

Skills and quality; People management; Quality and conformance; Safety assessment SFAS

Description

The assessment of safety-related software systems to determine compliance with standards and required levels of safety integrity. This involves making professional judgements on software engineering approaches, including the suitability of design, testing, and validation and verification methods, as well as the identification and evaluation of risks and the means by which they can be reduced. The establishment, maintenance and management of an assessment framework and practices.

Level 6

Leads assessments up to IEC 61508 Safety Integrity level 4 (or equivalent standard) or participates in any level of assessment. Determines assessment methods, techniques and tools that are to be used as appropriate to the integrity levels of the assessments undertaken.

Level 5

Participates in assessments up to IEC 61508 Safety Integrity level 3 (or equivalent standard), and undertakes safety analyses on initial designs using HAZOPS, FMEA or similar methods.