# Introduction to CQI-27 Special Process: Casting System Assessment (CSA)

**Duration: 2 Days**

SIRIM ACADEMY

## PROGRAM OVERVIEW

The CQI-27 standard serves as a critical framework for the Casting System Assessment (CSA), emphasizing the importance of special process assessments to enhance quality and consistency in the casting industry. By aligning with industry best practices and benchmarks, the standard helps organizations optimize processes, ensure compliance, and achieve operational excellence in casting operations.

## OBJECTIVES

- Understand the fundamentals of the CQI-27 standard
- Gain proficiency in conducting Casting System Assessments (CSA)
- Learn to identify and mitigate risks in casting processes
- Familiarity with documentation and reporting requirements
- Implementing corrective actions for process improvement

## WHO SHOULD ATTEND?

This course is designed for professionals and stakeholders involved in the automotive casting industry, including but not limited to:
- Quality Assurance Managers
- Process Engineers
- Production Managers
- Auditors
- Supplier Quality Engineers
- Individuals responsible for implementing and maintaining casting processes within the automotive supply chain.

## COURSE CONTENTS

Day 1: Understanding CQI-27 Standard and CSA Basics
- Session 1: Introduction to CQI-27
  - Overview of automotive casting processes
  - Significance of special process assessment
- Session 2: CQI-27 Standard Elements
  - Key requirements and criteria
  - Interpretation of standard clauses
- Session 3: Casting System Assessment (CSA) Framework
  - Purpose and scope of CSA
  - Steps in conducting a CSA
- Session 4: CSA Documentation and Reporting
  - Required documentation
  - Reporting formats and templates

Day 2: Practical Application and Process Improvement
- Session 5: Case Studies and Practical Examples
  - Real-world examples of CSA in various casting processes
  - Analysis of successful CSA implementations
- Session 6: Risk Identification and Mitigation
  - Techniques for identifying risks in casting processes
  - Strategies for risk mitigation
- Session 7: Corrective Actions and Continuous Improvement
  - Implementing corrective actions based on CSA findings
  - Establishing a culture of continuous improvement
- Session 8: Q&A and Interactive Discussion
  - Addressing participant queries
  - Open discussion on challenges and solutions

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