



دورة تقدير تكلفة المشاريع: دورة متخصصة لهديري المشاريع



دورة تقدير تكلفة المشاريع: دورة متخصصة لهديري المشاريع

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Course Overview:

The course is a pivotal training designed to sharpen the cost estimation skills of engineering project managers. This course delves into various cost estimation techniques, methodologies, and best practices essential for executing projects within budget constraints. Participants will learn to accurately estimate costs related to labour, materials, equipment, and overhead, enabling informed decision-making and effective resource allocation. This program combines theoretical concepts with practical applications, ensuring a complete understanding of cost estimation in engineering projects.

Target Audience:

- Engineering Project Managers
- Project Engineers
- Cost Estimators

Targeted Organizational Departments:

- Engineering Project Management Directorate
- Project Management Office PMO
- Engineering Department
- Construction Department
- Procurement Department
- Finance Department
- Cost Control Department
- Estimation Department
- Planning Department
- Operations Department

Targeted Industries:

- Oil and Gas Sectors
- Construction Industry
- Renewable Energy Sector
- Manufacturing Industry
- Infrastructure Development Sector
- Power Generation and Distribution Sector
- Chemical and Petrochemical Industry
- Mining and Minerals Sector

Course Offerings:

By the end of this course, participants will be able to:

- Understand the importance of cost estimation in engineering project management. •
- Apply various cost estimation techniques and methodologies effectively. •
- Estimate labour, material, equipment, and overhead costs accurately. •
- Account for contingencies and manage project risks. •
- Develop complete cost estimation plans and baselines. •
- Monitor, control, and report project costs. •
- Make informed decisions based on reliable cost estimates. •
- Communicate cost estimation results to stakeholders effectively. •

Training Methodology:

This course employs a blend of theoretical and practical training methodologies. Participants will engage in interactive discussions, case studies, real-world examples, and hands-on exercises to solidify their understanding of cost estimation. The course emphasizes active learning through group work and feedback sessions, ensuring participants can apply what they learn in their professional environments.

Course Toolbox:

- Complete notes and handouts •
- Real-life case studies and examples •
- Cost estimation templates •
- Recommended reading materials and resources •

Course Agenda:

Day 1: Introduction to Cost Estimation

- Importance of Cost Estimation in Engineering Project Management Topic 1: •
- Key Principles and Concepts of Cost Estimation Topic 2: •
- Understanding the Project Life Cycle and Its Impact on Cost Estimation Topic 3: •
- Overview of Cost Estimation Techniques and Methodologies Topic 4: •
- Project Cost Management Overview Topic 5: •
- Introduction to Cost Estimation Software Tools Topic 6: •
- Discuss the day's learnings and review key points Reflection & Review: •



Day 2: Elements and Methods of Cost Estimation

- Identifying and Categorizing Project Costs Topic 1: •
- Direct Costs vs. Indirect Costs Topic 2: •
- Understanding Fixed Costs, Variable Costs, and Semi-Variable Costs Topic 3: •
- Factoring in Contingency and Risk Assessment Topic 4: •
- Top-Down vs. Bottom-Up Cost Estimation Approaches Topic 5: •
- Analogous Estimating and Parametric Estimating Topic 6: •
- Discuss the day's learnings and review key points Reflection & Review: •

Day 3: Estimating Labor, Material, and Equipment Costs

- Resource Allocation and Labor Requirements Topic 1: •
- Determining Labor Rates and Productivity Factors Topic 2: •
- Identifying and Quantifying Material Requirements Topic 3: •
- Sourcing and Pricing Materials Topic 4: •
- Analyzing Equipment Costs and Rental Considerations Topic 5: •
- Factoring in Inflation and Market Trends Topic 6: •
- Discuss the day's learnings and review key points Reflection & Review: •

Day 4: Advanced Estimation Techniques and Overhead Costs

- Three-Point Estimation Topic 1: •
- Utilizing Software Tools for Cost Estimation Topic 2: •
- Understanding Overhead Costs in Engineering Projects Topic 3: •
- Allocating Overhead Costs to Specific Activities Topic 4: •
- Estimating Indirect Labor Costs Topic 5: •
- Including Indirect Material and Equipment Costs Topic 6: •
- Discuss the day's learnings and review key points Reflection & Review: •

Day 5: Cost Estimation Documentation, Reporting, and Control

- Creating a Cost Estimation Plan Topic 1: •
- Developing a Cost Estimation Baseline Topic 2: •
- Monitoring and Controlling Project Costs Topic 3: •
- Presenting Cost Estimation Reports to Stakeholders Topic 4: •
- Making Informed Decisions Based on Cost Estimates Topic 5: •
- Final Review and Best Practices in Cost Estimation Topic 6: •
- Summarize the course learnings and review key points Reflection & Review: •

How This Course is Different from Other Cost Estimation Courses:

The course stands out by offering a highly practical and hands-on approach to cost estimation. Unlike other courses, this program integrates real-life case studies, and industry-specific examples to provide a complete training experience. Participants benefit from interactive discussions and group activities that foster a deeper understanding of cost estimation processes. The course is tailored specifically for engineering project managers, ensuring relevance and applicability in their professional roles. By the end of the course, attendees will possess the skills and confidence to execute cost estimation tasks effectively, making it a standout choice for professionals seeking to enhance their project management capabilities.



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روما - ايطاليا



دبي - الامارات العربية المتحدة



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جنيف - سويسرا



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عمان - المملكة الأردنية الهاشمية



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WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



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