Maps between the 2016 CSQE BOK and the previous BOK

The Certified Software Quality Engineer (CSQE) body of knowledge (BOK) has recently undergone an update so that the most current knowledge areas are tested in the examinations. If you would like more information on the process of updating a BOK, the process is explained on page 4 in the <u>Certification Handbook</u> (pdf 228 KB).

Part of the updating process is to conduct a job analysis survey to determine whether the current topics in the BOK are still relevant to the job role of software quality engineers and to identify any new topics that have emerged in the since the BOK was last updated. The results of the CSQE job analysis survey showed that all of the topics that were in the previous BOK are still relevant to the job roles of software quality engineers currently. However, a few new topics were added to the previous BOK because of changing industry needs. These new topics are highlighted on the following pages.

This document contains one BOK map presentation that follows the new 2016 BOK order (outline and subtext) and the 1st column shows where the material was covered in the previous BOK. In addition, the table contains a 3rd column that highlights the new elements being introduced in the 2016 BOK.

The 2016 BOK mapped to the previous BOK

The 2016 BOK will first be used in the June 4, 2016 administration. Both BOKs will be available online until after the December 5, 2015 exam is administered, at which time the previous BOK will be removed.

| | TABLE 1: 2016 BOK & NEW TOPICS | |
|----------|--|--------------------------------------|
| Previous | | |
| BOK area | 2016 BOK Topic Heading | New Elements in 2016 BOK |
| | I. General Knowledge (16 questions) | |
| I.A.1 | A. Benefits of software quality engineering within the organization | |
| | Describe the benefits that software quality engineering can have at the organizational | |
| | level. (Understand) | |
| | B. Ethical and Legal Compliance | |
| I.B.1 | 1. ASQ code of Ethics for professional conduct | |
| | Determine appropriate behavior in situations requiring ethical decisions, including | |
| | identifying conflicts of interest, recognizing and resolving ethical issues, etc. | |
| | (Evaluate) | Compliance to follow harding hard |
| I.B.2 | 2. Regulatory and legal issues | Compliance to rederal, national, and |
| | on software development. Determine the impact that issues such as convright | statutory regulations |
| | intellectual property rights product liability and data privacy (Understand) | |
| I.C | C. Standards and models | The CMMI was broken down into the |
| | Define and describe the ISO 9000 and IEEE software standards, and the SEI Capability | three different models |
| | Maturity Model Integrated (CMMI) for Development, Services, and Acquisition | |
| | assessment models. (Understand) | |
| | D. Leadership skills | |
| I.D.1 | 1. Organizational leadership | |
| | Use leadership tools and techniques, (e.g. organizational change management, | |
| | knowledge-transfer, motivation, mentoring and coaching, recognition.) (Apply) | |
| I.D.2 | 2. Facilitation skills | |
| | Use facilitation and conflict resolution skills as well as negotiation techniques to | |
| | manage and resolve issues. Use meeting management tools to maximize meeting | |
| | effectiveness. (Apply) | |

