

# INTRODUCTION TO CQI-15 SPECIAL PROCESS: WELDING SYSTEM ASSESSMENT

Duration: 2 Days



## PROGRAM OVERVIEW

The goal of the AIAG Continuous Quality Improvement (CQI) Special Process Initiative is the reduction of campaigns, spills, recalls, and warranty claims related to components from "Special Processes."

The Special Process Initiative is comprised of individual work groups that develop assessments based on best practices and designed to provide a means of continual improvement, emphasizing defect prevention and reduction of variation and waste in the supply chain. The Special Process: Welding System Assessment 2nd edition (CQI-15) is a comprehensive audit covering all variations of welding intended to provide a common approach to a welding management system for automotive production and service part organizations. Now in its second edition, this document specifies process requirements for an organization or its suppliers performing applicable ferrous and non-ferrous metallic welding.

Numerous updates have been made including incorporating the job audit questions into the Process Tables to reduce redundancy and to simplify the audit flow, and the addition of two additional processes: Fastener Projection Welding and Magnetically Impelled Arc Butt (MIAB) Welding.

## OBJECTIVES

- Demonstrate ability to understand the requirements of CQI-Special Process Systems Assessment.
- Demonstrate ability to consistently provide product that meets customer and applicable regulatory requirements.
- Enhance customer satisfaction through the effective application of the system, including processes for continual improvement of the system.

## COURSE CONTENTS

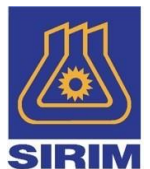
- Introduction to CQI-15 Special Process: Welding System Assessment (WSA)
- The Welding System Assessment Procedure
- Instruction for the weld system assessment
  - Section 1 – Weld system process assessment
  - Section 2 – Documentation
  - Section 3 – Preplanning/Quality documentation
  - Section 4 – Production monitoring/Documentation
  - Section 5 – Rework or scrap procedure and reports
- Instructions for the job audit process
- Job audit process tables (Process Tables 1 to 8)
  - Process Table 1 – Gas metal arc welding (GMAW)
  - Process Table 2 – Laser welding (LW)
  - Process Table 3 – Drawn arc welding (DAW)
  - Process Table 4 – Resistance welding (RW/ERW)
  - Process Table 5 – Friction welding (FW)
  - Process Table 6 – Induction/High frequency tube welding (HFTW)
  - Process Table 7 – Fastener projection welding (FPW)
  - Process Table 8 – Magnetically impelled arc butt (MIAB) welding (MIABW)

## WHO SHOULD ATTEND?

Managers, Quality Management Representatives, Engineers, Executives, Subcontractors.

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