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Course Name

Critical Path Method (CPM) in Project Scheduling

Sector Name

Project & Contract Management

Document Type

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Critical Path Method (CPM) in Project Scheduling

Course Introduction

(CPM)

The Critical Path Method (CPM) is a vital project management tool used to plan, schedule, and control complex projects efficiently. By identifying critical and non-critical tasks, CPM allows project managers to prioritize resources, predict timelines, and ensure timely project delivery.

This course provides a comprehensive understanding of CPM principles, techniques, and applications, equipping participants with the skills needed to optimize project schedules and enhance decision-making.

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Critical Path Method (CPM) in Project Scheduling

Target Audience

- ✓ Project Managers
- ✓ Project Coordinators
- ✓ Operations Managers

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Critical Path Method (CPM) in Project Scheduling

Learning Objectives

- ✓ Understand the fundamentals and importance of the Critical Path Method in project scheduling.
- ✓ Identify critical paths and calculate project timelines using CPM techniques.
- ✓ Develop project schedules with activity sequencing and duration estimation.
- ✓ Apply float analysis to identify and manage project risks effectively.
- ✓ Utilize software tools to create and manage CPM-based schedules.
- ✓ Analyze and optimize schedules to ensure project efficiency and on-time delivery.

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Course Outline

✓ DAY 01

Introduction to Project Scheduling and CPM

- ✓ Overview of project scheduling techniques
- ✓ History and development of CPM
- ✓ Key concepts and terminologies (e.g., activities, dependencies, milestones)
- ✓ Benefits and limitations of CPM
- ✓ Case studies: Real-world applications of CPM

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Course Outline

✓ Day 02

Building the CPM Network Diagram

- ✓ Steps to create a CPM network diagram
- ✓ Identifying project activities and dependencies
- ✓ Types of relationships (Finish-to-Start, Start-to-Start, etc.)
- ✓ Drawing precedence diagrams
- ✓ **Workshop:** Constructing a basic network diagram

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Course Outline

✓ Day 03

Calculating the Critical Path

- ✓ Forward and backward pass calculations
- ✓ Determining the earliest and latest start/finish times
- ✓ Identifying the critical path and project duration
- ✓ **Float analysis:** Total float vs. free float
- ✓ **Hands-on exercise:** Critical path calculation

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Course Outline

✓ Day 04

Advanced CPM Applications

- ✓ Resource leveling and allocation
- ✓ Incorporating constraints into CPM schedules
- ✓ Managing schedule risks with CPM
- ✓ Monitoring and controlling project schedules
- ✓ Software tools for CPM (e.g., MS Project, Primavera)
- ✓ **Workshop:** Developing a CPM schedule using software tools

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Course Outline

✓ Day 05

Optimizing and Managing Project Schedules

- ✓ Techniques for schedule optimization
- ✓ Crashing and fast-tracking methods
- ✓ Reviewing and updating CPM schedules
- ✓ **Case study:** Solving scheduling challenges in a complex project
- ✓ **Final project:** Creating and presenting a CPM-based schedule

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Critical Path Method (CPM) in Project Scheduling

Confirmed Sessions

| FROM | TO | DURATION | FEES | LOCATION |
|----------------|----------------|----------|------------|------------------|
| March 14, 2027 | March 18, 2027 | 5 days | 4250.00 \$ | KSA , Al Khobar |
| April 26, 2027 | April 30, 2027 | 5 days | 4250.00 \$ | UAE , Dubai |
| July 20, 2026 | July 24, 2026 | 5 days | 4950.00 \$ | England , London |
| Dec. 28, 2026 | Jan. 1, 2027 | 5 days | 4250.00 \$ | UAE , Dubai |

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