

Advanced Scheduling for Success - Verify the Certainty of your Critical Path

Learn Advanced Scheduling Techniques that are Essential for Successful Construction Projects



Elective Course for the Construction Management Certificate Program (CMC)

A FLEXIBLE PROFESSIONAL DEVELOPMENT PROGRAM DESIGNED FOR FIELD AND OFFICE LEADERS IN THE CONSTRUCTION INDUSTRY

COURSE OVERVIEW

Scheduling projects is a fundamental skill for project leaders. The ability to plan and organize project activities in a sequence that addresses the constraints of time and fabrication is important to have a credible schedule. The accuracy of the schedule and predicted end date is directly affected by the critical path and the certainty of those activity durations. When project leaders apply statically valid evaluation tools to test the predictions, the expectation of success increases.

This course uses the basic scheduling and sequencing process most commonly used to create critical path schedules and takes a deeper look into the variability of the activity durations. The result is the application of a testing method to predict if different sequencing approaches assure on-time completion. Using this method of statistical evaluation of the baseline data the level of certainty for different critical pathways can be determined to allow project leaders to choose the best.

Learners will use computer tools, and hands-on exercises to learn the evaluation method and how to interpret the output data. At the end of the course, participants will be able to assign variability to project activities based on objective data, analyze the critical path of a project and predict the certainty that the project can be completed on time, and finally test other paths and activity durations to determine if acceleration or activity stacking could yield time and money savings. Each of these outcomes will allow the learner to effectively communicate with their teams why a schedule will be effective and efficient.

LEARNING OBJECTIVES

- Identify project activities with time variability and assess their impact on the schedule.
- Determine minimum, average, and maximum durations for key activities.
- Develop and analyze a critical path schedule for project timelines.
- Measure time variability and statistical certainty for project completion within a set duration.
- Evaluate the effects of acceleration by comparing different schedule pathways.
- Predict the likelihood of project completion based on specific schedule sequences.
- Effectively communicate schedule analysis and results to both internal and external stakeholders.

COURSE DETAILS & REGISTRATION INFORMATION

Date: Friday, April 2, 2027
Time: 8:00 a.m. – 12:00 p.m.
Cost: \$200 (Breakfast Included)
Instructor: Michael J. Soller P.E. CPC, DBIA
Location: Construction Advancement Foundation
6050 Southport Road, Suite A
Portage, IN 46368

This course can be taken as a stand-alone or as part of the CAF Construction Management Certificate (CMC) Program

Register Online by: March 31, 2027
<https://cafwin.org/register>
or Call the CAF at 219-764-2883