

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 Management

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

Engineering Project Management
Greensboro, NC - Thursday, February 14, 2019

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PO Box 278
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Learning Objectives

You'll be able to:

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.

Establish safety procedures and conduct on-site system testing.



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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

Focus on implementation and testing

Continuing Education Credits

This seminar offers 7.0 PDHs to professional engineers.



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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 post graduate 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.

Here’s what past attendees had to say about the program and presenter Bobby Rauf:

- “Good presentation.” — *Mechanical Engineer*
- “Very knowledgeable and passionate.” — *Electrical Engineer*
- Bobby is a great presenter.” — *Engineer*

Seminar Information

**Greensboro-High Point
Marriott Airport**
One Marriott Drive
Greensboro, NC 27409
(336) 852-6450

Tuition
\$279 for individual registration
\$259 for three or more registrations.
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- Mail-in or fax the attached form to 715-835-6066
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Continuing Education Credit Information

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Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

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An audio recording of this seminar is available for \$289. Allow four weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Additional Learning

Webinar Series

- Commercial Solar Peaker Batteries**
- **Commercial Solar Peaker Batteries, Part I**
Wed., Jan. 9, 2019, 11:00 AM - 3:15 PM CST
 - **Commercial Solar Peaker Batteries, Part II**
Thurs., Jan. 10, 2019, 11:00 AM - 2:15 PM CST

Proposal Writing
Fri., Jan. 11, 2019, 11:00 AM - 3:30 PM CDT

- Technical Writing**
- **Technical Writing Basics**
Mon., Jan. 14, 2019, 11:00 AM - 1:00 PM CST
 - **Planning Documents**
Mon., Jan. 14, 2019, 1:30 - 3:30 PM CST
 - **Writing Documents**
Tues., Jan. 15, 2019, 11:00 AM - 1:00 PM CST
 - **Revising and Editing Documents**
Tues., Jan. 15, 2019, 1:30 - 3:30 PM CST

- Fiber-Reinforced Composites**
- **Portland Cement and Masonry**
Thurs., Jan. 17, 2019, 11:00 AM - 1:00 PM CST
 - **Fiber-Reinforced Composites**
Thurs., Jan. 17, 2019, 1:30 - 3:30 PM CST
 - **Fiber-Reinforced Polymer (FRP) Composites Reinforcement**
Fri., Jan. 18, 2019, 11:00 AM - 1:00 PM CST
 - **Overview of Sandwich Materials and Structures**
Fri., Jan. 18, 2019, 1:30 - 3:30 PM CST

- Pumping and Piping Systems**
- **Introduction to Pumps: Operation, Principles and Calculations**
Thurs., Jan. 24, 2019, 12:00 - 2:00 PM CST
 - **Design Standards and Codes**
Thurs., Jan. 24, 2019, 2:30 - 3:30 PM CST
 - **Piping System Components, Materials and Calculations**
Fri., Jan. 25, 2019, 12:00 - 2:00 PM CST
 - **Handling Pump and Piping System Problems**
Fri., Jan. 25, 2019, 2:30 - 3:30 PM CST

For more information visit:
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Registration

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Complete the entire form. Attach duplicates if necessary.		Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.
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Tuition

() **I will be attending the live seminar.** Single Registrant - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.

() **I am not attending.** Please send me the self study-package for **\$289.00**.

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