

Manufacturing Mastering Troubleshooting

Excellence: Equipment

written by Lauri Moon | October 2, 2025



Mastering Equipment Troubleshooting

(3-day, in-person)

This program starts in:



This intensive, interactive program provides participants with skills, methods, and confidence to systematically identify, diagnose, and resolve equipment problems. Using real-world examples and shop-floor exercises, the training builds troubleshooting capability that minimizes downtime, improves equipment reliability, and increases productivity.

Register now for only \$1,295 per person!

[Register](#)

Learning Objectives

By the end of the training, participants will be able to:

- Apply a **structured troubleshooting methodology** to equipment issues.
- **Identify root causes** of mechanical, electrical, pneumatic, and hydraulic problems.
- Use **diagnostic tools and job aids** effectively.
- **Document** and **communicate** troubleshooting steps and outcomes.
- Strengthen **cross-functional teamwork** between operators, maintenance, and engineering.
- **Reduce** unplanned **downtime** through proactive problem-solving.

Course Outline

Day 1 - Foundations of Troubleshooting

- Introduction to Equipment Troubleshooting
 - Purpose and benefits of structured troubleshooting
 - Link to TPM, OEE, and reliability goals
- Systematic Troubleshooting Process
 - Define the problem clearly
 - Safety considerations before troubleshooting
 - Understanding sequences of operations
 - Isolating vs. identifying root cause
- Tools and Techniques Overview
 - Visual inspection, sensory checks
 - Use of checklists, logs, and job aids
 - Communication between operators and technicians
- Troubleshooting Workshop 1

- Basic troubleshooting exercises (mechanical focus)

Day 2 - Diagnostic Skills Development

- Mechanical Systems Troubleshooting
 - Common failure modes (bearings, belts, gears, lubrication issues)
 - Case study and interactive exercise
- Electrical Systems Troubleshooting
 - Basics of electrical safety and lockout/tagout (LOTO)
 - Common electrical faults (circuits, fuses, sensors, wiring)
 - Fundamental electrical testing procedures
- Pneumatic & Hydraulic Systems
 - Recognizing leaks, pressure losses, and actuator failures
 - Practical lab exercise with simulated faults
- Team-Based Problem-Solving Exercise
 - Group challenge troubleshooting simulations

Day 3 - Application and Continuous Improvement

- Root Cause Analysis in Troubleshooting
 - 5 Whys, fishbone diagrams, and fault tree analysis
 - Documenting findings for prevention
- Integrating Troubleshooting into TPM
 - Operator involvement and autonomous maintenance
 - Standardizing troubleshooting steps and checklists
- Troubleshooting Workshop 2
 - Basic troubleshooting scenarios (electrical focus)
- Measuring Success
 - Linking troubleshooting performance to OEE and downtime metrics
 - Establishing KPIs for ongoing improvement
- Action Planning & Closing Discussion
 - Participant action steps for applying skills on the job
 - Q&A, lessons learned, and next steps

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Who Should Attend

This program is ideal for machine operators, technicians, maintenance staff, supervisors, and engineers.

Meet Your Instructor



Larry Bouvier, CRL, CMRP

Vice President, Fuss & O'Neill Manufacturing Solutions, LLC

Larry Bouvier is a dynamic and hands-on leader in plant engineering and maintenance with over 14 years as Vice President at Fuss & O'Neill Manufacturing Solutions. With certifications in reliability (CRL) and maintenance (CMRP), Larry brings decades of experience mentoring and training manufacturers to improve workplace safety, asset performance, and operational excellence. He specializes in world-class asset management, TPM, RCM, CMMS implementation, and maintenance optimization. Through his practical, shop-floor approach, Larry helps clients build sustainable culture change and long-term value across their operations.



This program is WEDnetPA eligible.

Fundamentals of Maintenance Management - Altoona

written by Lauri Moon | October 2, 2025



Fundamentals of Maintenance Management

(2-hour, in-person, Altoona, PA)

This program starts in:



In manufacturing environments, the effectiveness of your maintenance program directly impacts safety, quality, and production output. Yet, many organizations still rely heavily on reactive approaches—responding only when equipment fails. This reactive model is not only inefficient but expensive, often costing 5 to 10 times more than planned maintenance efforts.

This two-hour, in-person workshop explores the essential building blocks of a proactive maintenance strategy. Participants will learn how to implement preventive and predictive maintenance (PM/PdM), reduce costly unplanned downtime, and improve asset reliability. Whether you're developing a maintenance program from the ground up or fine-tuning an existing one, this session will provide practical insights and foundational tools to support long-term operational excellence.

Why It Matters

- 90% of typical maintenance work is reactive, leading to higher costs and production delays.
- Preventative maintenance extends equipment life and postpones major capital expenditures.
- Maintenance management is not just a support function—it's a mission-critical investment in uptime, safety, and performance.

[**Register**](#)

Register now for this free, in-person event!

Workshop Topics:

1. Introduction to Maintenance Excellence
2. Fundamentals of Maintenance Management
3. Preventive vs. Predictive Maintenance (PM & PdM)
4. Maintenance Planning and Scheduling

5. Root Cause Analysis (RCA) in Maintenance
6. Methodical Troubleshooting

Learning Objectives:

- Understand the cost implications of reactive vs. proactive maintenance.
- Learn how to build or improve a preventive and predictive maintenance strategy.
- Exposure tools for effective planning, scheduling, and work prioritization.

Who should attend?

Engineering Managers, Maintenance Managers, Plant Managers, Maintenance Supervisors and Technicians, Reliability Engineers, and anyone responsible for asset uptime, performance, and maintenance strategy.

Instructor:



Larry Bouvier, CRL, CMRP

Vice President, Fuss & O'Neill Manufacturing Solutions, LLC

Larry Bouvier is a dynamic and hands-on leader in plant engineering and maintenance with over 14 years as Vice President at Fuss & O'Neill Manufacturing Solutions. With certifications in reliability (CRL) and maintenance (CMRP), Larry brings decades of experience mentoring and training manufacturers to improve workplace safety, asset performance, and operational excellence. He specializes in world-class asset management, TPM, RCM, CMMS implementation, and maintenance optimization. Through his practical, shop-floor approach, Larry helps clients build sustainable culture change and long-term value across their operations.



This program may be WEDnetPA eligible!

Webinar: How to Stretch the Life of Your Machines

written by Lauri Moon | October 2, 2025

Assets are the lifeblood of a manufacturer's organization, which is why making them last and making smart data-driven decisions on when to replace them can make the difference between a profitable organization and one that's in need of improvement. In this webinar, Paul Lachance, Senior Manufacturing Advisor at Dude Solutions, will share a variety of key performance indicators and metrics that you can monitor to enable you to intelligently stretch your assets and more. Find out how you can use your asset lifecycle and other key data points to be more efficient at:

- Increasing uptime
- Accurately justifying repair vs. replace decisions
- Analyzing your equipment for actionable data
- Justifying your budget
- Increasing productivity

Speaker

 **Paul Lachance, Senior Manufacturing Advisor, Dude Solutions**

Paul Lachance has spent his entire career devoted to optimizing maintenance teams by enabling data-driven decisions and actionable insights. He wrote his first CMMS system in 2004 and has since spent his professional career designing and directing CMMS and EAM systems. A regular speaker at national tradeshow, he's been featured at IMTS, Fabtech and SMRP as well as several industry magazines. He currently serves as the Senior Manufacturing Advisor for Dude Solutions.



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