Systems Software Integrator (SSI)

Content Outline

Qualified candidates for NICET certification as Systems Software Integrators (SSI) should possess the knowledge, experience, and advanced skills needed to work in the industry. Qualified candidates are able to implement designs, integrate components, and deploy software systems into a complete and secure system. They are skilled in risk mitigation, quality assurance, program management, and system integration.

1.0   Program Management

(Questions related to these tasks make up 31-38% of the exam.)

1.1 Manage documentation, 1, 4, 17

1.2 Manage project timelines, 5, 9, 15,

1.3 Estimate projected costs, 9, 14

1.4 Coordinate resources, 15, 17

1.5 Commission integrated systems, 5, 6, 15,

1.6 Maintain version control, 4, 5, 7, 8, 15

1.7 Identify project requirements and specifications, 17

2.0   Quality Assurance

(Questions related to these tasks make up 17-20% of the exam.)

2.1 Develop test plan, 2, 3, 14, 18

2.2 Validate environment configuration, 2, 6, 7

2.3 Execute test plan, 5, 8, 12, 15, 18

2.4 Manage deliverables, 1, 6, 7, 8, 17, 18

3.0   System Integration

(Questions related to these tasks make up 16-20% of the exam.)

3.1 Integrate components, 4, 5, 6, 13

3.2 Determine relevant frameworks, 2, 7, 11, 16, 19

3.3 Determine care, custody, and control process, 5, 7, 16, 17, 19

3.4 Design system engineering, 2, 4, 7, 12, 13, 15, 17

4.0   Risk Mitigation

(Questions related to these tasks make up 26-32% of the exam.)

4.1 Analyze Risk, 1, 3, 5, 7, 14

4.2 Evaluate vendors, 3, 14, 15

4.3 Determine functional safety, 11, 18, 19

4.4 Mitigate risk, 1, 6, 10, 17, 18

4.5 Manage stakeholder risk, 1, 6

4.6 Evaluate cybersecurity posture, 2, 3, 6, 10, 17

4.7 Engage in continuous improvement and modifications, 2, 3

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