

Development and implementation: Integration and installation; Systems Integration and build SINT

Description

The planning, implementation and control of activities to integrate/build components, subsystems and interfaces to create operational systems, products or services for delivery to customers, or for internal or interim purposes such as testing. The development of organisational capabilities for systems integration and build including automation and continuous integration.

Level 6

Develops organisational policies, standards, and guidelines for systems integration and build. Leads the development of organisational capabilities for systems integration and build including automation and continuous integration. Provides resources to ensure systems integration and build can operate effectively and ensure adoption and adherence to policies and standards.

Level 5

Identifies, evaluates and manages the adoption of appropriate tools, techniques and processes (including automation and continuous integration) to create a robust integration framework. Leads integration work in line with the agreed system and service design. Monitors and reports on the results of each integration and build. Designs and builds integration components and interfaces. Contributes to the overall design of the service and the definition of criteria for product and component selection. Contributes to development of systems integration policies, standards and tools.

Level 4

Provides technical expertise to enable the configuration of software, other system components and equipment for systems testing. Collaborates with technical teams to develop and agree system integration plans and report on progress. Defines complex/new integration builds. Ensures that integration test environments are correctly configured. Designs, performs and reports results of tests of the integration build. Identifies and documents system integration components for recording in the configuration management system. Recommends and implements improvements to processes and tools.

Level 3

Defines the software modules needed for an integration build and produces a build definition for each generation of the software. Accepts completed software modules, ensuring that they meet defined criteria. Produces software builds from software source code for loading onto target hardware. Configures the hardware and software environment as required by the system being integrated. Produces integration test specifications, conducts tests and records and reports on outcomes. Diagnoses faults and records and reports on the results of tests. Produces system integration reports.

Level 2

Produces software builds from software source code. Conducts tests as defined in an integration test specification, records the details of any failures. Analyses and reports on integration test activities and results. Identifies and reports issues and risks.