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Software development testing plan

AT2 sprint three

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## Purpose and Scope

This Software Quality Assurance Plan provides a foundation for managing the CITE Manages Services (CITE MS) software quality assurance activities and is based on project activities and work products as documented in the CITE MS Project Plan.

This plan:

• Identifies the SQA responsibilities of the project team.

• Defines CITE MS reviews and audits and how they will be conducted.

• Lists the activities, processes, and work products that the SQA team will review and audit.

• Identifies the SQA work products.

## SQA Team Roles and Responsibilities

|  |  |  |  |
| --- | --- | --- | --- |
| **Number** | **Member** | **Roles** | **Responsibility** |
| 1 | Travis | SQA Leader | Develop and document quality standard and process for all management process  Manage software quality assurance activities for the project. |
| 2 | Jyle | SQA Auditor | Perform SQA tasks, report to SQA leader the result of SQA review. |
| 3 | Willian | SQA Auditor | Perform SQA tasks, report to SQA leader the result of SQA review. |

## Work Products to be Reviewed

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Number** | **Development Phase** | **Product** | **Permission** | **Granted to Person** |
| 1 | Sprint Three | Management plan | Read | Jyle |
| 2 | Sprint Three | Optimisation Report | Read | Travis |
| 4 | Sprint Three | Software Development test report | Read | Willian |
| 5 | Sprint Three | Application test reports | Read | SQA Team |

## SQA Task Schedule

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **SQA Task** | **Person In charge** | **Description** |
| 6/11/20 | Evaluate Management plan | Jyle | Analysis report review, project plan review. |
| 6/11/20 | Review Optimisation report | Travis | Review optimisation report. |
| 9/11/20 | Review Software Development test report. | Willian | Review software development test report. |
| 11/11/20 | Review application test reports | SQA team | Review application test reports. |

## Reference Materials

Reference materials used to develop the CITE MS SQAP include:

* ISO/IEC/IEEE 12207:2017 Systems and software engineering — Software life cycle processes.
* CITE Managed Services Quality Management Policies and Procedures.

## Standards and Methodology

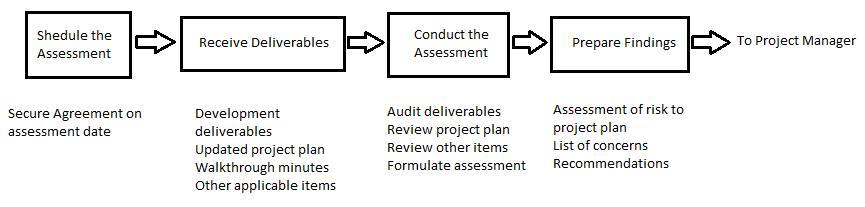
The following standards or methodologies were used to train team members in order to better prevent against any defects from occurring in the management and development process. These standards were taken from CITE Managed Services, in accordance with our ongoing contract.

* IEEE Guide to Software Requirements Specifications
* IEEE Guide to Software Design Descriptions
* IEEE Standard for Software User Documentation
* INITIATION AND PLANNING - Project specification analysis, test plan elaboration and team assignment.
* FIRST REVIEW - Initial testing of first development deliverables, refining the test plan and test items.
* ITERATION AUDITS - Ongoing testing of intermediate iterations builds.
* FINAL VERIFICATION AND VALIDATION - Final product testing to ensure bespoke quality and readiness for deployment.

## Audits or Reviews

Quality Assurance for this project will include at least one audit of all current draft deliverables and selected work products in each stage of development. The reviews will assure that the established system development and project management processes and procedures are being followed effectively, and exposures and risks to the current Project Plan are identified and addressed.

The following diagram depicts the In-Stage Assessment process flow for all CITE MS development stages:



Each deliverable and/or selected work product will be audited to make judgements as to the quality and validity of the deliverable or work product. The assessment will include any verification or validation activities performed since the last In-Stage Assessment.

## SQAP Checklist

|  |  |  |  |
| --- | --- | --- | --- |
| **Software Quality Assurance Activity** | **Yes** | **No** | **N/A** |
| I. Project Plan |  |  |  |
| Team meeting to discuss project requirements | X |  |  |
| Project requirements allocated amongst team members | X |  |  |
| Project plan provides clear guidance on time frames expected of each task | X |  |  |
| Project plan was completed on time | X |  |  |
| Project plan meets expected QA guidelines | X |  |  |
|  | | | |
| II. Optimisation Report |  |  |  |
| Identify code and performance optimisers | X |  |  |
| Implement optimisers where required | X |  |  |
| Optimisation process adequately documented | X |  |  |
| Report is completed on time | X |  |  |
| Report meets expected QA guidelines | X |  |  |
|  | | | |
| IV. Software Development Test Report |  |  |  |
| Report identifies the SQA responsibilities of the project team. | X |  |  |
| Report Defines CITE MS reviews and audits and how they will be conducted. | X |  |  |
| Report Lists the activities, processes, and work products that the SQA team will review and audit. | X |  |  |
| Report Identifies the SQA work products. | X |  |  |
| Report was completed on time | X |  |  |
| Report meets expected QA guidelines | X |  |  |
|  | | | |
| V. Application Test Reports |  |  |  |
| Sufficient number of test cases were conducted to ensure product meets client requirements | X |  |  |
| Each team member assigned completed their report on time | X |  |  |
| Reports meet expected QA guidelines | X |  |  |