

ISO 3834 - Fusion Welding Quality Lead Auditor Course

Course Outline

Background and Development of ISO 3834:2021

- Definition of ISO 3834:2021
- Benefits of ISO 3834:2021
- Types of Audits and Their Importance
- ISO 3834 Overview and Elements

Requirements of ISO 3834:2021

- Technical Review (Materials, Welding Process, NDE, etc.)
- Welding Coordination Personnel Competencies
- Responsible Welding Coordinator (RWC) as per ISO 14731
- Sub-contracting of Welding Activities
- Heat Treatment and NDE
- Inspection and Testing Equipment
- Welding and Related Activities
- Welding Consumables and Storage of Parent Materials
- Post-weld Heat Treatment
- Inspection and Testing Procedures
- Calibration and Validation of Measuring, Inspection, and Testing Equipment
- Identification and Traceability

Auditing Framework

- ISO 19011:2018 Principles and Fundamentals of Internal Auditing
- Deciding How to Audit and Managing an Audit Programme
- Preparation and Planning of Audits, including Checklists
- ISO 19011:2018 and ISO 17021:2015 Overview
- Audit Activities and ISO 17021:2015 Audit Process
- Certification Audit Processes and Criteria
- Identification and Documentation of Non-Conformities (N/Cs)
- Conducting Audit Follow-Up
- Practical Auditing Exercises

Management Review

- Introduction to Management Review
- Making Management Review Relevant to Management
- Establishing Objectives and Planning the Review
- Review Content and Output

Competence and Evaluation of Auditors

- Evaluating Auditor Competence
- Creating Corrective Action Plans

Root Cause Analysis and Actions

- Definition and Purpose of Root Cause Analysis
- When and When Not to Use Root Cause Analysis
- The Root Cause Analysis Process
- Constructing a Root Cause Analysis Checklist
- Examples of Effective Root Cause Analysis Processes
- Implementing Corrective and Preventive Actions

Spiretec Solutions