

THE ENGINEERS CLUB OF PHILADELPHIA  
PRESENTS  
CONSTRUCTION PROJECT MANAGEMENT

**Spring 2010  
Syllabus**

COURSE TITLE: Construction Project Management

TIMES: 6:00PM – 8:30PM

DAY: Wednesdays, March 24 through May 12, 2010

LOCATION: Racquet Club of Philadelphia

PREREQUISITE: None

COURSE DESCRIPTION: Eight-session course with focus on the unique ‘Challenges’ of the construction industry. Procedures and Techniques will be presented that help the Project Manager to identify and solve project issues related to Project Time, Cost, Resources, Financing and COMMUNICATION.

COURSE OBJECTIVE: An over all analysis of the Role of the Construction Project Manager as part of the building team. Focus is placed on the many challenges that face the project manager and some of the techniques available to help mitigate problems that may effect the overall outcome of the project.

TEXTBOOK: “Construction Project Management” by Sydney M. Levy, 5<sup>th</sup> Edition, 2006, McGraw-Hill. Textbook is included in tuition and will be provided.

ADDITIONAL REFERENCES:

“**Construction Management**” by Daniel W. Halpin and Ronald W. Woodhead, 2nd Edition, 1998, John Wiley & Sons, Inc.

“**Professional Construction Management: including C.M., Design-Construct, and General Contracting**”, 3<sup>rd</sup> Edition, by Donald S. Barrie and Boyd C. Paulson, 1992, McGraw-Hill, Inc.

“**Fundamentals of Construction Management and Organization**” by Tenah and Guevara, Teston Publishing Co.

“**Estimating Construction Costs**”, by R.L. Peurifoy and G.D. Oberlender, 4<sup>th</sup> Edition, 1989, McGraw-Hill, Inc., New York

“**Handbook of Construction Management and Organization**”, by Joseph P. Frein, 2<sup>nd</sup> Edition, 1980, Van Nostrand Reinhold Publishing Company

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**“Construction Planning, Equipment and Methods**, by  
R.L. Peurifoy and W.B. Ledbetter, 4<sup>th</sup> Edition, 1985, McGraw-Hill, Inc.

**“Construction Specification Handbook”**, by Hans W.  
Meir, 4<sup>th</sup> Edition, 1989, Prentice-Hall, Inc.

MISCELLANEOUS: Turn off beepers and cellular phones during class.

CONFERENCES: Available upon request.

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**COURSE SCHEDULE**

DATE	TOPIC	READINGS
March 24 <i>Wednesday</i>	Class overview; Industry discussion, Project life & roles of Team members	Syllabus, Chapter 1
March 31 <i>Wednesday</i>	Construction Process & General Conditions	Chapter 2 & 3
April 7 <i>Wednesday</i>	Planning & Documentation	Chapter 6, 11
April 14 <i>Wednesday</i>	Scheduling, Project Organization	Chapter 5
April 21 <i>Wednesday</i>	Claims & Disputes	Chapter 12
April 28 <i>Wednesday</i>	Cost Estimating	Chapter 7, 8
May 5 <i>Wednesday</i>	QC – QA; Change Orders	Chapter 9, 10
May 12 <i>Wednesday</i>	Green Building & BIM	Chapter 15, 16

OUTLINE OF COURSE SELECTION TOPICS:

See textbook for Table of Contents. It is my goal to cover pertinent topics in the textbook during our seminar periods.

- **Chapter 1 Introduction to the Construction Industry**
- **Chapter 2 Start of the Construction Process**
  - Contracts
  - Forms of construction
- **Chapter 3 General Conditions of Construction**
  - Articles and provisions
- Chapter 4 Bonds and Insurance
- **Chapter 5 Organizing the Project Team**
  - Jobsite office
  - Filing & Records
  - Scheduling
- **Chapter 6 Successful Project Completion Demands a Successful Start**
  - Owner Expectations
  - Control the Process
  - Plan with an end in mind
    - Specs
    - As-builts

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- O&M Manuals
- **Chapter 7 Estimating**
  - Cost index
  - Cost coding
  - Forms of estimates
- **Chapter 8 Buying Out the Job**
  - Subcontracts
  - Negotiations
- **Chapter 9 Change orders**
  - Merit
  - Cost & Time impact
  - Evaluation of potential Changes
- **Chapter 10 Quality Control and Quality Assurance**
  - During Design
  - TQM
  - Six Sigma approach to Quality
  - Specifications
- **Chapter 11 Project Documentation**
  - Submittals
  - Field reporting
  - Progress reporting
- **Chapter 12 Claims, Disputes, Arbitration, and Mediation**
  - Contract interpretation
  - Mutual understanding
  - Differing conditions
- Chapter 13 Safety
  - OSHA
  - Safety pays!
- Chapter 14 Design Build
  - What is it?
  - Capabilities
  - Program Development
  - D-B in Public?
- **Chapter 15 Sustainable and Green Buildings**
- **Chapter 16 Interoperability and Building Information Modeling (BIM)**