Program Overview: An investigation of key topics associated with planning and managing capital construction projects, how these topics are integrated into a capital construction project management plan that achieves business and project objectives, and how the project team uses the project management plan to successfully complete the construction project.

CE 8320 —Capital Project Management Fundamentals
Fundamental concepts of designing and constructing capital projects – what they are, why they are done, who is involved, and how to best design and build them; phases of a capital project; variations of organizational and contractual structures used for capital projects.

CE 8330—Capital Project Controls
Principles and best practices of project controls for capital construction projects, including conceptual and detail estimating, scheduling, and earned value management (EVM); development of project baseline incorporating scope, schedule, and budget; use of baseline to monitor and manage cost and schedule performance; and shortcomings of EVM.

CE 8340—Key Topics in Capital Project Management
An investigation of key topics associated with planning and managing capital construction projects, how these topics are integrated into a capital construction project management plan that achieves business and project objectives, and how the project team uses the project management plan to successfully complete the construction project.

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