



Introduction to Pyrometry



PRI's Pyrometry course is a two-day review and comprehensive discussion of the SAE AMS 2750D specification and how to apply the requirements at your company.

Participants will:

- Achieve a thorough understanding of pyrometric controls applicable to heat treating
- Discuss the application of pyrometric controls within the typical heat treat facility
- Receive clarification on the intent and interpretation of SAE AMS 2750D



“I would recommend this training to anyone who uses AMS2750D in their operations.”

David Smith,
Rolls Royce plc



Topics

- Temperature Sensors – selection, application, verification
- Instrumentation – types, when to use, calibration, records
- Furnace classification
- System Accuracy Tests
 - Requirements and Procedures
 - Conducting and Calculating results
 - What is acceptable and when is action required?
 - How often to perform an SAT and reduced frequency
 - SAT waivers
 - Records/reports
- Temperature Uniformity Surveys (TUS's)
 - Requirements and Procedures
 - Performing and using results
 - TUS failures
 - Use of offsets
 - When is a TUS required?
 - TUS report

More Information

For current dates, locations and pricing, please contact us

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Europe: + 44 (0) 870 350 5011

Asia (China): + 86 10 6461 9807

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Internal Auditing



PRI's Internal Auditing course is designed to meet the needs of the Internal Audit Manager and Internal Auditor. This course is an interactive and dynamic approach to developing and implementing an internal audit plan.

After attending the course, participants will be able to;

- prepare an Internal Audit plan
- select employees to be qualified auditors
- conduct effective internal audits
- design the internal audit program as an effective continual improvement tool



“The instructors, seminar material, and the experience and knowledge I gained were excellent.”

Dieter Frentzen,
Goodrich Control
Systems GmbH



Day One - Plan The Audit

- Utilizing your internal audit program as a continual improvement tool
- Selecting, training and recognizing auditors
- Developing your audit scope and determining the processes and procedures to audit
- Obtaining and keeping management support

Day Two - Perform The Audit

- Practicing with tools and techniques for gathering information
- Preparing for the audit
- Conducting the audit; opening meeting, interviewing, and investigating
- Evaluating objective evidence
- Writing clear and concise findings
- Communicating audit results
- Closing the audit; evaluating corrective actions and verifying effectiveness

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RCCA

Root Cause and Corrective Action



PRI's Root Cause Corrective Action (RCCA) course is a one-day program designed to teach participants how to analyze problems and determine long-term solutions.

After attending the course, participants will be able to;

- properly identify true problems
- collect effective and relevant data
- understand how to develop a cause chain that leads to determination of root cause/s
- implement effective preventative corrective actions that will permanently eliminate root cause/s and lead to continuous improvement



“My only regret is that I wish I would have attended this class sooner!”

Jan Schiltz,
Quality Manager AADFW, Inc.



Course Topics

- **Problem Identification and Data Collection**
A critical component to finding the TRUE root cause of any problem is investigation. You will learn to evaluate all of the relevant facts and to not be dissuaded by unrelated information
- **Focus on the facts - Direct, Contributing and Root Cause**
Learn the importance of removing personal bias to ensure all causes and potential areas of prevention are fully evaluated
- **Determining Corrective Actions**
Recognize the difference between immediate and preventive corrective actions
- **Implementation and Evaluation**
Implement solutions and learn to evaluate effectiveness to prevent recurrence and ensure continual improvement

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Heat Treating for the Automotive Special Processor



To meet CQI-9 compliance, automotive manufacturers must comply with the pyrometry specifications of AMS 2750D. eQuaLearn's Heat Treating for the Automotive Special Processor course is a two-day review and comprehensive discussion of the SAE AMS2750D and CQI-9. This course is designed to help automotive special processors understand the requirements to ensure complete compliance.

A two-day review and comprehensive discussion of the SAE AMS2750D and CQI-9



Participants will:

- Investigate tools to conduct pyrometry in the context of automotive heat treating
- Obtain clarification on the interpretation and intent of CQI-9 and AMS 2750D
- Achieve basic knowledge of atmosphere control
- Understand how to conduct effective Job Audits
- Learn useful best practices and opportunities for continuous improvement





Topics include:

- CQI-9 Review
 - Requirements
 - Process Details
- Pyrometry / AMS 2750D
 - Sensors and Instrumentation
 - Calibration - System Accuracy Tests (SAT)
 - Temperature Uniformity Surveys (TUS)
 - Variations for CQI-9
 - Infrared Pyrometry
 - Subcontracting Pyrometry
- Atmosphere Control
- Job Audits
 - Auditing Types
 - Common Problems
 - Findings
- Best Practices and Continuous Improvement

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AS9100



eQuaLearn's AS9100 Rev. C course is a one-day program that provides a comprehensive review of AS9100 and illustrates how complying with this document leads to continual improvement.

Participants will:

- Fully understand the requirements of AS9100
- Identify steps necessary for your organization to successfully implement AS9100
- Understand the implications and benefits of AS9100
- Discuss how AS9100 will be interpreted by your auditor
- Understand management's role in the Quality Management System

A one-day program that provides a comprehensive review of AS9100



Topics Include:

- Interpreting AS9100 requirements
- Documentation requirements
- Tips on how to be compliant
- Using AS9100 as a tool for continual improvement for quality and profit

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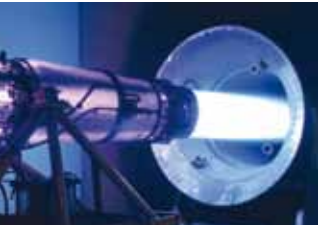


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AS9100 – Changes in Revision C



eQuaLearn's AS9100 Rev C course is a three-hour program that will provide a detailed review of the changes in AS9100 and how to apply these new requirements at your company.

Participants will:

- Receive a complete review of all of the changes made to AS9100
- Obtain a thorough understanding of why the revisions were made
- Learn what steps to take to implement new requirements

A three-hour program that will provide a detailed review of the changes in AS9100



Topics Include:

- AS9100 Rev C revisions
- Rationale for the revisions
- Implementing revised requirements
- Implementation due dates
- Questions and Discussion

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Process Failure Modes Effects Analysis (FMEA)



eQuaLearn's Process FMEA is a two-day course that explains Failure Modes Effects Analysis (FMEA) and provides participants and opportunity to develop a Process FMEA using a case-study approach to learning.

Participants will:

- Receive a thorough review and understanding of the FMEA process
- Learn how to develop and implement a Process FMEA
- Develop a thorough knowledge of how to use and maintain an FMEA as a living document



A two-day course that explains Process Failure Modes Effects Analysis (FMEA)



Topics Include:

- Introduction to Failure Mode Effects Analysis (FMEA)
- Understanding the FMEA Process
- Introduction to Process FMEA
- Process FMEA Step By Step Development
- Development of PFMEA
- PFMEA Case Study

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Problem Solving Tools

eQuaLearn's Problem Solving Tools course is a one-day program designed to teach participants to conduct a rigorous problem analysis, provide a structure to assist with small and large problems, and introduce tools that will help structure and make problem solving easier.

Participants will:

- Effectively identify problems
- Understand eight (8) problem-solving tools
- Select and apply appropriate tools to solve problems
- Improve problem analysis





Topics include:

- An overview of eight problem solving tools:
 - Flowchart/Process Map
 - Is/Is Not Analysis
 - Tally Charts/Location Maps
 - Pareto
 - Brainstorming
 - Cause and Effect Diagrams
 - 5 why
 - Mistake Proofing
- How to use each tool
- Selecting the appropriate tool
- Application of each tool and MORE!

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