



Project Planning, Scheduling, and Cost Estimating Skills Conference

29 Nov - 10 Dec 2026
Amman (Jordan)



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Ref.: 8262_254090 **Date:** 29 Nov - 10 Dec 2026 **Location:** Amman (Jordan) **Fees:** 5500 Euro

Introduction:

Late project delivery has become the scourge of project professionals worldwide. Countless projects undertaken by organizations in the private and public sectors significantly overrun the project schedule and budget and, consequently, fail to achieve the organization's financial and strategic objectives, often with sizable increases in costs and substantial financial losses. Why?

This project planning, scheduling, and cost estimating skills conference is due mainly to the failure of many project professionals to successfully apply modern project planning, scheduling, and control tools to their projects. Likewise, developing reliable cost estimates during a proposed project's design and early conceptual stages is critical to its success.

The decision to proceed with a project is often based almost exclusively on early conceptual cost estimates, and these estimates provide the basis for the cash flow projections and forecasts used during the project feasibility study. Unreliable cost estimates can result in significant cost overruns later in the project life when it is too late to contain them.

In addition to the potential financial losses suffered by the organization, many such projects fail to deliver the required quality of outcomes intended for the project as a direct consequence of poor estimating. Budgeting inaccuracies inevitably result in lower-quality workmanship and materials.

The Importance of Project Planning, Scheduling, and Cost-Estimating Skills:

Project planning, scheduling, and cost-estimating skills are essential for successful execution. Planning sets the foundation; scheduling ensures efficiency and cost estimation prevents budget overruns. Together, they drive project success.

The estimating techniques and processes covered in this project planning, scheduling, and cost-estimating skills conference will provide delegates with the necessary skills to forecast accurately the anticipated costs of projects with a focus on budget estimates, estimates for pre-construction services, estimating contractor and subcontractor work, estimating general conditions, pricing self-performed work, estimating negotiated contracts, and performing lump sum and unit-price estimates.

This project planning, scheduling, and cost-estimating skills conference will significantly enhance delegates' skills and knowledge and improve their ability to properly plan and schedule their projects, perform estimates at both the conceptual and detailed levels, and compare feasible alternatives quickly and efficiently.

Targeted Groups:

- Project Managers.
- Project Cost Estimators.
- Cost Controllers.
- Project Planners.
- Contract Professionals.
- Project Procurement Staff.
- Individuals interested in Project Initiation, Project Estimating and Budgeting, and Development.

Conference Objectives:

At the end of this project planning, scheduling, and cost-estimating skills conference, the participants will be able to:

- Integrate scope, time, resources, and cost management into a dynamic, manageable plan.
- Develop project network diagrams for CPM and advanced PERT calculations to identify schedule and cost risks.
- Maintain continuous project performance and delivery control.
- Estimate and allocate project costs and resources.
- Measure, forecast, and control project performance by employing earned value techniques.
- Accelerate the schedule when required by adverse circumstances.
- Manage and mitigate schedule, cost, scope, and resource risks associated with the project.
- Develop a line of balance schedules and velocity diagrams for repetitive or recurring work.
- Benefit from the financial effects of the learning curve on recurring work.
- Develop a project recovery plan for budget and schedule overruns.
- Produce clear and concise project progress reports.
- Integrate all relevant project elements into a cohesive and comprehensive cost estimate.
- Prepare budget estimates that will enable the owner-organization to make informed decisions as to the feasibility of a potential project.
- Compare the costs of alternative strategies or technical approaches to ensure the most economical project at the desired quality level.
- Structure of the contract compensation arrangement to provide the highest level of incentives to complete the project on schedule and within the determined budget.
- Keep accurate control of the progressive budgeting process based on the various design stages.
- Prepare accurate budget estimates through the programming phase, the schematic design phase, and finally, the design development phase.
- Understand the most appropriate contracting structure to ensure the desired project results.
- Apply proper risk analysis to mitigate risks at minimal costs effectively and to determine appropriate contingencies for residual risks.
- Obtain the skills required to prepare and manage the bidding process.
- Prepare lump-sum, unit-price, cost plus, and time-and-materials estimates and contracts.

Targeted Competencies:

At the end of this project planning, scheduling, and cost-estimating skills conference, the target competencies will be able to:

- Know the ability to deliver projects on time and within budget.
- Understand what it takes to be a successful project manager.
- Skill and confidence to plan and control projects successfully and sidestep the most common project management pitfalls and problems.
- Learn about appreciation of the philosophy, framework, standards, and approaches to the delivery of the projects.
- Understand and practice effective project management techniques when completing and handing over projects.
- Develop an initial project budget for the owner.
- Determine project feasibility.
- Design the project within the owner's budget.
- Evaluate alternative design concepts and project components.
- Prepare bids.
- Prepare cost proposals.
- Establish project budgets.
- Determine the cost impacts of change orders.
- Substantiating claims and resolving disputes.
- Preparing a Schedule of Values.
- Create historical cost databases to improve future estimating accuracy.

