

Agenda

Presented by S. Bobby Rauf, PE, CEM, MBA

Project Management Overview

- Design and construction process
- Project phases - project mapping and flow
- Phased implementation of long multi-segmented projects
- Contracts and agreements
- Project teams organization and transactional protocols
- Project manager skills, best practices and responsibilities

Project Procurement and Development

- Defining the project
- Project scope and functional specification development
- Project design specifications
- Design drawings and drawing review

Project Estimating and Budgeting

- Development of long lead estimates and long lead funding
- Funding requests
- Project life cycle cost and basic financial analysis
- Bids/proposals, pre-bid meeting, bid selection and purchase order

Work Plan Development and Scheduling

- Pre-mobilization transfer of drawings, specifications and safety information
- Project planning, control, implementation, and resource management
- Project schedule development
- Project management – progress monitoring, cost control and safety
- Scope changes and change orders

Construction Phase

- Construction and project implementation phase best practices
- Receive equipment, material, tools, equipment and supplies for installation
- Safety during construction phase
- Factory testing – AKA: factory acceptance test

Project Close-Out and Turn-Over

- On-site system testing
- Final risk assessment
- Guarantees, warranties, spare parts, supplies, as-built drawings and software
- Production, plant engineering and plant maintenance training
- Project start-up and commissioning and closure
- Ancillary – core technical topics for most large projects

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Engineering Project Management

Live, Interactive Webinar - Monday, November 8, 2021

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Learning Objectives

You'll be able to:

Identify project phases and assemble project teams.

Define project scope and develop design specifications.

Get tips on estimating and budgeting.

Develop schedules and control costs.

Discuss best practices for construction and project implementation.

Maintain safety and control quality.

Focus on implementation and testing.



HalfMoon Education Live Webinars

Engineering Project Management

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Identify project phases for simple projects and for long-term, multi-segmented projects

Define project scope and assemble project teams

Work on funding requests and implement bid processes

Develop project schedules and cost control practices

Identify best practices for construction and project implementation

Establish safety procedures and conduct on-site system testing

Continuing Education Credits

Professional Engineers

7.0 PDHs

Architects

7.0 Non-HSW CE Hours

AIA

7.0 LU | Elective

International Code Council

.7 CEUs (Administration)

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Faculty

S. Bobby Rauf, PE, CEM, MBA
President, chief consultant and a senior instructor at Sem-Train, LLC.

Mr. Rauf has over 25 years of experience in teaching undergraduate and postgraduate engineering, science, math, business administration and MBA courses, seminars and workshops. Mr. Rauf earned his BS degree in Electrical Engineering, with honors, from North Carolina State University in Raleigh, North Carolina. He earned his executive MBA degree from Pfeiffer University in Misenheimer, North Carolina. Mr. Rauf is a registered professional engineer (PE) in the State of North Carolina, and he is a certified energy manager.

Mr. Rauf was previously employed with PPG Industries, Inc. where he served as a senior staff engineer. During his long career at PPG, his responsibilities included development and management of energy and ergonomics programs for multiple manufacturing plants in the US and overseas. He also provided consultation and training services in energy, electrical engineering, industrial safety, ergonomics and the arc flash arena. His extensive engineering experience includes power design, control system design, project management, process management, energy and utilities management, energy audits/assessments, plant maintenance, robotics, manufacturing automation, HVAC audits, and design of ergonomic equipment.

Webinar Information

Log into Webinar 8:00 - 8:30 am CST	Break 12:00 - 1:00 pm CST
Morning Session 8:30 am - 12:00 pm CST	Afternoon Session 1:00 - 5:00 pm CST

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Additional Learning

How to Handle Claim Issues and Dispute Resolution for Public and Private Construction Projects
- Tues, Oct 12, 2021 | 10:00 am - 1:15 pm CDT

Focus on Drones: UAS Spotlight for Utilities
- Wed, Oct 13, 2021 | 1:00 - 3:00 pm CDT

International Building Code 2021
- Thurs, Oct 14, 2021 | 8:00 am - 4:00 pm CDT

Focus on Moisture Control in Buildings
- Thurs Oct 14, 2021 | 8:30 - 11:00 am CDT

Advanced Healthy HVAC: Balancing First Cost, Occupant Comfort, and Safety
- Fri, Oct 15, 2021 | 8:30 am - 5:00 pm CDT

Parking Structure Design, Construction, and Maintenance
- Fri, Oct 15, 2021 | 8:00 am - 3:30 pm CDT

Continuing Education Credit Information
This webinar offers 7.0 PDHs to professional engineers and 7.0 non-HSW continuing education hours to architects licensed in all states that allow non-HSW coursework.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 7.0 LU | Elective (Sponsor No. J885). Only full participation is reportable to the AIA/ CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Administration (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event, respond to prompts and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

AIA Contract Document Workshop
- Mon, Oct 18, 2021 | 8:30 am - 4:30 pm CDT

Handling Ethical Issues in Construction Contracting
- Mon, Oct 18, 2021 | 10:00 - 11:00 am CDT

SketchUp for Building Professionals
- Tues, Oct 19, 2021 | 11:00 am - 2:45 pm CDT
- Wed, Oct 20, 2021 | 11:00 am - 2:45 pm CDT

Focus on Passive House and Reducing Carbon Footprint
- Wed, Oct 20, 2021 | 11:00 am - 1:00 pm CDT

Residential Structural Design
- Mon, Oct 25, 2021 | 8:30 am - 4:30 pm CDT

Whole Building Technical Commissioning
- Mon, Oct 25, 2021 | 8:30 am - 4:00 pm CDT

For more information and other online learning opportunities visit:
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Registration

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