



AS9100 FIRST ARTICLE INSPECTION (FAI) TRAINING



MTBM Group Sdn. Bhd. (1600656-M)

Level 8, MCT Tower, Sky Park, One City, Jalan USJ 25/1, 47650 Subang Jaya, Selangor



+603 8022 8330



+603 8022 8201



info@mtbmgroup.com



mtbmgroup.com

Course Title: AS9100 First Article Inspection (FAI) Training

Course Validity: 2 Days

Validity: Not Applicable

HRD Corp Scheme: Claimable

INTRODUCTION

This training provides participants with a comprehensive and practical understanding of First Article Inspection (FAI) within the context of AS9100 and AS9102 aerospace requirements. The course explains the purpose, process and documentation required to verify that manufacturing processes can consistently produce parts that meet design, engineering and customer specifications. Participants will learn how to interpret engineering drawings, specifications, bill of materials, special characteristics and key product requirements essential for accurate FAI execution. Through real-world aerospace examples, case studies and hands-on exercises, participants will develop the competence to implement a robust FAI process that reduces defects, prevents recurring issues, improves process stability and supports supplier and organisational compliance with AS9100 expectations.

OBJECTIVE(S):

- Understand the purpose and requirements of AS9102 First Article Inspection.
- Learn how FAI supports AS9100 compliance and customer requirements.
- Interpret engineering drawings, specifications and special characteristics.
- Complete AS9102 Forms 1, 2 and 3 accurately and systematically.
- Perform dimensional, material and process verification for first articles.
- Strengthen traceability, documentation and configuration control.
- Improve supplier quality, manufacturing process reliability and audit readiness.

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TARGET GROUP(S):

- Quality engineers and quality inspectors
- Production and manufacturing personnel
- Supplier quality and procurement teams
- Design and engineering teams
- Aerospace component manufacturers
- Internal auditors and AS9100 implementation teams

ENTRY REQUIREMENT(S):

- Able to read, write and communicate verbally in Malay/English

TOPIC(S):

1. Introduction to AS9100, AS9102 and FAI Requirements
2. Purpose and Scope of First Article Inspection
3. Engineering Drawings, GD&T, Specifications and Special Characteristics
4. AS9102 Forms 1, 2 and 3 – Structure, Content and Requirements
5. Dimensional Inspection, Measurement Methods and Verification
6. Material, Process, Configuration and Traceability Requirements
7. FAI Documentation, Records, Evidence and Submission Packages
8. Implementing FAI Processes and Managing Nonconformities

LIST OF REFERENCE BOOK(S):

- AS9102 First Article Inspection Requirements
- AS9100D Aerospace Quality Management System
- Industry specifications, design and production guidelines

LIST OF TEACHING AID(S):

- LCD projector
- Computer
- Whiteboard with accessories
- Flip chart with accessories
- AS9102 templates, drawings and verification samples

METHODOLOGY(S):

- Lecture
- Group discussions
- Case studies
- Hands-on FAI form completion
- Practical inspection exercises

TRAINING SCHEDULE

Day 1

| Time | Activity / Topic |
|---------------------|--|
| 8:30 am – 9:00 am | Registration and Introduction |
| 9:00 am – 10:15 am | Topic 1: Introduction to AS9100, AS9102 and FAI Requirements |
| 10:15 am – 10:30 am | Morning Tea Break |
| 10:30 am – 12:30 pm | Topic 2: Purpose and Scope of First Article Inspection |
| 12:30 pm – 1:30 pm | Lunch Break |
| 1:30 pm – 3:30 pm | Topic 3: Engineering Drawings, GD&T and Special Characteristics |
| 3:30 pm – 3:45 pm | Afternoon Tea Break |
| 3:45 pm – 5:00 pm | Topic 4: AS9102 Forms 1, 2 and 3 for Requirements and Completion |

TRAINING SCHEDULE

Day 2

| Time | Activity / Topic |
|---------------------|--|
| 8:30 am – 9:00 am | Recap of Day 1 |
| 9:00 am – 10:15 am | Topic 5: Dimensional Inspection and Verification Methods |
| 10:15 am – 10:30 am | Morning Tea Break |
| 10:30 am – 12:30 pm | Topic 6: Material, Process and Traceability Requirements |
| 12:30 pm – 1:30 pm | Lunch Break |
| 1:30 pm – 3:30 pm | Topic 7: FAI Documentation, Records and Submission Packages |
| 3:30 pm – 3:45 pm | Afternoon Tea Break |
| 3:45 pm – 5:00 pm | Topic 8: Implementing FAI Processes and Managing Nonconformities |