

Construction Management

Instructor: Amanda Thompson

Module 1: Fundamentals of Construction Management

This module explains the role of a construction manager, project phases, and the responsibilities across the project life cycle. It highlights project delivery methods like design-bid-build and design-build, and introduces the basic concepts of scope, cost, and time management.

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Module 2: Project Planning and Scheduling

Students learn how to plan construction projects using Work Breakdown Structure (WBS), Gantt charts, and network diagrams. The Critical Path Method (CPM) and PERT techniques are used to determine project timelines. Project scheduling software like Microsoft Project and Primavera are also introduced.

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Module 3: Cost Estimation and Budgeting

This module teaches cost estimation techniques, including preliminary, detailed, and unit-cost estimating. Students explore budgeting, cost tracking, and control measures. They also learn how to prepare a Bill of Quantities (BOQ) and the importance of contingency planning.

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Module 4: Quality and Risk Management

This module covers quality assurance (QA) and quality control (QC) processes along with construction risks. Students learn how to identify, assess, and mitigate risks in construction projects. The module also explores documentation, inspections, and checklists essential for compliance.

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Module 5: Legal and Contractual Aspects

The final module explores different types of construction contracts (lump-sum, unit-price, cost-plus). It explains legal responsibilities, claims management, dispute resolution, and contract administration practices.

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