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The importance of software engineering reviews and audits conducted and performed for software companies & institutions

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Software Engineering Reviews and Audits provide the framework and detailed requirements for verifying software development efforts for software companies and institutions. Performing reviews and audits that are successful will ensure achievement in all specified requirements in software usability, test and released configuration baselines to customers. These reviews and audits will improve the individual and team efforts in maintaining a professional setting where software is developed for profit, cost reduction, and service quality improvement. This topic will not answer every question due to the fact that many questions are still being asked, but will provide the ideas and solutions to consider, for being successful in the software world. Performing quality engineering reviews and audits will provide the necessary feedback to companies and institutions on how they can improve their processes. The emphasis of these software disciplines are key roles for performing effective software engineering reviews and audits. The elements that should be understood are an understanding of defined plans for software development life-cycles and software quality evaluations performed.

There are times when ideas, suggestions, standards, and concepts are adopted to improve software management performance, software development, supplier deliveries, customer expectations, and the quality of those efforts. When it is time to perform software engineering reviews and audits, the following questions are asked:

- What are the requirements?
- Who needs to participate?
- What are the expected results?

Process models support the performance of software engineering reviews and audit activities. Many software technology institutes have told me that process models have nothing to do with performing these reviews and audits. Personally, the process model is beneficial for software auditors to utilize when it is time to conduct and perform scheduled software engineering reviews and audit activities.

Biography

Boyd L Summers has completed his Bachelor of Science (BS), Business Administration at Weber State University, USA. His areas of emphasis are: information systems, production and operations management, quantitative analysis and methods, human resources, economics, business management and statistical analysis and computer science. He is currently working as a Software Engineer - Quality for The Boeing Company and a Software Technology Consultant for BL Summers Consulting LLC located in Seattle, Washington. With 30 years of experience in Software Engineering and a leader of multiple software development teams, he continues to solve complex technical challenges to ensure that system and software engineering problems are addressed, resolved and compliant. He is the author of the two software technology books titled; "Software Engineering Reviews and Audits." and "Effective Methods for Software and Systems Integration. He is also a Software Technology Speaker at conferences and a member of the American Society Quality (ASQ).

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