days may be rescheduled for any future topic and/or date. If you're not satisfied with the course, we'll promptly refund your payment.

On-Site Training

TPC Training conducts hundreds of on-site trainings at customer facilities each year. Every public seminar class in our Course Catalog can be conducted on-site, with the same expert instructors. To arrange an on-site training, email us at onsite@tpctraining.com.

To be removed from future mailings, please mail or fax your addressed envelope or postcard along with the mailing promotion code and removal note to: TPC Training, P.O. Box 3397, Englewood CO, 80155. Fax: 303-531-4565.

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