

PURCHASE ORDER ATTACHMENT TQA-202  
SOFTWARE QUALITY SUBCONTRACTOR REQUIREMENTS

SOFTWARE QUALITY PROGRAM. This attachment establishes the minimum software quality program requirements and defines the information that shall be documented in a Software Development Plan (SDP). The SDP shall be delivered thirty days after contract award.

The subcontractor shall make provisions for periodic site visits by the prime contractor to evaluate the processes documented in the SDP.

SOFTWARE DEVELOPMENT PLAN REQUIREMENTS

The SDP shall describe a developer's plans for conducting a software development effort. The term "software development" is meant to include new development, modification, reuse, reengineering, maintenance, and all other activities resulting in software products.

The subcontractor shall write a SDP that documents the methods, procedures and tools used to perform the following:

- Requirements Management
  - Software Configuration Management
  - Software Quality Assurance
  - Software Testing
1. Requirements Management. This section shall describe the approach to be followed for software requirements management. The approach shall cover all contractual clauses concerning this topic and describe the methods and tools used to document both technical and nontechnical requirements.
  2. Software Configuration Management. This section shall be divided into the following subparagraphs to describe the approach to be followed for software configuration management. The planning in each area shall cover all contractual clauses regarding the identified topic.
    - 2.1 Configuration identification
    - 2.2 Configuration control
    - 2.3 Problem reporting
    - 2.4 Configuration status accounting
    - 2.5 Configuration audits
    - 2.6 Packaging, storage, handling, and delivery
  3. Software Quality Assurance. This section shall be divided into the following subparagraphs to describe the approach to be followed for software quality assurance. The planning in each subparagraph shall cover all contractual clauses regarding the identified topic.
    - 3.1 Software quality assurance evaluations
    - 3.2 Software quality assurance records
    - 3.3 Independence in software quality assurance
  4. Software Testing. This section shall be divided into the following subparagraphs to describe the approach to be followed for system qualification testing. The planning in each subparagraph shall cover all contractual clauses regarding the identified topic.
    - 4.1 Performing system qualification testing
    - 4.2 Revision and retesting
    - 4.3 Analyzing and recording system qualification test results