AEROSPACE 8D PROBLEM SOLVING METHOD

Introduction

In the aerospace sector, problem solving must be **systematic, evidence-based, and compliant** with industry expectations. Based on **ASEQ RM 131000**, aerospace organizations are required to apply disciplined problem-solving approaches to protect product safety, customer satisfaction, and regulatory compliance.

The **Aerospace 8D Problem Solving Method** is a globally accepted, team-oriented methodology widely used by aerospace OEMs and suppliers to resolve complex quality and process issues. This **2-day public training** by **SQI** provides participants with practical knowledge, proven tools, and hands-on experience to confidently apply the **8D methodology** in real aerospace environments.

Objectives

By the end of this training, participants will be able to:

- Understand aerospace expectations for structured problem solving (ASEQ RM 131000)
- Apply all disciplines of the **8D method** correctly
- Select and use the **right quality tools** at each stage of 8D
- Prepare clear, effective, and defensible **8D reports**
- Apply 8D concepts through practical exercises and real-world case studies

Duration

2 days | 9am – 5pm | 14 hours

Who Should Attend

Intended for aerospace professionals responsible for meeting AS13100 / RM13000 requirements - including engineers and managers in Quality Assurance, Supplier Management, Production and Manufacturing, Design and Process Engineering, as well as cross-functional support teams.

Methodology

Interactive classroom-based learning with hands-on exercises and group activities

Course Fees

Member: S$780.44
Non-Member: S$704.14

All fees stated are inclusive of Registration Fee and 9% GST

Award of Certificate

Certificate of Completion will be issued to participants who have attended at least 75% of the course.

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Course Contents

Introduction & Overview

- Aerospace problem-solving expectations
- ASEQ RM 131000 requirements
- Overview of the 8D Methodology

Problem Solving Approach

- Understanding the Concept of Problem Solving
- Containment, correction, and corrective action
- Team-based problem solving and leadership roles

Problem Solving Methodologies

- Overview of PDCA, DMAIC, A3, and 8D
- Why 8D is preferred in Aerospace Corrective Actions

8D Problem Solving Method (D0–D8)

- **D0:** Preparation and emergency response
- **D1:** Build the cross-functional team
- **D2:** Describe the problem with data
- **D3:** Develop interim containment actions
- **D4:** Root Cause Analysis (identify and verify root causes & escape points)
- **D5:** Identify Corrective Action for root cause and verification
- **D6:** Implement Permanent Corrective Action
- **D7:** Prevent recurrence
- **D8:** Recognize the team

Tools for Effective 8D

- 5W2H, Process Mapping, 3W&1E, Is/Is Not
- 5 Why, 7 Basic tools, Fault Tree Analysis
- Data analysis, FMEA, Poke Yoke / Mistake Proofing

8D Reporting Format

- Standard Aerospace 8D structure
- Customer expectations and best practices
- Common mistakes to avoid

Practical Application

- Aerospace-based examples and case studies
- Group exercises and 8D report development
- Trainer feedback and lessons learned

Please refer to this URL https://www.sqi.org.sg/courses/ or QR Code for soft copy and updated training schedule

Membership Application

Register membership online at www.sqi.org.sg/membership-join/ or contact us to get the membership application form.

Membership Categories:
~ Organization membership
~ Individual membership

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