Conference Content:

Unit 1: Project Scope Planning and Definition Fundamentals:

- Scope Planning.
- Work Breakdown Structures WBS.
- Work Packages.
- Statement of Work SOW - Technical Baseline.
- Scope Execution Plan.
- Triple Constraints - Time, Cost, Scope.
- Project Quality Issues.
- Project Risk Analysis.
- Project Deliverables.
- Resource Requirements.

Unit 2: Project Schedule Planning and Critical Path Method:

- Precedence Network Diagramming.
- Job Logic Relationship Chart.
- Critical Path Analysis.
- Project Float Analysis.
- Lead and Lag Scheduling.
- Activity Duration Estimation.
- Milestone Charts.
- Gantt Chart - Schedule Baseline.
- Project Estimating Processes.
- Production and Productivity Planning.
- Resource and Cost Allocation.

Unit 3: Resource Allocation and Resource Levelling:

- Management of Resources.
- Planning and Scheduling Limited Resources.
- Resource Allocation Algorithms for Resource Prioritisation.
- Solving Resource Contention.
- Resource Leveling when Project Duration is Fixed.
- The Brooks Method of Resource Allocation.
- Increasing the Workforce.
- Solving Interruptions to the Schedule.
- Scheduling Overtime.

Unit 4: Accelerating the Project Schedule:

- Circumstances Requiring Project Acceleration.
- Time-Cost-Scope Trade-off.
- Project Time Reduction.
- Direct Project Costs.
- Indirect Project Costs.
- Options for Accelerating the Schedule.
- Crashing the Schedule - How?
- Pre-Accelerated Schedule.
- Developing a Crash Cost Table.
- Acceleration in Practice.
- The Optimal Acceleration Point.
- Gantt Chart for Accelerated Schedule.
- Network Activity Risk Profiles.
- Additional Considerations.
- Multiple Critical Paths.
- Project Cost Reduction.

Unit 5: Project Contingency Planning:

- Program Evaluation and Review Technique PERT.
- Path Convergence Analysis.
- Solving the Path Convergence Problem.
- Network Risk Profile Types.
- Normal Distribution.
- PERT, Probability, and Standard Deviation Formula.
- Calculating the Standard Deviation.
- Standard Deviation for Critical Path.
- Z-Values: The Probability of Project Completion at a Required Date.
- True Critical Path.
- Network Activity Risk Profiles.
- Application: Estimating Project Duration.

Unit 6: Line of Balance Scheduling - The Planning of Recurring Activities:

- Preparing a Line of Balance Schedule.
- Velocity Diagrams and Linear Scheduling.
- Velocity Diagram Production Rate Calculations.
- Linear Sequence of Activities as a Series of Velocity Diagrams.
- Balancing the Schedule.
- Calculations for a Line of Balance Schedule.
- Line of Balance Formulae.
- Target Units per Week.
- Determining Crew Size.
- Actual Rate of Output.
- Time to Complete One Activity.
- Elapsed Time for Recurring Activity.
- The slope of the Line from Activity Start to Activity Finish.
- Balanced Project Schedule without Buffers Finish-Start.
- Inserting Buffers.
- Comparison of Unbalanced with Balanced Schedules.
- Measuring Planned Progress on Schedule.
- Velocity Diagram Reflecting Expected Conditions.
- Actual Progress and Work Conditions.
- Variable Conditions.

Unit 7: Project Execution Management, Control and Reporting:

- Progress Tracking and Monitoring.
- Project Cost Management.
- Earned Value Control Process.
- Schedule Variances.
- Cost Variances.
- Progress Control Charts - Trend Analysis.
- Schedule and Cost Variance Forecasting.
- Labour Management and Cost Control.
- Materials Management and Cost Control.
- Earned Value Analysis.
- Earned Value Reporting.

Unit 8: Project Recovery Plan Development:

- Project Variance Analysis and Quantification.
- Schedule Performance Index SPI.
- Cost Performance Index CPI.
- Setting Schedule and Cost Control Limits.
- Project Recovery Data Assessment.
- Schedule and Cost Recovery Analysis.
- Schedule and Cost Recovery Plan.
- Project Recovery Baselines and Controls.

