Course Competency

CTS 2148C IT Project Management

Course Description

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. (3 hr. lecture, 2 hr. lab)

Course Competency	Learning Outcomes
Competency 1: The student will demonstrate an understanding of IT Project Integration Management by:	1. Numbers / Data 2. Critical thinking 3. Information Literacy 4. Computer / Technology Usage 5. Aesthetic / Creative Activities 6. Communication
1. Developing an IT project management plan; 2. Understanding steps and processes needed to execute an IT project management plan; 3. Learning concepts to perform integrated change control tools and techniques; 4. Discussing 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. Communication 2. Critical thinking 3. Computer / Technology Usage
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. Communication 2. Critical thinking 3. Computer / Technology Usage
1. Defining project activities; 2. Describing sequence of activities as part of the planning process; 3. Estimating activity duration; 4. Developing project schedules based on realistinc timeframes and resources rentraints; 5. Understanding the function of monitoring once plans and schedules are implemented; 6. Controling 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. Numbers / Data 2. Critical thinking 3. Computer / Technology Usage
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. Critical thinking 2. Information Literacy 3. Computer / Technology Usage
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. Communication 2. Critical thinking 3. Information Literacy 4. Ethical Issues
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. Describing the role of team building and skills that may be used over the period of the project to accomplish project goals; 4. Learning to apply communication skills that convey's project needs to a team and addresses possible disagreements within the team and other groups.	
Competency 7: The student will demonstrate an understanding of IT Project Communication Management by:	1. Communication 2. Critical thinking 3. Information Literacy
1. Developing a simple project communications plan to stakeholders that addresses frequency, format, recipients, and responsible parties; 2. Understanding the impact that poor communications has on the success of an IT project; 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. Numbers / Data 2. Critical thinking 3. Communication 4. Information Literacy 5. Ethical Issues 6. Computer / Technology Usage
1. Defining 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 understaning of strategies used to monitor and control risk; 5. Learning concepts to analyse risks using qualitative methods; 6. Learning concepts to analyse risks using quantitative methods.	
Competency 9: The student will demonstrate an understanding of IT Project Procurement Management by:	1. Communication 2. Critical thinking 3. Numbers / Data
1. Demonstrating an understanding of elements in a purchase and acquisitions plan; 2. Understanding the alignment of contracts/procurement to early phases of a project plan; 3. Learning various factors that are contingent on corporate/organizational policy for the planning of 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 properly close out a contract;	

7. Acquiring an understanding of the necessity to retain records for reference and corporate/organization policy surrounding record retention.	

Updated: FALL TERM 2021