

JRYM 105: PROJECT MANAGEMENT DEVELOPMENT FOR COMMERCIAL CONSTRUCTION LEVEL 1

Foothill College Course Outline of Record

Heading	Value
Units:	2.5
Hours:	18 lecture, 36 laboratory per quarter (54 total per quarter)
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Student Learning Outcomes

- Produce a commercial construction estimate that demonstrates the skills of a project manager including, defining the scope of the project, identifying all risks and costs of a project, and develop a labor crew mix strategy.
- Develop and present a lean presentation that demonstrates critical thinking of how to apply skills of a project manager communication, planning, and scheduling to increase efficiency and reduce costs of a construction project.

Description

In this course students will learn the roles and responsibilities of a commercial construction project manager. Students will learn topics that cover the entire life cycle of a construction project. Lecture and exercises will entail pre-construction planning, estimating, project monitoring, and project closeout.

Course Objectives

The student will be able to:

- Understand and identify project life cycle phases
- Develop, and model communication skills required to coordinate team members' contributions and responsibilities
- Develop and demonstrate proficient leadership and presentation skills
- Organize, understand, and develop/write industry standard project documents
- Describe and apply LEAN pre-planning and scheduling practices
- Develop and understand how to create and present marketing presentations
- Develop and apply negotiation skills

Course Content

- Understand and identify project life cycle phases
 - Pre-construction, construction, and closeout
 - Responsibilities and task in each project phase and provide examples
 - Guest speaker, individual, partner, and group exercises

- Develop and model communication skills required to coordinate team members' contributions and responsibilities
 - Lecture overview, individual assignment, followed by small group discussion
 - Speaking, listening, and decoding
 - Team building exercises, group project, and guest speakers
 - Communication style assessment, StrengthsFinder assessment, and listening evaluation
 - Student's awareness and improvement
- Develop and demonstrate proficient leadership and presentation skills
 - Myers-Briggs assessment
 - Value identification exercises
 - Personal mission statement
 - Group presentation exercises
 - Daily class journal exercises
- Understand, organize, and develop industry standard project documents
 - Industry standard documents
 - Understand and create request for proposal (RFP)
 - Understand and create a request for information (RFI)
 - Understand and create submittal, change order, budgets, and closeout documents
 - Develop a construction estimate from take-off, pricing, and scope letter
 - Weekly review
- Understand and apply LEAN pre-planning and scheduling practices
 - Concepts in *2 Second LEAN* by Paul Ackers
 - Weekly journal applying LEAN concepts
 - Guest speakers with interactive activities
- Understand and apply business development, marketing, and negotiating concepts and strategies
 - Marketing concepts are taught through lecture, video, and guest speakers
 - Team building and negotiation exercises in group project assignment
 - Group presentation selling the scope of work to the client

Lab Content

- Students will work individually, in partners, and in teams on estimating, presentations, and preparing construction documents.

Special Facilities and/or Equipment

- Laboratory with internet enabled computers
- AV equipment and overhead projector
- Video camera

Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

- Results of daily written exercises, weekly homework assignments, and final presentation
- Satisfactory completion of bid and proposal presentation
- Class participation and exercises

Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

- Lecture
- Lab assignment

- C. Group discussion
- D. Presentation

Representative Text(s) and Other Materials

Project Management Institute. Construction Extension to the PMBOK Guide. 6th ed. Newtown Square, PA: Project Management Institute, Inc., 2016.

Akers, Paul. 2 Second LEAN. 3rd ed. Ferndale, WA: Fast Cap Press, 2014.

Rath, Tom. 2 StrengthsFinder. 3rd ed. New York, NY: Gallup Press, 2004.

NOTE: Although one or more of these texts is/are older than the recommended 5 years, they conform to national training standards and are considered seminal works in the discipline. We will adopt the next edition of each text, as it is published.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

A. Textbook: 2 Second LEAN

1. Readings: Students will read the entire book
2. Writing: Students will prepare a written report and presentation of the 2 Second LEAN

B. Textbook: Project Management Institute

1. Readings: Students will be assigned selected readings from the book
2. Writings: Students will apply reading in construction project management documentation planning and preparation exercises

C. Textbook: StrengthsFinder

1. Readings: Students will read the strengths as indicated from the computer-based assessment
2. Writings: Students will create goals based on the strengths

Discipline(s)

Plumbing, Steamfitting, Air Conditioning, Refrigeration, Heating