



Engineering and Technology Management

COURSE SUMMARY

Course Number: E M 520

Course Name: Contract Project Management

Instructor: Rob Crick

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Semester Credits: 3

Prerequisites: None

Course Description and Objectives:

The course addresses project management as performed primarily through contracts or other formal agreements. For those who may participate in projects as an owner, a contractor, or a subcontractor, the course introduces the subjects of planning, organizing, and managing projects from start (the proposal) to finish (project closeout). Most topics are applicable to any type of project. The primary emphasis of the course is on construction-type projects, utilizing the latest construction industry practices for project management, for both commercial and government clients. The course presents project planning and scheduling based on the critical path method (CPM), project monitoring and control using earned value techniques. Environmental rules affecting construction and green building processes are introduced; construction safety and security are emphasized. The course also introduces management and leadership topics specifically for managers and those aspiring to become managers of technical projects.

Course Topics:

- RFPs, Bids, Proposals
- Project Contracts and Subcontracts
- Project Planning and Scheduling
- Estimating, Budgeting, Cost Control
- Commercial & Government Construction Projects
- Resource Planning and Utilization
- Project Organization
- Project Control, Earned Value
- Managing Project Changes
- Quality Standards in Fabrication and Construction
- Environmental Regulations, Green Building
- Construction Safety and Health, Security
- Project Communications and Administration
- Project Closeout

Grading:

Mid-Term Exam: 30%, Final Exam: 30%, Project: 25%, Participation and Homework: 15%