| | TABLE 1: 2016 BOK & NEW TOPICS | |
|----------------------------|--|--|
| Previous | | |
| BOK area | 2016 BOK Topic Heading | New Elements in 2016 BOK |
| I.D.3 | 3. Communication skills | |
| | Use various communication methods in oral, written, and presentation formats. Use | |
| | various techniques for working in multi-cultural environments, and identify and | |
| | describe the impact that culture and communications can have on quality. (Apply) | |
| | E. Team Skills | |
| I.E.1 | 1. Team management | Working with virtual teams |
| | Use various team management skills, including assigning roles and | |
| | responsibilities, identifying the classic stages of team development (forming, | |
| | storming, norming, performing, adjourning), monitoring and responding to | |
| | group dynamics, working with diverse groups and in distributed work | |
| | environments, and using techniques for working with virtual teams. (Apply) | |
| I.E.2 | 2. Team tools | |
| | Use decision-making and creativity tools, such as brainstorming, nominal group | |
| | technique (NGT), multi-voting. (Apply) | |
| | | The ground on her some |
| | II. Software Quality Management (22 questions) | The question number has gone down by 4. |
| | II. Software Quality Management (22 questions) A. Quality Management System | The question number has gone down by 4. |
| II.A.1 | II. Software Quality Management (22 questions) A. Quality Management System 1. Quality goals and objectives | The question number has gone down by 4. |
| II.A.1 | II. Software Quality Management (22 questions) A. Quality Management System 1. Quality goals and objectives Design software quality goals and objectives that are consistent with business | The question number has gone down by 4. |
| II.A.1 | II. Software Quality Management (22 questions) A. Quality Management System 1. Quality goals and objectives Design software quality goals and objectives that are consistent with business objectives. Incorporate software quality goals and objectives into high level program | The question number has gone down by 4. |
| II.A.1 | II. Software Quality Management (22 questions) A. Quality Management System 1. Quality goals and objectives Design software quality goals and objectives that are consistent with business objectives. Incorporate software quality goals and objectives into high level program and project plans. Develop and use documents and processes necessary to support software quality management systems (Create) | The question number has gone down by 4. |
| II.A.1 | II. Software Quality Management (22 questions) A. Quality Management System 1. Quality goals and objectives Design software quality goals and objectives that are consistent with business objectives. Incorporate software quality goals and objectives into high level program and project plans. Develop and use documents and processes necessary to support software quality management systems. (Create) 2. Customers and other stakeholders | The question number has gone down by 4. |
| II.A.1 II.A.2 | II. Software Quality Management (22 questions) A. Quality Management System 1. Quality goals and objectives Design software quality goals and objectives that are consistent with business objectives. Incorporate software quality goals and objectives into high level program and project plans. Develop and use documents and processes necessary to support software quality management systems. (Create) 2. Customers and other stakeholders Describe and analyze the effect of various stakeholder group requirements on | The question number has gone down by 4. |
| II.A.1 II.A.2 | II. Software Quality Management (22 questions) A. Quality Management System Quality goals and objectives Design software quality goals and objectives that are consistent with business objectives. Incorporate software quality goals and objectives into high level program and project plans. Develop and use documents and processes necessary to support software quality management systems. (Create) Customers and other stakeholders | The question number has gone down by 4. |
| II.A.1 II.A.2 II.A.4 | II. Software Quality Management (22 questions) A. Quality Management System Quality goals and objectives Design software quality goals and objectives that are consistent with business objectives. Incorporate software quality goals and objectives into high level program and project plans. Develop and use documents and processes necessary to support software quality management systems. (Create) Customers and other stakeholders | The question number has gone down by 4. |
| II.A.1 II.A.2 II.A.4 | II. Software Quality Management (22 questions) A. Quality Management System Quality goals and objectives Design software quality goals and objectives that are consistent with business objectives. Incorporate software quality goals and objectives into high level program and project plans. Develop and use documents and processes necessary to support software quality management systems. (Create) Customers and other stakeholders Describe and analyze the effect of various stakeholder group requirements on software projects and products. (Analyze) Outsourcing Determine the impact that outsourced services can have on organizational goals and | The question number has gone down by 4. |
| II.A.1 II.A.2 II.A.4 | II. Software Quality Management (22 questions) A. Quality Management System Quality goals and objectives Design software quality goals and objectives that are consistent with business objectives. Incorporate software quality goals and objectives into high level program and project plans. Develop and use documents and processes necessary to support software quality management systems. (Create) Customers and other stakeholders Describe and analyze the effect of various stakeholder group requirements on software projects and products. (Analyze) Outsourcing Determine the impact that outsourced services can have on organizational goals and objectives, and identify criteria for evaluating suppliers/vendors and subcontractors. | The question number has gone down by 4. |
| II.A.1 II.A.2 II.A.4 | II. Software Quality Management (22 questions) A. Quality Management System Quality goals and objectives Design software quality goals and objectives that are consistent with business objectives. Incorporate software quality goals and objectives into high level program and project plans. Develop and use documents and processes necessary to support software quality management systems. (Create) Customers and other stakeholders Customers and products. (Analyze) Outsourcing Determine the impact that outsourced services can have on organizational goals and objectives, and identify criteria for evaluating suppliers/vendors and subcontractors. (Analyze) | The question number has gone down by 4. |
| II.A.1 II.A.2 II.A.4 | II. Software Quality Management (22 questions) A. Quality Management System Quality goals and objectives Design software quality goals and objectives that are consistent with business objectives. Incorporate software quality goals and objectives into high level program and project plans. Develop and use documents and processes necessary to support software quality management systems. (Create) Customers and other stakeholders Describe and analyze the effect of various stakeholder group requirements on software projects and products. (Analyze) Outsourcing Determine the impact that outsourced services can have on organizational goals and objectives, and identify criteria for evaluating suppliers/vendors and subcontractors. (Analyze) Business continuity, data protections, and data management | The question number has gone down by 4. |
| II.A.1 II.A.2 II.A.4 | II. Software Quality Management (22 questions) A. Quality Management System Quality goals and objectives Design software quality goals and objectives that are consistent with business objectives. Incorporate software quality goals and objectives into high level program and project plans. Develop and use documents and processes necessary to support software quality management systems. (Create) Customers and other stakeholders Describe and analyze the effect of various stakeholder group requirements on software projects and products. (Analyze) Outsourcing Determine the impact that outsourced services can have on organizational goals and objectives, and identify criteria for evaluating suppliers/vendors and subcontractors. (Analyze) Business continuity, data protections, and data management Design plans for business continuity, disaster recovery, business documentation and business documentation and business for business continuity. | The question number has gone down by 4. |
| II.A.1 II.A.2 II.A.4 | II. Software Quality Management (22 questions) A. Quality Management System Quality goals and objectives Design software quality goals and objectives that are consistent with business objectives. Incorporate software quality goals and objectives into high level program and project plans. Develop and use documents and processes necessary to support software quality management systems. (Create) Customers and other stakeholders Describe and analyze the effect of various stakeholder group requirements on software projects and products. (Analyze) Outsourcing Determine the impact that outsourced services can have on organizational goals and objectives, and identify criteria for evaluating suppliers/vendors and subcontractors. (Analyze) Business continuity, data protections, and data management Design plans for business continuity, disaster recovery, business documentation and change management, information security and protection of sensitive and personal | The question number has gone down by 4. |

