TESTING PROCESS

**Qui Ngo**

**16/05/2017**

**Version 1.0**

**Revision History**

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**Table of Contents**

[**1.** **Introduction** 4](#_Toc469744344)

[**1.1.** **Purpose** 4](#_Toc469744345)

[**1.2.** **Intended audience** 4](#_Toc469744346)

[**2.** **Process** 5](#_Toc469744347)

[**2.1.** **Overview** 5](#_Toc469744348)

[**2.2.** **Planning** 6](#_Toc469744349)

[**2.2.1.** **Purpose** 6](#_Toc469744350)

[**2.2.2.** **Entry & Exit Conditions/Criteria’s** 6](#_Toc469744351)

[**2.2.3.** **Role and Activities** 6](#_Toc469744352)

[**2.2.4.** **Tools** 6](#_Toc469744353)

[**2.2.5.** **Templates** 6](#_Toc469744354)

[**2.3.** **Analysis and Design Test Case** 6](#_Toc469744355)

[**2.3.1.** **Purpose** 6](#_Toc469744356)

[**2.3.2.** **Entry & Exit Conditions/Criteria’s** 6](#_Toc469744357)

[**2.3.3.** **Role and Activities** 6](#_Toc469744358)

[**2.3.4.** **Tools** 7](#_Toc469744359)

[**2.3.5.** **Templates** 7](#_Toc469744360)

[**2.4.** **Implementation and Execution** 7](#_Toc469744361)

[**2.4.1.** **Purpose** 7](#_Toc469744362)

[**2.4.2.** **Entry & Exit Conditions/Criteria’s** 7](#_Toc469744363)

[**2.4.3.** **Role and Activities** 7](#_Toc469744364)

[**2.4.4.** **Tools** 7](#_Toc469744365)

[**2.4.5.** **Templates** 8](#_Toc469744366)

[**2.5.** **Evaluation Exit Criteria’s and Reporting** 8](#_Toc469744367)

[**2.5.1.** **Purpose** 8](#_Toc469744368)

[**2.5.2.** **Entry & Exit Conditions/Criteria’s** 8](#_Toc469744369)

[**2.5.3.** **Role and Activities** 8](#_Toc469744370)

[**2.5.4.** **Tools** 8](#_Toc469744371)

[**2.5.5.** **Templates** 8](#_Toc469744372)

[**2.6.** **Close Activities** 8](#_Toc469744373)

[**2.6.1.** **Purpose** 8](#_Toc469744374)

[**2.6.2.** **Entry & Exit Conditions/Criteria’s** 8](#_Toc469744375)

[**2.6.3.** **Role and Activities** 9](#_Toc469744376)

[**2.6.4.** **Tools** 9](#_Toc469744377)

[**2.6.5.** **Templates** 9](#_Toc469744378)

[**3.** **References** 9](#_Toc469744379)

**List of Figure**

[**Figure 1.F-Team Testing Process** 7](#_Toc469744557)

**List of Table**

[**Table 1. Intended audience** 6](#_Toc482880051)

[**Table 2. Planning Role and Activities** 8](#_Toc482880052)

[**Table 3. Analysis and Design Test Case Role and Activities** 8](#_Toc482880053)

[**Table 4. Implementation and Execution Role and Activities** 9](#_Toc482880054)

[**Table 5. Evaluation Exit Criteria’s and Reporting** 10](#_Toc482880055)

[**Table 6. Close Activities Role and Activities** 11](#_Toc482880056)

# **Introduction**

## **Purpose**

Testing is a process rather than a single activity. This process starts from test planning then designing test cases, preparing for execution and evaluating status till the test closure.

