CSC303 Software Engineering II Process Audit Checklist

Project Planning

	Compliance	Comments
Establish Estimates		
Establish a top-level work breakdown structure (WBS)		
to estimate the scope of the project.		
Establish and maintain estimates of the attributes of		
the work products and tasks.		
Define the project lifecycle phases on which to scope		
the planning effort.		
Estimate the project effort and cost for the work		
products and tasks based on estimation rationale.		
Develop a Project Plan		
Establish and maintain the project's budget and		
schedule.		
Identify and analyze project risks.		
Plan for necessary resources to perform the project.		

Project Monitoring and Control

	Compliance	Comments
Monitor Project Against Plan		
Monitor the actual values of the project planning		
parameters against the project plan.		
Monitor risks against those identified in the project		
plan.		
Periodically review the project's progress,		
performance, and issues.		
Review the accomplishments and results of the project		
at selected project milestones.		
Manage Corrective Action to Closure		
Collect and analyze the issues and determine the		
corrective actions necessary to address the issues.		
Take corrective action on identified issues.		
Manage corrective actions to closure.		

Configuration Management

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	Compliance	Comments
Establish Baselines		
Identify the configuration items, components, and related work products that will be placed under configuration management.		
Establish and maintain a configuration management and change management system for controlling work products.		
Create or release baselines for internal use and for delivery to the customer.		
Track and Control Changes		
Track change requests for the configuration items.		
Control changes to the configuration items.		

Requirements Management

	Compliance	Comments
Manage Requirements		
Manage changes to the requirements as they evolve during the project.		
Maintain bidirectional traceability among the requirements and work products.		

Verification and Validation

	Compliance	Comments
Prepare for Verification		
Select the work products to be verified and the		
verification methods that will be used for each. (test plan)		
Establish and maintain the environment needed to support verification		
Establish and maintain verification procedures and criteria for the selected work products. (test cases)		
Perform Peer Review		
Prepare for peer reviews of selected work products. (review checklist)		
Conduct peer reviews on selected work products and identify issues resulting from the peer review.		
Verify Selected Work Products		
Perform verification on the selected work products. (test report)		
Analyze the results of all verification activities.		

Measurement and Analysis

	Compliance	Comments
Align Measurement and Analysis Activities		
Specify how measurement data will be obtained and stored, analysed and reported		
Provide Measurement Results		
Obtain specified measurement data.		
Report results of measurement and analysis activities to all relevant stakeholders.		

Process and Product Quality Assurance

	Compliance	Comments
Objectively Evaluate Processes and Work Products		
Objectively evaluate the designated performed processes and work products against the applicable process descriptions, standards, and procedures.		
Provide Objective Insight		
Communicate quality issues and ensure resolution of noncompliance issues with the staff and managers.		