

TOTAL BUILDING COMMISSIONING PROCESS TRAINING

"Ensure Optimal Performance, Efficiency, and Reliability of Buildings Through Systematic Commissioning."

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

Introduction

The successful operation of modern buildings depends on the seamless integration of multiple systems including HVAC, electrical, plumbing, fire protection, and automation. Total Building Commissioning (TBCx) is a comprehensive quality assurance process that ensures all building systems are designed, installed, tested, and operating according to the owner's requirements and industry standards.

This training provides participants with practical knowledge and skills to implement the complete building commissioning process. Participants will learn the methodologies for planning, testing, and verifying building systems performance, ensuring energy efficiency, occupant comfort, and operational reliability. The course emphasizes hands-on exercises, real-world case studies, and step-by-step procedures to equip participants with actionable expertise.

Objectives

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

- Understand the concept and importance of Total Building Commissioning (TBCx).
- Plan and manage commissioning activities for new and existing buildings.
- Develop commissioning plans, checklists, and documentation templates.
- Perform functional performance testing for HVAC, electrical, plumbing, and fire systems.
- Identify and resolve system deficiencies and operational issues.
- Evaluate building performance against design intent and energy efficiency goals.
- Apply industry standards and best practices for commissioning processes.
- Ensure seamless handover to operations and maintenance teams.

Why Attend

Building owners, facility managers, engineers, and consultants need to ensure that buildings operate efficiently, reliably, and sustainably. This training provides hands-on experience in applying commissioning principles to real projects, helping participants optimize building performance, minimize energy consumption, and reduce lifecycle costs. Whether you are new to building commissioning or seeking to enhance your professional skills, this course equips you to deliver high-performing, reliable, and code-compliant buildings.

Target Audience

This course is suitable for:

- Facility Managers and Building Operators
- HVAC, Electrical, and Plumbing Engineers
- Project Managers and Construction Professionals
- Energy Consultants and Sustainability Specialists
- Design Engineers and Commissioning Agents
- Students and Graduates in Mechanical, Electrical, or Civil Engineering

Individual Benefits

- Gain practical knowledge of the building commissioning process.
- Improve skills in testing, verifying, and optimizing building systems.
- Learn to identify and troubleshoot operational deficiencies.
- Enhance problem-solving and analytical skills in building performance evaluation.
- Increase professional value and employability in commissioning and facility management.
- Develop confidence in managing commissioning projects from start to finish.

Organizational Benefits

- Ensure reliable and energy-efficient operation of building systems.
- Improve quality control and reduce operational risks.
- Optimize lifecycle performance and maintenance costs.
- Standardize commissioning procedures across projects.
- Enhance collaboration among design, construction, and operations teams.
- Build in-house expertise in total building commissioning and quality assurance.

Instructional Methodology

The training employs a practical, project-based approach through:

- Interactive demonstrations of commissioning processes and checklists
- Hands-on exercises for functional testing of building systems
- Real-world case studies of new and existing building projects
- Step-by-step tutorials for planning, testing, and documentation
- Group workshops and collaborative exercises in problem-solving
- Assignments focused on commissioning planning, execution, and reporting
- Continuous feedback and Q&A sessions for individual improvement

Course Outline

- Module 1: Introduction to Total Building Commissioning (TBCx) Concepts and Benefits
- Module 2: Commissioning Planning – Roles, Responsibilities, and Documentation
- Module 3: Design Review and Pre-Construction Commissioning Activities
- Module 4: Construction Phase Commissioning – Installation Verification and Quality Checks
- Module 5: Functional Performance Testing – HVAC, Electrical, Plumbing, Fire, and Automation Systems
- Module 6: System Deficiency Identification, Troubleshooting, and Resolution
- Module 7: Energy Efficiency Evaluation and Sustainability Considerations
- Module 8: Commissioning Documentation and Reporting Best Practices
- Module 9: Handover to Operations and Maintenance Teams
- Module 10: Capstone Project – Complete Total Building Commissioning Process Simulation

Certification

Upon successful completion, participants will receive a Certificate in Total Building Commissioning Process Training, recognizing their proficiency in planning, executing, and managing comprehensive building commissioning processes to ensure optimal performance, efficiency, and reliability.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training

Interested in running this course for your team?

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