



# ISO 3834 Fusion Welding Quality Lead Auditor Course

## **COURSE**

The “ISO 3834:2021 (Quality requirements for fusion welding of metallic materials) Lead Auditor” course provides comprehensive training for participants to be able to:

## **OBJECTIVES**

- Understand to audit each and every ISO 3834:2021 guidelines;
- Learn fundamental auditing skills;
- Implement methods to comply with the ISO 3834:2021
- Audit process and techniques
- Improve Auditor’s skills and techniques
- Examine the requirements of ISO 3834 from an Auditor Perspective
- Write Audit reports process and follow up corrective actions
- Plan, Lead, Conduct and report an ISO 3834 audit;

## **WHO NEEDS THIS COURSE?**

- Persons responsible for conducting certification audits according to ISO 3834:2021 requirements
- Persons involved in the ISO 3834:2021 certification audit process

## **COURSE CONTENT**

- **Background and Development of ISO 3834:2021**
  - Definition of ISO 3834:2021
  - Benefits of ISO 3834:2021
  - Types of Audits
  - Why Audits are needed
  - ISO 3834– overview

- Elements of 3834
- **Introduction to the Requirements of the ISO 3834:2021 Standard**
  
- Technical Review – materials type, welding process, NDE etc.,
- Welding coordination personnel competencies
- Responsible Welding coordinator (RWC) as per ISO 14731
- Sub-contracting of welding activities
- Heat Treatment & NDE
- Inspection & Testing **Equipment**
- Welding and related activities
- Welding consumables
- Storage of parent materials
- Post-weld heat treatment
- Inspection and testing
- Calibration and validation of measuring, inspection and testing equipment
- Identification and traceability
- **ISO 19011:2018**
  
- Fundamentals of Internal Auditing
- Decide how to Audit
- Principles of Auditing
- **Managing an Audit Programme**
  
- Preparation & Planning Of Audits
- Preparation Of checklist
- **ISO 19011:2018 and ISO 17021:2015**
  
- **Audit Activities**
  
- **ISO 17021:2015** Audit Process
  
- Certification Audit processes and criteria
- Identification of Non-Conformities [N/C's].
- Documenting the Audit (Audit Report)
- Conducting Audit Follow-Up
- Practical Auditing Exercise
- **Introduction to Management Review**
  
- Making Management Review relevant to Management
- What will be reviewed?
- Establishing the Objectives
- Planning the Management Review
- Output of Management Review
- **Competence and Evaluation of Auditors.**
  
- **Creating a Corrective Action Plan**

- What is Root Cause Analysis?
- When (and when not) to use Root Cause Analysis
- The Root Cause Analysis Process
- How to construct a Root Cause Analysis Checklist
- Examples of how a well-run Root Cause Analysis Process works
- Corrective and Preventive Actions

### **Training Methodologies**

- Case Study
- Individual Exercises
- Role Play
- Group Exercises
- Group Presentation
- Examination