



Factory Acceptance Tests

Course Introduction:

Factory Acceptance Testing (FAT) is a critical phase in the verification of equipment and systems prior to delivery to the client site. This course provides a comprehensive understanding of FAT processes, methodologies, and best practices to ensure that equipment meets specified requirements and functions correctly.

Course Objectives:

Upon the successful completion of this course, each participant will be able to:-

- Understand the purpose and importance of Factory Acceptance Tests.
- Learn the procedures and standards for conducting FAT.
- Develop skills in planning, executing, and documenting FAT.
- Familiarize with common challenges and solutions in the FAT process.
- Explore case studies to reinforce practical applications of FAT.

Who Should Attend?

- Project managers and engineers involved in equipment procurement and commissioning.
- Quality assurance and control personnel.
- Technicians and operators responsible for testing and validation.
- Anyone interested in understanding FAT processes and best practices.

Course Outline:

Day 1: Introduction to Factory Acceptance Tests

- **1.1 Overview of FAT**
 - Definition and purpose of FAT
 - Importance of FAT in project success
- **1.2 Regulatory and Industry Standards**
 - Relevant standards (e.g., ISO, IEC)
 - Compliance requirements

Day 2: FAT Planning

- **2.1 Pre-Test Preparation**
 - Developing a FAT plan: scope, objectives, and criteria
 - Identifying stakeholders and roles

- **2.2 Documentation Requirements**
 - Creating test protocols and checklists
 - Importance of specification documents

Day 3: Execution of FAT

- **3.1 Conducting the Tests**
 - Overview of common test types: functional, performance, and safety tests
 - Test execution procedures and best practices
- **3.2 Data Collection and Analysis**
 - Techniques for capturing test results
 - Analyzing and interpreting data

Day 4: Documentation and Reporting

- **4.1 Test Documentation**
 - Importance of thorough documentation
 - Components of a FAT report
- **4.2 Review and Approval Process**
 - Procedures for reviewing test results with stakeholders
 - Handling discrepancies and corrective actions

Day 5: Challenges and Case Studies

- **5.1 Common Challenges in FAT**
 - Identifying and overcoming obstacles during testing
 - Strategies for effective communication and collaboration
- **5.2 Case Studies**
 - Real-world examples of successful FAT implementation
 - Lessons learned and best practices

Conclusion

- **6.1 Summary of Key Takeaways**
 - Review of FAT processes and methodologies
 - Importance of FAT in ensuring quality and reliability
- **6.2 Q&A Session**
 - Open floor for questions and discussion

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Fees:

To be advised as per course locations. This rate includes participant's manual, Hand-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

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International Centre For Training & Development

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session