| | TABLE 1: 2016 BOK & NEW TOPICS | |
|----------|--|-----------------------------------|
| Previous | | |
| BOK area | 2016 BOK Topic Heading | New Elements in 2016 BOK |
| | B. Methodologies | |
| II.B.1 | 1. Cost of quality (COQ) and Return on Investment (ROI) | Added ROI |
| | Analyze COQ categories (prevention, appraisal, internal failure, external failure) and | |
| | return on investment (ROI) metrics in relation to products and processes. (Analyze) | |
| II.B.2 | 2. Process improvement models | Benchmarking was moved into this |
| 1.A.2 | Define and describe elements of benchmarking, lean processes, the six sigma | sub text. |
| | methodology, and use Define, Measure, Act, Improve, Control (DMAIC) model and | |
| UD 5 | the plan-do-check-act (PDCA) model for process improvement. (Apply) | |
| II.B.5 | 3. Corrective action procedures | |
| | Evaluate corrective action procedures related to software defects, process | |
| 1.4.2 | A Defect Provention | |
| I.A.2 | 4. Detect Prevention Design and use defeat prevention pressesses such as technical reviews, software tech | |
| 1.D.3 | and technology special training (Evaluate) | |
| | and technology, special training. (Evaluate) | |
| | C. Audits | |
| II.C.1 | 1. Audit types | |
| | Define and distinguish between various audit types, including process, compliance, | |
| | supplier, system. (Understand) | |
| II.C.2 | 2. Audit roles and responsibilities | |
| | Identify roles and responsibilities for audit participants including client, lead auditor, | |
| ноэ | audit team members and auditee. (Understand) | |
| II.C.3 | 3. Audit Process | |
| | Define and describe the steps in conducting an audit, developing and delivering an audit report, and determining appropriate follow up activities. (Apply) | |
| | audit report, and determining appropriate ronow-up activities. (Appry) | The total number of questions has |
| | III. Systems and Software Engineering Processes (32 questions) | been increased by 5. |
| III.3.A | A. Life cycles and process models | Lifecycles were broken out into |
| | | separate subtopics and cognitive |
| | | level changed |
| | 1. Waterfall Software Development Lifecycle | |
| | Apply the Waterfall Lifecycle and related Process Models and identify their | |
| | benefits and when they are used. (Apply) | |

