Quality Management Fundamentals
Course Brochure

▶ **INDEX:**

1. Course Overview

Course: Introduction to Quality Management for Projects

Level: Practitioner

This course allows the candidate to demonstrate knowledge of Earned Value Management concepts, tools and techniques right from the planning and budgeting of the project through execution and reporting. The concept of the course is to introduce the participants to the principles of earned value management in order to obtain a better understanding of project evolution. They will be able to interpret the project status and understand the effects on the business case and final outcome of the project.

Eligibility requirements: There is no formal entry requirement to take this course. However, it's recommended that candidates have an intermediate level of understanding of project management basics, scheduling, budgeting and execution.

2. Course Duration

Course duration: 2.5 hours of on-demand video
This course will be delivered as a full online course and final test.

3. Learning Outcomes

By the end of this course you will be able to:
- Define and Calculate the EVM parameters Planned Value (PV), Earned Value (EV) and Actual Cost (AC)
- Report the project schedule and cost position using the EVM parameters
- Calculate the Schedule and Cost Variances and Indices and the Cost Schedule Index
- Determine the status of the project using different parameters
- Estimate the Cost at Completion, and Variance at Completion using different approaches and formulas
- Identify the problem using Schedule Variance
- Apply the Formulas on a Case Project

4. Course Syllabus

Module#	Module Description
1	**Introduction**
1.1	Course navigation
1.2	Opening Address to the Participants
1.3	Content and Learning Outcomes of the Course
1.4	Practial Arrangements
1.5	Recapitulation of Section 1
2	**Overview of quality management**
2.1	Introduction and Learning Objectives of Section 2
2.2	Defining Quality
2.3	Evolution of Quality
2.4	Quality Planning, Assurance, Control and Improvement
2.5	Quality Standards and Methods
2.6	Total Quality Management
2.7	Quality Effect and Cost
2.8	Tolerances and Product conformity
2.9	Basic Statistics for Quality Management
2.10	Statistical Sampling
2.11	Six Sigma
2.12	Kaizen
3	**7 Basic Tools for Quality Management**
3.1	Introduction and Learning Objectives of Section 3
3.2	Introducing the 7 Basic Tools for Quality Management
3.3	Tools for Generating Ideas
3.4	Tools for Organizing the Data
3.5	Tools for Identifying Problems
4	**Overview of PMI Quality Management Processes**
4.1	Introduction and Learning Objectives of Section 4
4.2	Quality Management for Projects
4.3	Plan Quality Management
4.4	Manage Quality
4.5	Control Quality
5	**Tools and Techniques for Project Quality Management**
5.1	Introduction and Learning Objectives of Section 5
5.2	Overview of Tools and Techniques for Quality Management
	Data Gathering Techniques
5.4	Data Analysis
5.5	Data Representation
5.6	Decision Making, Design for X or DfX, Problem Solving

6	Review and Final Test
6.1	Introduction and Learning Objectives of Section 8
6.2	Quick Review Section 2 - Overview of Quality Management
6.3	Quick Review Section 3- 7 Basic Tools of Quality Management
6.4	Quick Review Section 4- Overview of PMI Quality ManagementProcesses
6.5	Quick Review
6.6	Request for Feedback

5. Intended Audience

This course is intended for those who are interested in augmenting or brushing up their earned value management skills and knowledge. Potential course audience would be planners, schedulers, cost engineers, contract administrators, project managers, reporting engineers, project control professionals and all those professionals who are associated with the project management.

Project Managers having a PMP, CAPM or other equivalent certificate can use the course to claim 2.5

PDUs in the following categories: technical – 2 PDUs, strategic and business – 0.25 PDUs, leadership – 0.25 PDUs.

Note – Our course brochures are updated on a regular basis for continuous improvement