COURSE SYLLABUS

Schedule, Cost & Resource Management Course

Develop essential skills in project scheduling, cost estimation, and resource management with expert-led training and practical tools.

Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://sdfm.graduateschool.edu/courses/schedule-cost-resource-management



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Course Outline

Module 1: A Refresher: The PMBOK® Guide – Eighth Edition Framework

- Summarize the six principles, seven performance domains, five focus areas, and forty processes of the PMBOK® Guide – Eighth Edition, including tailoring.
- Locate the Schedule, Finance, and Resources performance domains within the overall PMBOK® Guide – Eighth Edition framework.
- Describe how the Schedule, Finance, and Resources performance domains relate to one another across the project lifecycle.

Module 2: Creating the Baseline: Inputs to Scheduling, Finance, and Resources

- Describe the relationship between project scope and schedule, finance, and resource planning.
- Create project scope outputs for the work breakdown structure (WBS) to inform schedule, finance, and resource planning.
- Use the Scope Statement and WBS as inputs for subsequent planning activities.

Module 3: Scheduling, Part 1: Determining and Sequencing Activities

- Link project scope outputs to project schedule inputs.
- Create an activity network diagram to sequence project activities.
- Understand activity sequencing terms and concepts.

Module 4: Schedule, Finance, and Resources Estimating Techniques

- Define common project estimating techniques, such as analogous and parametric estimating.
- Calculate project activity duration, resource, and finance estimates using the most appropriate techniques.
- Recognize the benefits and limitations of each estimating technique.

Module 5: Scheduling, Part 2: Determining the Critical Path and Finalizing the Project Schedule

- Learn how to calculate the critical path using forward and backward pass techniques.
- Finalize the project schedule and understand the concept of "float" or "slack" in scheduling.
- Use network diagrams to identify critical activities that impact the project timeline.

Module 6: Working with the Project Team

- Identify communication barriers and methods to overcome them.
- Understand the stages of team development and how to manage teams at each stage.
- Define the five competencies of emotional intelligence and their application in project management.

Module 7: Schedule, Finance, and Resources Control

- Learn methods for maintaining integrated project control through project reviews and change control boards.
- Understand earned value management (EVM) and calculate project performance based on finance and schedule data.
- Identify methods to modify project schedules and forecast project outcomes using earned value management.