| | TABLE 1: 2016 BOK & NEW TOPICS | |
|----------|---|-----------------------------------|
| Previous | | |
| BOK area | 2016 BOK Topic Heading | New Elements in 2016 BOK |
| | 2. Incremental/ Iterative Software Development Lifecycle | |
| | Apply the Incremental and Iterative Lifecycles and related Process Models and | |
| | identify their benefits and when they are used. (Apply) | |
| | 3. Agile Software Development Lifecycle | |
| | Apply the Agile Lifecycle and related Process Models and identify their | |
| | benefits and when they are used. (Apply) | |
| III.B | B. Systems architecture | |
| | Identify and describe various architectures, including embedded systems, client-server, | |
| | n-tier, web, wireless, messaging, collaboration platforms, and analyze their impact on | |
| | quality. (Analyze) | This section has many added |
| | C. Kequirements engineering | subsections |
| III.C.1 | 1. Product requirements | Added performance, globalization, |
| | Define and describe various types of product requirements, including system, | and localization |
| | feature, function, interface, integration, performance, globalization, | |
| | localization. (Understand) | |
| | 2. Data/information requirements | |
| | Define and describe various types of data and information requirements, | |
| | including data management and data integrity. (Understand) | |
| | 3. Quality Requirements | |
| | Define and describe various types of quality requirements, including | |
| | reliability, usability. (Understand) | |
| | 4. Compliance Requirements | |
| | Define and describe various types of regulatory and safety requirements. | |
| | (Understand) | |
| | 5. Security Requirements | |
| | Define and describe various types of security requirements including data | |
| | security, information security, cybersecurity, data privacy. (Understand) | |
| III.C.2 | 6. Requirement elicitation methods | |
| | Describe and use various requirements elicitation methods, including | |
| | customer needs analysis, use cases, human factors studies, usability | |
| | prototypes, joint application development (JAD), storyboards. (Apply) | |

| | TABLE 1: 2016 BOK & NEW TOPICS | |
|----------|---|---|
| Previous | | |
| BOK area | 2016 BOK Topic Heading | New Elements in 2016 BOK |
| III.C.3 | 7. Requirements evaluation | |
| III.D.2 | Assess the completeness, consistency, correctness and testability of | |
| | requirements, and determine their priority. (Evaluate) | |
| | D. Requirements management | The participant subsection was removed |
| III.D.3 | 1. Requirements change management | |
| | Assess the impact that changes to requirements will have on software development | |
| | processes for all types of lifecycle models. (Evaluate) | |
| III.D.4 | 2. Bidirectional traceability | |
| | Use various tools and techniques to ensure bidirectional traceability from | |
| | E Software an alusis design and development | |
| | E. Software analysis, design, and development | |
| 111.E.I | 1. Design methods Identify the stand used in software design and their functions, and define and | |
| | distinguish between software design methods. (Understand) | |
| | distinguish between software design methods. (Onderstand) | |
| III.E.2 | 2. Quality attributes on design | |
| | Analyze the impact that quality-related elements (safety, security, reliability, | |
| | usability, reusability, maintainability.) can have on software design. | |
| | (Analyze) | |
| III.E.3 | 3. Software reuse | |
| | Define and distinguish between software reuse, reengineering, and reverse | |
| | engineering, and describe the impact these practices can have on software | |
| | quality. (Understand) | |
| III.E.4 | 4. Software development tools | Software development methods |
| | Analyze and select the appropriate development tools for modeling, code | section was removed |
| | analysis, requirements management, and documentation. (Analyze) | |
| | F. Maintenance management | |
| III.F.1 | 1. Maintenance types | |
| | Describe the characteristics of corrective, adaptive, perfective, and preventive | |
| | maintenance types. (Understand) | |