Unit 9: Cost Estimating Basics:

- The estimated life cycle.
- Phases of the Design Process.
- Programming phase.
- Schematic design.
- Design development.
- Construction documents.
- Estimate accuracy by phase.
- Conceptual Cost Estimates.
- Rough Order of Magnitude Estimates Broad Scope Estimates.
- Assemblies cost estimates.
- Cost indices.
- Semi-detailed Estimates Narrow Scope Estimates.
- Definitive Estimates Detailed Scope Estimates.
- Basic procedures.
- Lump-sum contracts.
- Unit-price contracts.
- Cost-plus contracts.
- Cost-plus Contract with the Guaranteed Maximum Price GMP.
- Time-and-materials contracts.
- Bid method.
- Negotiated method.
- Quantity take-off.
- Types of Construction Contracts.
- Procurement methods.
- Pre-construction services.
- Risk Analysis and Contingencies.

Unit 10: Broad Scope Cost Estimating Techniques:

- Adjustments to Project Cost for Broad Scope Estimates.
- PERT Project Cost Analysis.
- PERT Unit Cost Estimates.
- Formulae for Cost Estimating.
- The Normal Distribution Curve.
- Z-Value Table.
- The Probability of Project Completion Within Budget.
- Estimating Project Unit Cost by Using the Standard Deviation.
- Estimating the Project Unit Cost at a Required Probability.
- The Probability of Completing the Project at a Required Cost.
- PERT vs. Standard Deviation & Z-Values.
- Adjustments to Estimates Based on Previous Projects.
- Adjustments for Time.
- Review: Future Value of Money.
- Review: Present Value of Money.
- Equivalent Annual Interest Rate.
- Index to Adjust for Time.
- Equivalent Compound Interest.
- Location Index for Construction.
- Adjustments for Location.
- Adjustments for Size.
- Combined Adjustments.
- Economic Price Adjustment.
- Estimate Durations based on the Learning Curve Effect.
- Estimating Costs Based on the Learning Curve Effect.
- Unit-Cost Adjustments.
- Learning Curves.

Unit 11: Budget Estimating Process:

- Estimate by design phase.
- Programming budget estimates.
- Schematic design budget estimates.
- Design development budget estimates.
- Estimate pre-construction services.
- Request for proposal.
- Development of pre-construction services estimate.
- Pre-construction services contract.
- Budget control log.

Unit 12: Bid Contract Estimating Process:

- Pre-estimate activities.
- Estimate process.
- Solicitation of lump-sum bids.
- Order-of-Magnitude estimates.
- Work Breakdown Structure.
- Estimate team.
- Schedule the estimating work.
- Subcontractors and Major Suppliers.
- Estimate forms.
- Accuracy and Error Prevention.
- Price self-performed work.
- Recap sheet.
- Materials.
- Labor.
- Apply pricing factors.
- Summary recap.
- Subcontractor work.
- Project summary schedule.
- Alternative techniques.
- Elements of the Estimate of the General Condition.
- Final document review.
- Complete the bid summary.
- Final mark-ups.
- Sales tax.
- Validate the estimate.
- Estimate subcontractor work.
- Estimating General Conditions.
- Complete the estimate.

Unit 13: Unit Price Estimates:

- Unit price bid forms.
- Direct cost estimation.
- Materials.
- Labor.
- Indirect labor.
- Subcontractors.
- Recap summary sheet.
- Direct-to-indirect cost factor.
- Mark-up determination.
- Variation-in-quantity contract provision.
- Risk analysis.
- Bid finalization.

Unit 14: Negotiated Contract Estimating:

- Guaranteed Maximum Price Estimates.
- Contract procurement process.
- Documents.
- Strategies.
- Estimate process.
- Contingencies.
- Fee determination for negotiated contracts.
- Reimbursable versus Non-reimbursable costs.
- Home office overhead.
- Risk evaluation.
- Fee structure.
- Cost savings split.
- Strategies for Responding to the Request for Proposal.
- Documents are to be included with the Request for Proposal.
- General Contractor interview and selection process.
- Negotiated subcontracts.
- Cost proposals for negotiated contracts.

Unit 15: Contract Types and Compensation Arrangements:

- Risk distribution in contracting.
- Project risk profiles.
- Contract types according to risk distribution.
- Fixed Price Contracts.
- Firm Fixed Price.
- Fixed Price with Economic Adjustment.
- Incentive Contracts.
- Fixed Price Incentive.
- Cost Plus Incentive.
- Cost Reimbursement.
- Cost Plus Award Fee.
- Cost Plus Fixed Fee.
- Cost-Plus Contracts.
- Time-and-Materials.

Unit 16: Narrow Scope Cost Estimating Techniques:

- Power-sizing Techniques Capacity Ratios.
- Factor estimates.
- Cost estimating relationships CER.
- Design-to-cost-estimates.
- Target cost estimates.
- Adjusting for Project Type and Quality Level.
- Features Determining the Quality Level Grade of a Structure.
- Adjusting for Quality Level by Using a Costing Publication.
- Economic Constraints.
- Parametric Cost Estimating.
- Analysis of Estimating Accuracy.



**Registration form on the :
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