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Project Management – Scheduling & Planning

PIK787-0327 SWT-G-1

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Place	: Geneva	**Venue**	: Radisson Blu Style Hotel (Wien, Herrengasse 12, 1010, Vienna - AUSTRIA) - TBC		
Start Date	: 01-03-2027	**End Date**	: 05-03-2027	**PPP**	: £5150

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If you can't train them, you can't blame them!

Short Description:

COURSE OVERVIEW The Project Scheduling and Planning program is structured to provide participants with essential skills and knowledge for effective project management. This program emphasises the importance of planning and scheduling in the successful execution of projects. By engaging in practical exercises and analysing case studies, participants will develop a deeper understanding of project dynamics and the various factors that influence project outcomes. Moreover, the program aims to enhance participants' abilities to manage projects within defined timelines and budgets. The focus on real-world applications ensures that learners can apply theoretical concepts to practical scenarios. By the end of the program, participants will be equipped with the necessary tools to navigate the complexities of project management, ultimately leading to more successful project completions.

Course Overview:

COURSE OBJECTIVES

At the end of this program, participants will be able to:

- Gain knowledge of techniques for resource planning and control.
- Understand time-cost trade-offs and manage project documentation and reporting.
- Identify sources of risk and develop effective performance monitoring and control systems.
- Create project network diagrams for CPM and advanced PERT calculations to identify schedule and cost risks.
- Explore strategies for time-cost trade-offs and risk minimization.
- Administer project documentation and reporting to maintain momentum.
- Implement advanced techniques for project performance and delivery control.

TARGET AUDIENCE

- Project Managers seeking to enhance their skills.
- Cost Estimators aiming for accurate project budgeting.
- Project Schedulers looking to optimise timelines.
- Designers involved in project development.
- Planners focused on effective resource allocation.
- Senior Managers interested in best practices for project management.
- Professionals eager to improve project outcomes and efficiency.

Program Outline:

DAY 1: Project Scope Planning and Definition (Fundamentals)

1. Scope Planning and Scope Execution Plan.
2. Work Breakdown Structures (WBS), and packages.
3. Statement of Work (SOW) - Technical Baseline.

4. Triple Constraints - Time Cost, Scope.
5. Project Quality Issues, Risk Analysis, Deliverables and Resource Requirements.

DAY 2: Project Schedule Planning and Critical Path Method

1. Precedence Network Diagramming and Job Logic Relationship Chart.
2. Critical Path Analysis and Project Float Analysis.
3. Lead and Lag Scheduling and Activity Duration Estimation.
4. Milestone Charts and Gantt Chart - Schedule Baseline.
5. Production and Productivity Planning with Project Estimating Processes.

DAY 3: Resource Allocation and Resource Levelling

1. Efficient Management of Resources and Resource Allocation.
2. Planning and Scheduling Limited Resources with Resource Levelling Techniques.
3. Prioritising Resources with Allocation Algorithms and the Brooks Method.
4. Addressing Resource Contention and Interruptions to the Schedule.
5. Increasing Workforce and Scheduling Overtime to Meet Project Demands.

DAY 4: Accelerating The Project Schedule

1. Circumstances Requiring Project Acceleration and Time-Cost-Scope Trade-offs.
2. Strategies for Project Time Reduction and Direct vs. Indirect Project Costs.
3. Options for Accelerating the Schedule and Techniques for Crashing the Schedule.
4. Utilising Gantt Charts for Accelerated Schedules and Analysing Network Activity Risk Profiles.
5. Considering Multiple Critical Paths and Strategies for Project Cost Reduction.

DAY 5: Project Contingency Planning

1. Program Evaluation and Review Technique (PERT) and Path Convergence Analysis.
2. Strategies for Solving the Path Convergence Problem and Understanding Network Risk Profile Types.
3. Exploring Normal Distribution and PERT Probability with Standard Deviation Formulae.
4. Calculating Standard Deviation and its Application to Critical Paths.
5. Application of PERT in Estimating Project Duration and Mitigating Risks.