| | TABLE 1: 2016 BOK & NEW TOPICS | |
|----------|--|-------------------------------------|
| Previous | | |
| BOK area | 2016 BOK Topic Heading | New Elements in 2016 BOK |
| III.F.2 | 2. Maintenance strategy | |
| | Describe various factors affecting the strategy for software maintenance, | |
| | including service-level agreements (SLAs), short- and long-term costs, | |
| | maintenance releases, product discontinuance, and their impact on | |
| | software quality. (Understand) | |
| | 3. Customer feedback management | This is a new subsection |
| | Describe the importance of customer feedback management including quality | |
| | of product support, and post delivery issues analysis and resolution. | |
| | (Understand) | |
| | | |
| | IV. Project Management (22 questions) | Total questions reduced by 2. |
| | A. Planning, scheduling, and deployment | |
| IV.A.1 | 1. Project planning | |
| | Use forecasts, resources, schedules, task and cost estimates, etc., to develop project | |
| | plans. (Apply) | |
| IV.A.2 | 2. Work breakdown structure (WBS) | PERT charts, critical path method |
| | Use work breakdown structure (WBS) in scheduling and monitoring projects. | (CPM), Scrum, burn down charts, and |
| | (Apply) | other tools were removed |
| IV.A.3 | 3. Project deployment | |
| | Use various tools, including milestones, objectives achieved, task duration, to | |
| | sat saals and danlax the project (Apply) | |

| | TABLE 1: 2016 BOK & NEW TOPICS | |
|----------|---|--------------------------|
| Previous | | |
| BOK area | 2016 BOK Topic Heading | New Elements in 2016 BOK |
| | B. Tracking and controlling | |
| IV.B.1 | 1. Phase transition control | |
| | Use various tools and techniques such as entry/exit criteria, quality gates, | |
| | Gantt charts, integrated master schedules, etc. to control phase transitions. | |
| | (Apply) | |
| IV.B.2 | 2. Tracking methods | |
| | Calculate project-related costs, including earned value, deliverables, productivity, | |
| | etc., and track the results against project baselines. (Apply) | |
| IV.B.3 | 3. Project reviews | |
| | Use various types of project reviews such as phase-end, management, and | |
| | retrospectives or post-project reviews to assess project performance and | |
| | status, to review issues and risks, and to discover and capture lessons learned f_{1} | |
| | from the project. (Apply) | |
| IV.B.4 | 4. Program reviews | |
| | of their performance, technical accomplishments, resource utilization, (Understand) | |
| | <i>C</i> B ick management | |
| | C. Kisk management | |
| 1V.C.1 | 1. Kisk management techniques (a g assass prevent mitigate transfer) to | |
| | ose fisk management techniques (e.g. assess, prevent, initigate, transfer) to evaluate project risks. (Evaluate) | |
| | 2 Software security risks | |
| 1V.C.2 | 2. Software security fisks Evaluate risks specific to software security, including deliberate attacks | |
| | (hacking sabotage etc.) inherent defects that allow unauthorized access to | |
| | data and other security breaches. Plan appropriate responses to minimize | |
| | their impact (Evaluate) | |
| IV C 3 | 3 Safety and hazard analysis | |
| 11.0.5 | Evaluate safety risks and hazards related to software development and | |
| | implementation and determine appropriate steps to minimize their impact | |
| | (Evaluate) | |

