

F.5.1 SOFTWARE PROJECT MANAGEMENT AND QUALITY PLANNING

Objective:

Software project management and quality planning should depict the organizational structure that supports the software life-cycle stages and deliverables, and influences and controls the quality of the software.

Criteria:

1. Software project management and quality planning has been implemented depicting organizational structure, responsibilities, and authorities for those managing, performing, and assessing the software projects.
2. SQA activities, software practices, and documentation are periodically assessed.
3. Software quality activities have been effectively implemented.

Approach:

Confirm the existence of project management and QA planning work activity. This may be present in software project management and/or SQA plans that exist either as a stand alone document or embedded in other documents and related procedures. The software project management and software quality planning should identify and/or define the following:

- software project schedule;
- software project scope;
- software engineering activities, including software requirements and design;
- software V&V activities, including reviews and test;
- SCM activities;
- software risk management approach;
- software safety analysis and planning;
- supplier control;
- user and software staff training,
- standards, practices, conventions, and metrics;
- records and document collection, maintenance, and retention; and
- problem reporting and corrective action methods.

Many of the items listed above may be detailed in other documents, for instance software V&V may be detailed in a software V&V plan or in software test plans. It should be noted that this work activity addresses the existence that these items are identified and described. Associated work activities, such as software V&V address the quality of the software V&V work activity being performed as it relates to the grading level.

Determine whether the documents containing the software project management and quality plan are controlled under configuration change control and document control process, and are maintained until the software is retired. This may overlap with the SCM work activity.

Verify that the software project management and quality plan is reviewed and updated, as necessary, for completeness and consistency. This may overlap with the software V&V work activity.