



JISC Project Quality Plan Template

This document defines the quality expectations the project must achieve and how they will be met.

1. Quality Expectations

The JISC programme manager completes this section defining the standards and level of quality expected to be achieved by the project.

The project will deliver the eLearning Tool(s) as specified in their proposal and refined in the JISC project plan document in line with following standards/guidelines:

- JISC (draft) Open Source Policy May 2004
- JISC (draft) Software Quality Assurance August 2004
- JISC Project Management Guidelines December 2003
- Release versions of development and final code are to placed with <http://sourceforge.net/>
- CETIS project page be maintained to communicate development progress and mapping of software to the ELF (eLearning Framework). <http://www.cetis.ac.uk/>
- Software should meet the high level functional specification as specified in the project plan.
- Software should be robust, maintainable and extendable (see JISC (draft) Software Quality Assurance August 2004).

Tolerances

- Cost – project must be completed within agreed grant.
- Time – project must be completed by 31st March 2005.
- Scope – given the short time scale of the project the scope of the deliverable (i.e. eLearning Tool(s)) may be narrowed to ensure completion on time and to budget. Any changes to scope must be agreed with the programme manager and documented via the change control procedure.
- Quality – project must adhere to the standards as defined for open standards, open source and software quality

2. Acceptance Criteria

For each of the main deliverables of the project criteria for its acceptance / competition are defined.

Successful completion of an external evaluation of the projects software outputs and development process.

3. Quality Responsibilities

List of who is responsible for monitoring and ensuring quality for deferent aspects of the project?

Software Development – Ian Glover

Software Testing - Zhijie Xu

Documentation – Ian Glover, Zhijie Xu, Glenn Hardaker

4. Standards and Technologies

Referenced list of standards and technologies to be used by this project.

UML 1.5

SOAP 1.2

Java 1.4 and J2EE 1.4 (specifically Java Server Pages and Servlets)

MySQL 4.0

XML

HTTP 1.1

HTML 4.01 and XHTML 1.0

JUnit 3.8

Tomcat 5

WSDL 1.0

UDDI 3.0

Development method: Baseline core functionality then iterative approach for extended feature set.

5. Quality Control and Audit Processes

Description of the process to be used to control project quality and enable auditing.

Software design documentation will be developed in UML.

Software quality to be assessed via relevant tools, such as unit testing, stress testing, HTML validation. Anticipated test results will be recorded before the test is executed and compared with actual results, all results (both actual and anticipated) will be recorded.

Software to be tested by the developer not involved in the creation of the code in order to ensure objectivity.

Team meetings to discuss areas of difficulty and to assess any changes to procedures and project scope that may be required. Team meetings to evaluate progress and quality of deliverables. Faults and bugs to be logged in a spreadsheet.

Proof reading mechanism for all documentation by parties not involved with the production of documentation.

Version Control software in place to manage software and documentation changes.

6. Change Control and Configuration Management Processes

Description of the process to be used to manage change and configuration management.

Version Control (Team Coherence) software in place to manage software and documentation changes, providing ability to revert to previous versions.

Baseline software produced to original specification, further functionality requests, preferably via Sourceforge forums, assessed by project team.

7. Quality Tools

List any tools to be used to help ensure quality.

Visual Paradigm 3.2 UML tool (www.visual-paradigm.com)

JUnit 3.8 unit test tool (www.junit.org)

W3C HTML validator 0.6.7 (validator.w3.org)

Bobby 4.0.1 HTML accessibility analyser. (bobby.watchfire.com/bobby/html/en/index.jsp)

Team Coherence 7.1 version control software (www.qsc.co.uk)