| | TABLE 1: 2016 BOK & NEW TOPICS | |
|----------------|---|-----------------------------------|
| Previous | | |
| BOK area | 2016 BOK Topic Heading | New Elements in 2016 BOK |
| | V. Software Metrics and Analysis (19 questions) | The total number of questions has |
| | | been reduced by 5. |
| X X A 1 | A. Process and product measurement | |
| V.A.I | 1. Terminology | Variation has been added |
| | Define and describe metric and measurement terms such as reliability, | |
| | internal and external validity, explicit and derived measures, and variation. | |
| | (Understand) | |
| | 2. Software Product Metrics | New subsection |
| | Choose appropriate metrics to assess various software attributes (e.g., size, | |
| | complexity, the amount of test coverage needed, requirements volatility, and | |
| | overall system performance). (Apply) | |
| | 3. Software Process Metrics | New subsection |
| | Measure the effectiveness and efficiency of software processes (e.g., | |
| | functional verification tests (FVT), cost, yield, customer impact, defect | |
| | detection, defect containment, total defect containment effectiveness (TDCE), | |
| | defect removal efficiency (DRE), process capability.). (Apply) | |
| | 4. Data Integrity | New subsection |
| | Describe the importance of data integrity from planning through collection | |
| | and analysis and apply various techniques to ensure data quality, accuracy, | |
| | completeness, and timeliness. (Apply) | |
| | B. Process and product measurement | Section has been renamed |
| V.B.3 | 1. Metric reporting tools | |
| | Using various metric representation tools, including dashboards, stoplight | |
| | charts, etc. to report results. (Apply) | |
| | 2. Classic Quality Tools | |
| V.C.3 | Describe the appropriate use of classic quality tools (e.g., flowcharts, Pareto | |
| | charts, cause and effect diagrams, control charts, and histograms). (Apply) | |
| | 3. Problem solving Tools | New subsection |
| | Describe the appropriate use of problem solving tools (e.g., affinity and tree | |
| | diagrams, matrix and activity network diagrams, root cause analysis and data | |
| | flow diagrams (DFD)). (Apply) | |

| | TABLE 1: 2016 BOK & NEW TOPICS | |
|----------|--|---------------------------------|
| Previous | | |
| BOK area | 2016 BOK Topic Heading | New Elements in 2016 BOK |
| | VI. Software Verification and Validation (V&V) (29 questions) | This section has increased by 2 |
| | | questions |
| X71 A 1 | A. Theory | |
| V1.A.1 | 1. V&V methods | |
| | Use software verification and validation methods (e.g., static analysis, | |
| | structural analysis, mathematical proof, simulation, and automation) and | |
| | determine which tasks should be iterated as a result of modifications. (Apply) | |
| VI.A.2 | 2. Software product evaluation | |
| | Use various evaluation methods on documentation, source code, etc., to determine | |
| | Whether user needs and project objectives have been satisfied. (Analyze) | |
| | B. Test Planning and Design | |
| VI.B.1 | 1. Test strategies Select and analyze test strategies (test driven design good enough risk hased time | |
| | box ton down bottom up black box white box simulation automation atc.) for | |
| | various situations (Analyze) | |
| VIB2 | 2. Test plans | |
| | Develop and evaluate test plans and procedures, including system. | |
| | acceptance, validation, etc., to determine whether project objectives are being | |
| | met and risks are appropriately mitigated. (Create) | |
| VI.B.3 | 3. Test designs | |
| | Select and evaluate various test designs, including fault insertion, fault-error | |
| | handling, equivalence class partitioning, boundary value. (Evaluate) | |
| VI.B.4 | 4. Software tests | |
| | Identify and use various tests, including unit, functional, performance, integration, | |
| | regression, usability, acceptance, certification, environmental load, stress, worst- | |
| | case, perfective, exploratory, system. (Apply) | |
| VI.B.5 | 5. Tests of external products | |
| | Determine appropriate levels of testing for integrating supplier, third-party, | |
| | and subcontractor components and products. (Apply) | |
| VI.B.6 | 6. Test coverage specifications | |
| | Evaluate the adequacy of test specifications such as functions, states, data and | |
| | time domains, interfaces, security, and configurations that include | |
| | internationalization and platform variances. (Evaluate) | |

