



Course Description

CTS2148C | IT Project Management | 4.00 credits

This course prepares students to effectively plan, implement, coordinate and manage small to medium size information technology-related projects. The concepts and tools covered in this course offers practical knowledge on managing project scope, planning and scheduling, risk assessment, and identification of project resources. This course also prepares students for the CompTIA Project+ examination, an industry standard IT certification.

Course Competencies:

Competency 1: The student will demonstrate an understanding of IT Project Integration Management by:

1. Developing an IT project management plan
2. Understanding the steps and processes needed to execute an IT project management plan
3. Learning concepts to perform integrated change control tools and techniques
4. Discuss problem-solving in the design and implementation of a solution to problems such as interpersonal, skill deficits, and productivity problems, to mention a few

Competency 2: The student will demonstrate an understanding of IT Project Scope Management by:

1. Understanding project scope definition
2. Describing project initiation
3. Learning concepts related to scope planning
4. Understanding scope verification
5. Understanding scope change control

Competency 3: The student will demonstrate an understanding of IT Project Time Management by:

1. Defining project activities
2. Describing the sequence of activities as part of the planning process
3. Estimating activity duration
4. Developing project schedules based on realistic timeframes and resource restraints
5. Understanding the function of monitoring once plans and schedules are implemented
6. Controlling as a function to ensure the objectives of a project are met
7. Describing terminology and tools used in project planning and monitoring, such as deliverables, milestones, due dates, work breakdown structure, activities, or tasks

Competency 4: The student will demonstrate an understanding of the importance of IT Project Cost Management by:

1. Planning for project resources
2. Estimating project costs over its life cycle
3. Establishing budgets for IT project costs
4. Describing the process of maintaining effective cost control

Competency 5: The student will demonstrate an understanding of IT Project Quality Management by:

1. Planning for project quality
2. Describing the role of coordinated plans and systematic IT controls for maintaining quality assurance
3. Identifying established technical specifications for the project and understanding how to compare to project results as a process for quality control

Competency 6: The student will demonstrate an understanding of IT Project Human Resource Management by:

1. Learning foundational principles that help IT project managers engage in organizational planning
2. Understanding the role of defining IT and other skill sets needed for the team and implementing staff acquisition
3. Describe the role of team building and skills that may be used throughout the project to accomplish project goals

4. Learning to apply communication skills that convey project needs to a team and address possible disagreements within the team and other groups

Competency 7: The student will demonstrate an understanding of IT Project Communication Management by:

1. Develop a simple project communications plan for stakeholders that addresses frequency, format, recipients, and responsible parties
2. Understanding the impact of poor communication on an IT project's success
3. Identifying various tools and techniques for reporting performance
4. Administrating project closure communications

Competency 8: The student will demonstrate an understanding of IT Project Risk Management by:

1. Defining the risk management process for an IT project's life cycle
2. Identifying and describing features and factors of an IT project that may require risk response
3. Modeling a project analysis for assessing risk and proposing risk response planning
4. Gaining an understanding of strategies used to monitor and control risk
5. Learning concepts to analyze risks using qualitative methods
6. Learning concepts to analyze risks using quantitative methods

Competency 9: The student will demonstrate an understanding of IT Project Procurement Management by:

1. Demonstrating an understanding of elements in a purchase and acquisitions plan
2. Understanding the alignment of contracts/ procurement to early project plan phases
3. Learning various factors contingent on corporate/organizational policy for using and selecting contractors.
4. Acquiring a basic understanding of requesting vendor responses and selecting vendors
5. Learning the essentials of contract risk assessment and procurement/contract negotiations
6. Learning basic steps to close out a contract properly
7. Acquiring an understanding of the necessity to retain records for reference and corporate/organization policy surrounding record retention

Learning Outcomes:

- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information
- Use computer and emerging technologies effectively