New York University  
Tandon School of Engineering  
Department of Civil Engineering & Urban Systems  

Adjunct Professor: Salvador Rozenberg, MBA, R.P.A.  

CE-GY8253 – Project Management For Construction 

Course Description 

Project Management For Construction will provide the course participant with an overview of today’s construction industry, as well as the future trends and historically growth of the industry. The course covers the construction processes, monitoring and project management. This broad treatment of the course is design to challenge the course participant with improving basic knowledge and skills required to function as a construction or project manager. The course will also be invaluable to those participants intending to pursue careers in construction management and real estate development with understanding of construction concepts necessary to produce efficient and sustainable structures at multiple urban, suburban and rural locations. Many of the project management techniques presented can be applied to organizational management.
The construction means, methods and materials employed in creating structures such as commercial, government, industrial, infrastructure, research, residential and retail will be presented. Several project management topics including types of business entities, delivery systems, planning, scheduling, work breakdown structure, basic estimating, cost control (earned value analysis), procurement, bid leveling, quality control with value engineering, safety, productivity, risk management, surety bonding, insurance claims, legal issues will be addressed. Emphasis will be on the minimum hands-on practical application of the construction management principles. The fall semester class meets on Friday's 12:30 pm to 3:00 pm.

Course Textbook:

Course Objectives:

- Understanding of business entities
- Introduce the non technical oriented individual to the business aspects of the construction industry
- Understanding of construction job functions
- Introduce basic estimating and cost control skills
- Fundamentals of CSI Masterformat, contracts, AIA contracts and Requests For Proposal (RFP’s)
- Practice researching of databases to prepare proposals or bids. This practice skill sets will be utilized for the class projects with Work Breakdown Structures (WBS) and Gantt Charts (timeline – bar charts)
- Explore construction means, methods, materials and delivery systems
- Establish safety procedures and OSHA protocols
- Cultivate teamwork and communication skills
- Kindle professionalism and ethical business practices
Course Grading:

Attendance: 10%
Class participation: 10%
Homework: 10%
Research: 10%
Quizzes: 25%
Individual and or Team Projects: 35%

Course Rating Percentage:

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<th>Grade</th>
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<td>A</td>
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<td>A-</td>
<td>90.0 – 92.9</td>
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<td>B+</td>
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Projected Course Schedule:

Week 1 – Practice of communications skills, students prepare data sheets, discussion of a class project and team organization. Purchase textbook.

Week 2 – Discuss the responsibilities of the Construction Management and role of the construction manager or general contractor.


Week 4 – Team Project Manager to formulate and submit organization chart, teammates responsibility and submit team project mission statement. Field trip to project site to be announced.

Read assigned chapters of the textbook

Week 5 - Class discussion of assigned chapters.

Week 6 - Read assigned chapters and discuss chapter topics
Week 7 – Quiz I – Chapters 1 through 6 and Class discussion on the topic: Risk Management, Insurance Coverage and Surety Bonding, Liability Exposure and Worker’s Compensation.

Week 8 – Class discussion on assigned chapters.

Week 9 – Class discussion on assigned chapters.

Week 10 – Preliminary submission of class project. Overview of textbook chapters.

Week 11 – Discussion of Project Scheduling and Delivery Systems

Week 12 – Quiz II – Chapters 7 through 12

Week 13 – Class project team meeting to review for presentation. Review quiz II answers.

Week 14 – Final review for class presentation

Week 15 – Individual or Class Team Project Presentation
In addition to receiving the NASCLA Contractors Guide to Business, Law and Project Management, Basic 11th Edition