| | TABLE 1: 2016 BOK & NEW TOPICS | |
|------------|--|--------------------------------|
| Previous | | |
| BOK area | 2016 BOK Topic Heading | New Elements in 2016 BOK |
| VI.B.7 | 7. Code coverage techniques | McCabe's cyclomatic complexity |
| | Use and identify various tools and techniques to facilitate code coverage | removed, branch top branch |
| | analysis techniques such as branch coverage, condition, domain, and | changed to branch coverage. |
| | boundary.(Apply) | |
| VI.B.8 | 8. Test environments | |
| | parameters to establish a controlled test environment (Analyze) | |
| VIPO | Dest tools | |
| V1.D.9 | Judentify and use test utilities diagnostics automation and test management | |
| | tools (Apply) | |
| | 10. Test Data Management | |
| | Ensure the integrity and security of test data through the use of configuration | |
| | controls. (Apply) | |
| VI.C | C. Reviews and inspections | Fagan and Gilb removed |
| | Use desk-checks, peer reviews, walk-throughs, inspections, etc., to identify | |
| | defects. (Apply) | |
| | | |
| VID | D. Trad an and in the same and other | |
| VI.D | D. Test execution documentation Deview and evolve to start evolution documents such as test results, defect | |
| | reporting and tracking records, test completion metrics, trouble reports | |
| | input/output specifications (Evaluate) | |
| | VII Software Configuration Management (20 questions) | This section increased by 4 |
| | v II. Software Configuration Management (20 questions) | questions |
| | A. Configuration infrastructure | |
| VII.A.1 | 1. Configuration management team | |
| | Describe the roles and responsibilities of a configuration management group. | |
| | (Understand) | |
| | [NOTE: The roles and responsibilities of the configuration control board (CCB) are $covered in area VII C 2.1$ | |
| | 2 Configuration management tools | |
| ¥ 11./ X.Z | Describe configuration management tools as they are used for managing | |
| | libraries, build systems, defect tracking systems, (Understand) | |

| | TABLE 1: 2016 BOK & NEW TOPICS | |
|----------|---|--------------------------|
| Previous | | |
| BOK area | 2016 BOK Topic Heading | New Elements in 2016 BOK |
| VII.A.3 | 3. Library processes | |
| | Describe dynamic, static, and controlled library processes and related | |
| | procedures, such as check-in/check-out, merge changes. (Understand) | |
| | B. Configuration identification | |
| VII.B.1 | 1. Configuration items | |
| | Describe software configuration items (baselines, documentation, software | |
| | code, equipment), identification methods (naming conventions, versioning | |
| | schemes.) (Understand) | |
| VII.B.2 | 2. Software builds | |
| | Describe the relationship between software builds and baselines, and describe | |
| | methods for controlling builds and baselines (automation, new versions.). | |
| | (Understand) | |
| | C. Configuration control and status accounting | |
| VII.C.1 | 1. Item, baseline, and version control | |
| | Describe processes for documentation control, item change tracking, version | |
| | control that are used to manage various configurations, and describe | |
| | processes used to manage configuration item dependencies in software builds | |
| | and versioning. (Understand) | |
| VII.C.2 | 2. Configuration control board (CCB) | |
| | Describe the roles, responsibilities and processes of the CCB. (Understand) | |
| | [NOTE: The roles and responsibilities of the configuration management team are | |
| | Covered in area vil.A.1.] | |
| VII.C.5 | 5. Concurrent development Describe the use of configuration management control principles in | |
| | Describe the use of configuration management control principles in account development processes. (Understand) | |
| VIIC 4 | 4 Status accounting | |
| VII.C.4 | 4. Status accounting Discuss various processes for establishing maintaining and reporting the status of | |
| | configuration items such as baselines, builds, and tools (Understand) | |
| VIID | D. Configuration audits | |
| , | Define and distinguish between functional and physical configuration audits and how | |
| | they are used in relation to product specifications. (Understand) | |
| | E. Product release and distribution | |

| | TABLE 1: 2016 BOK & NEW TOPICS | |
|----------|---|--------------------------|
| Previous | | |
| BOK area | 2016 BOK Topic Heading | New Elements in 2016 BOK |
| VII.F.1 | 1. Product release Assess the effectiveness of product release processes (planning, scheduling, defining hardware and software dependencies.) (Evaluate) | |
| VI.E | 2. Customer Deliverables Assess the completeness of customer deliverables including packaged and hosted or downloadable products, license keys and user documentation, marketing and training materials. (Evaluate) | |
| VII.E.2 | 3. Archival processes Assess the effectiveness of source and release archival processes (backup planning and scheduling, data retrieval, archival of build environments, retention of historical records, offsite storage.) (Evaluate) | |