

CQI 15 - Welding System Assessment Training Programme Outline

Course Overview

Increasing demand of CQI standards released by AIAG. We bring you course on all CQI standard. CQI 15 Welding system assessment training focuses on educating individuals in evaluating the quality and integrity of welds. Topics typically include welding processes, inspection methods, safety protocols, and adherence to industry standards. The aim is to ensure welded joints meet specifications, structural requirements, and safety standards while minimizing defects and ensuring welder competence. The goal is to ensure that all the welding process (GTAW, GMAW, SMAW) provide required strength, aesthetics, and performance as per Industry standards and specifications. Participants learn how to ensure welded products meet industry standards and maintain consistency in the process along with requirements of CQI 15 Standard as per AAIG.

Who should attend?

Participants from technical background, related to Welding process, like Production Team, QA / QC Team, Operations Team, Project Managers / Leader / Engineers, Maintenance Team, Qualified Welders, etc.

Organizational Objective or benefits

1. To have a team with complete understanding of CQI 15 requirement
2. Knowledge of infrastructure and records required for complete process control
3. Confidence in facing and successful compliance satisfaction during CQI 15 audit

Learning / Program objective

1. Knowledge and awareness of CQI 15 requirements
2. Making participants awareness of the various records needed as per CQI 15 requirement.
3. To help participants develop a controlled process which is defect free
4. To clear the CQI 15 audit successfully.
5. Demonstrate welding system self-assessment right from welding management systems till processes
6. Describe What is a special process like welding
7. Mission and Goal of special process
8. Need for welding systems audit
9. Scope of welding system Audit
10. Assessment process and procedures
11. Process Tables & Demonstration on shop floor

Training methodology & Benefits

1. Class room activity based
2. Group discussion
3. The basic concept of requirement of a special process
4. System requirements for the welding process
5. Technical and process requirements.

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Body of Knowledge / Contents

- Cover Sheet
- Basic data of the Welding organization
- Audited areas according to the respective CQI-15 process table
- Contact data (auditor, company, participants)
- Weld System Assessment
- Audit Elements Section 1-5
 - Section 1: Welding System Process Assessment
 - Section 2: Documents
 - Section 3; Preplanning / Quality Documentation
 - Section 4: Production Monitoring / Documentation
 - Section 5: Rework or Scrap Procedures and Reports.

Welding Job Process – GMAW, LBW, Drawn Arc, Resistance, Friction Induction, Fastner Projection, MIAB etc.
Results of the CQI audit

Process control and testing Equipment
Questions concerning the process flow
Customer-specific requirements concerning the product
Operator and quality responsibility
Packaging & Logistics requirements

Job Audit

Process tables

Common pitfalls

Q & A

Take away for participants

- Presents a hands-on exercise to learning the Welding as a special process
- Obtaining consistent, reliable and reproducible results in the process, thus meeting the end reliability objective of welded component

Standard edition details: CQI Standard latest edition will be used during the training

Certificate

Certificate of successful completion shall be issued to all the delegates who attend entire duration of the course & pass the examination.