Curriculum for Technology Project Management Certificate

Program Overview

The Technology Project Management Certificate program is designed to equip professionals with the skills, techniques, and knowledge needed to manage technology-based projects effectively. The program combines theoretical frameworks with practical applications, including best practices and tools specific to the technology sector.

Duration

- 16 weeks (4 months)

Modules

Week 1-2: Introduction to Project Management
Day 1: Program Overview
 - Course Introduction and Expectations
Day 2-5: Fundamentals of Project Management
 - Project Life Cycle
 - Project Stakeholders
 - Importance of Project Management in Technology

Week 3-4: Project Initiation and Planning
Day 1-3: Project Charter
 - Elements and Importance
Day 4-5: Project Planning
 - Work Breakdown Structure (WBS)
 - Gantt Charts

Project 1: Develop a Project Charter and Plan

Week 5-6: Scope and Requirements Management
Day 1-2: Defining Project Scope
 - Scope Statement, Deliverables
Day 3-5: Managing Requirements
 - Business, Functional, and Technical Requirements
Project 2: Create a Scope and Requirements Document

Week 7-8: Time and Cost Management
Day 1-2: Estimation Techniques
 - PERT, CPM
Day 3-5: Budgeting and Cost Control
 - Cost Estimation, Monitoring
Project 3: Develop a Project Schedule and Budget

Week 9-10: Quality Management
Day 1-3: Quality Standards and Benchmarks
 - ISO, Six Sigma
Day 4-5: Quality Assurance and Control
 - Testing, Audits
Project 4: Develop a Quality Management Plan

Week 11-12: Risk and Issue Management
Day 1-2: Risk Identification
 - SWOT Analysis, Risk Register
Day 3-5: Risk Mitigation
 - Risk Response Planning
Project 5: Create a Risk Management Plan

Week 13-14: Communications and Stakeholder Management
Day 1-3: Communication Channels and Tools
 - Reports, Meetings
Day 4-5: Stakeholder Analysis and Management
 - Power/Interest Grid
Project 6: Develop a Communication and Stakeholder Plan

Week 15: Agile and Scrum Framework
Day 1-5: Agile Principles
 - Scrum Framework, Sprints, Product Backlog
Project 7: Apply Agile Principles to a Mock Project

Week 16: Review and Final Examination
Day 1-3: Review of All Modules
 - Q&A, Exam Preparations
Day 4-5: Final Examination
 - Written Exam, Project Evaluations

Grading
- Quizzes: 25%
- Weekly Assignments: 35%
- Projects: 30%
- Final Exam: 10%

Prerequisites
- Basic understanding of project management concepts
- Familiarity with technology domains is advantageous but not required

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Materials
- Lecture Notes and Slides
- Case Studies
- Sample Project Documents
- Recommended Reading List

Certification
Upon successful completion of the program, students will be awarded a Technology Project Management Certificate, validating their skillset in managing technology projects effectively.