
Commissioning Oversight for Green Projects: Requirements, Testing and Handover Course

26 – 30 September 2027
Kuala Lumpur





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Programme Summary

Commissioning oversight for green projects is the subject of this five-day training course for managerial leaders at applied level, ending in a commissioning oversight plan for one project. Green targets are set at design but proved only when systems are tested, accepted and handed over. The approach moves from the commissioning process and owner requirements, through functional testing, to acceptance evidence and post-handover checks. Mars Training Centre UK delivers this programme in commissioning oversight for green projects.

The Business Case

Buildings often reach handover without proof that energy, water and comfort targets are met. Leaders who commission, accept and operate green buildings need evidence rather than assurances. Structured oversight moves defects to the stage where they cost least and gives operators a building they can run to the design intent.

- Handover Defect Count: Falls as installation checks and tests find faults before acceptance.
- Energy Performance Gap: Narrows as targets are written into requirements and verified by testing.
- Opening Delay Risk: Declines as testing and issue closure are planned with the construction programme.

Principles and Evidence Base

- ASHRAE Guideline 0: Its commissioning process stages, from owner requirements to post-occupancy, frame the oversight cycle in Sessions 1 to 4.
- ASHRAE Standard 202: Its minimum commissioning process requirements shape the plan and test scope reviewed in Sessions 2 and 3.

Intended Participants

- Leaders who deliver and hand over buildings with sustainability targets.
- Owner representatives who write requirements and accept performance evidence.
- Facilities managers who inherit and operate newly handed over systems.
- Sustainability managers who must show that design targets are achieved.

The programme serves property development, healthcare, education, hospitality and public building organisations.



Learning Outcomes

1. Participants will be able to evaluate a commissioning process against the stages of a recognised guideline.
2. Participants will be able to construct owner requirements that state testable green performance targets.
3. Participants will be able to diagnose weaknesses in a commissioning plan and its test scripts.
4. Participants will be able to prioritise open deficiencies by performance and handover risk.
5. Participants will be able to compare test evidence with acceptance criteria and decide on acceptance.
6. Participants will be able to justify a handover recommendation to an executive sponsor.

Programme Structure

Day 1: Commissioning Oversight Foundations for Green Projects

What is commissioning meant to prove, and who owns that proof?

- ASHRAE Guideline 0 Commissioning Process Stages
- ASHRAE Standard 202 Commissioning Process Scope
- Commissioning Authority Role and Reporting Line
- Green Performance Target Register
- Commissioning Governance Responsibility Matrix

Day 2: Owner Requirements and Design Review

How are owner requirements written so that performance can be tested later?

- Owner's Project Requirements Template
- Basis of Design Review Checklist
- Systems Selection Review for Energy and Water Targets
- Commissioning Plan Outline
- Design Review Comment Log and Closure Tracking

Day 3: Construction Checks and Functional Testing

Is installed equipment ready, and do systems perform as specified?

- Installation Verification Checklists
- Functional Performance Test Scripts
- Integrated Systems Test Sequence
- Deficiency and Issues Log With Closure Rules
- Test Witnessing and Evidence Standards



Day 4: Performance Acceptance and Handover

What evidence is enough to accept a green building and hand it over?

- Acceptance Criteria and Evidence Matrix
- Systems Manual and Operator Training Review
- Seasonal and Deferred Testing Schedule
- Warranty-Period Performance Review
- Post-Occupancy Energy and Comfort Check

Day 5: Applying Commissioning Oversight to a Green Project

Is the project ready to be accepted, and what must still be closed?

- Applying the Day 1 Target Register to a Live Project
- Testing the Day 2 Requirements Against Design Documents
- Running the Day 3 Issues Log Through Closure Rules
- Applying the Day 4 Evidence Matrix to a Handover Decision
- Completing the Commissioning Oversight Plan

Methodology

The programme rests on structured exercises and case analysis. Participants work with redacted requirements documents, test scripts and issue logs from office, hospital and campus buildings, mark up weaknesses and defend acceptance decisions before a simulated sponsor panel.

- Suggested activity: Rewriting a vague efficiency goal as a testable requirement.
- Suggested activity: Reviewing a functional test script and listing missing steps.
- Suggested activity: Presenting an accept or defer recommendation to a simulated sponsor panel.

Capstone Output

Each participant completes a commissioning oversight plan for one live or sample project. It holds a target register, owner requirement statements, a review and testing schedule, an issues closure protocol and an acceptance evidence matrix. It is used to brief the project team, to set the reporting duties of the commissioning authority and to record why the building was accepted.

Frequently Asked Questions

Is commissioning oversight for green projects suitable for leaders who are not engineers?

Yes. It is set at applied level for managers who deliver, accept or operate buildings. You need project or facilities experience, not engineering design skills; the technical terms are explained as they arise.



Which standards does commissioning oversight for green projects rest on?

It rests on ASHRAE Guideline 0 for the commissioning process and ASHRAE Standard 202 for the process requirements. Both are used as review checklists for plans, tests and handover evidence.

How is the plan from commissioning oversight for green projects used at work?

You use it to brief the project team, set what the commissioning authority reports and decide what evidence permits acceptance. It also gives operators a record of how systems were proved.

How does commissioning oversight for green projects differ from a facilities management course?

It concentrates on proving that systems perform before and just after handover. Facilities management courses concentrate on running and maintaining a building once it is in service.