

Course Content

Day I

- Introduction
- History of Project Management & Introduction to PMI
- PMP credential prerequisites and application process
- PMP exam pattern and domain wise breakup of questions
- Road map to achieve the credential
- Details of the PMBoK Guide
- Project Management Framework
- What, Why, & How? about projects
- Organization categories (Functional, Weak, Balanced, Strong Matrix, Projectized)
- Project Management lifecycle
- Difference between project, program, portfolio
- Difference between Project & Operation
- PMO & its categories
- Business Process & 49 PM Processes of the PMBoK Guide
- Outline of 10 Knowledge Areas and 5 PM domains (PM Process Groups)

Day II

- Factors influencing the Project (Enterprise Environment Factors, Organization Process Assets, & Stakeholders)
- Project Initiation
- Project Charter
- Identifying Stakeholders
- Group creativity techniques
- Group decision making techniques
- Requirement management
- RTM
- Requirement Analysis
- Scope definition
- Work Break-down Structure

Day III

- Activity definition
- Milestones
- Activity sequencing
- Sequence relationships (FS, LL, FF, SF)
- Constraints (ASAP, ALAP, SNET, FNET)
- Bottom-up estimation
- Parametric estimation
- Analogous estimation
- 3 Point estimation
- Standard Deviation (Sigma) & Probability
- Critical path method
- Cost estimation
- Contingency & Management reserves
- Cost Baseline
- Project budget
- Resource estimation
- Communication planning
- Communication models and types
- Communication technology & channels

Day IV

- Quality planning
- Quality and grade
- Cost of Quality
- 7 Quality tools
- Quality assurance and quality control
- Pareto Charts & Control Charts
- Project opportunities and threats
- Risk Identification & RBS
- Risk probability and impact analysis

- Risk ranking
- FMEA (Failure Modes & Effects Analysis)
- Expected Monetary Value

Day V

- Make vs. Buy
- RFI, RFP, RPQ
- Fixed bid, T&M, Cost reimbursable contracts
- Salience model
- Project Management Plan
- Project kick-off
- Team management and motivation theories (Maslow's Theory, Vroom's Theory, McClenand's Theory, Theory X/Y/Z)
- Project information flow
- Deliverable journey
- Scope verification
- Scope validation

Day VI

- Change management
- CCB (Change Control Board) and its authority
- Earned Value Management
- CPI, SPI, SV, CV
- BAC, EAC (3 scenarios), & VAC
- TCPI
- Residual and Secondary Risks
- Vendor/procurement -control and closure

- Project lessons learned registry
- Formal project closure/transition to ops / maintenance
- PMP exam strategy & planning
- PMP exam environment
- Credential maintenance (CCRS)
- Mock tests and analysis