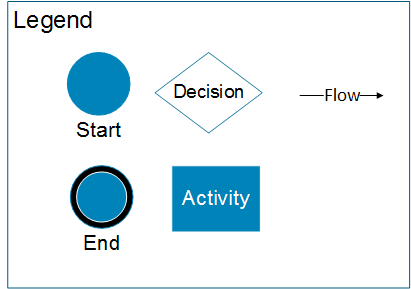
## **Intended audience**

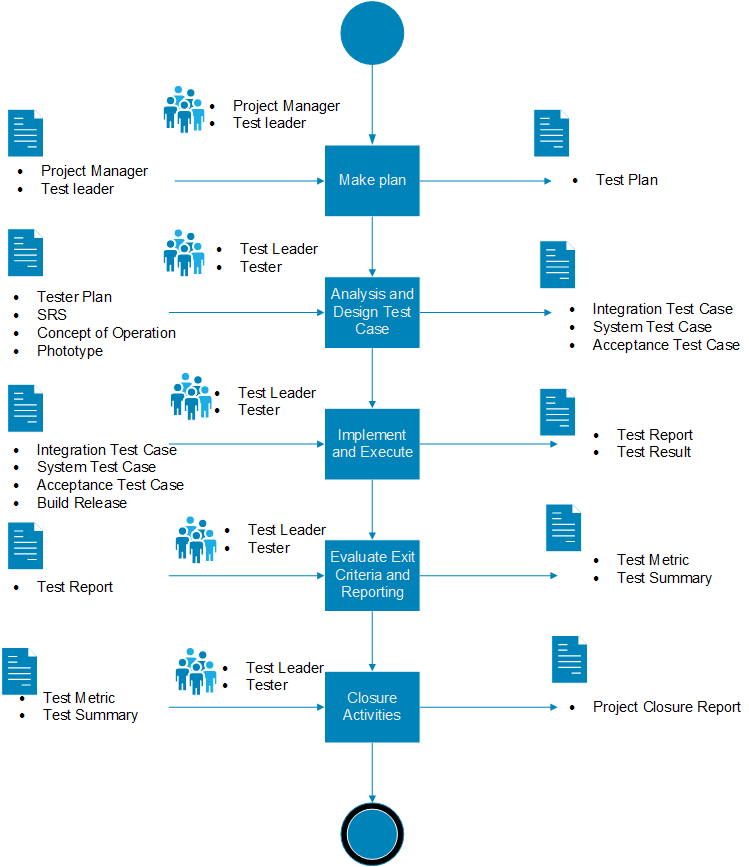
|  |  |  |
| --- | --- | --- |
| **Role** | **Name** | **Responsibility** |
| Test Leader | Qui Ngo | Develop Test Plan, Test Case and Monitoring in Tet Phase |
| Project Manager | Van Phan | Monitoring and Control Schedule |
| Tester | Nhuan Tran,Tan Huynh, Thang Nguyen | Develop Test Case, Execution Test Case and Develop Test Report. Communication with Develop Team |

**Table 1. Intended audience**

# **Process**

## **Overview**

****



**Figure 1.TripleX Team Testing Process**

## **Planning**

* + 1. **Purpose**

In this step, Test Leader, Will Develop Test Plan, Test Strategy for project.

* + 1. **Entry & Exit Conditions/Criteria’s**

**Entry:**

* Requirement phase completed

**Exit:**

* Test plan and Test Strategy of project completed
  + 1. **Role and Activities**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | **Role** | **Step** | **Activities** | **Output** |
| * Project Plan | * Test Leader | * Planning | Test Leader will base on Project Plan develop Test Plan and Test Strategy for project | * Test Plan |

**Table 2. Planning Role and Activities**

* + 1. **Tools** 
       - Microsoft word
       - SVN Github
    2. **Templates**
       - ECB\_TE\_TestPlan\_Template

## **Analysis and Design Test Case**

* + 1. **Purpose**

In this step, Test Leader, will base on Requirement Document Baselined analyze and design test case for project.

* + 1. **Entry & Exit Conditions/Criteria’s**

**Entry:**

* + - * Requirement Phase Completed and all Requirement Document Baselined

**Exit:**

* + - * All test case completed
    1. **Role and Activities**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | **Role** | **Step** | **Activities** | **Output** |
| * Project Plan * SRS * Concept of Operation * Prototype | * Test Leader * Tester | * Analysis and Design Test Case | Test Leader and Tester will base on Project Plan develop Test Case for project | * Integration Test Case * System Test Case * Acceptance Test Case |

**Table 3. Analysis and Design Test Case Role and Activities**

### **Tools**

* Microsoft Excel
* Microsoft Word
* SVN GitHub

### **Templates**

* ECB\_TE\_IntegrationTestCase\_Template
* ECB\_TE\_SystemTestCase\_Template
* ECB\_TE\_AcceptanceTestCase\_Template

## **Implementation and Execution**

### **Purpose**

In this step Tester, will run test case base on build release form develop team

### **Entry & Exit Conditions/Criteria’s**

**Entry:**

* Develop released build

**Exit:**

* All Function in released build tested
  + 1. **Role and Activities**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | **Role** | **Step** | **Activities** | **Output** |
| * Integration Test Case * System Test Case * Acceptance Test Case * Build Release | * Test Leader * Tester | * Implementation and Execution | Tester execution test and develop test report and confirm with Test Leader  Test Leader will send test report to Develop Team | * Test Report * Test Result |

**Table 4. Implementation and Execution Role and Activities**

### **Tools**

* Microsoft Word
* Microsoft Excel
* SVN GitHub

### **Templates**

* ECB\_TE\_TestReport\_Template

## **Evaluation Exit Criteria’s and Reporting**

### **Purpose**

In this step, Test Leader, will check the test logs against the exit criteria specified in test planning and write a test summary report for stakeholders

### **Entry & Exit Conditions/Criteria’s**

**Entry:**

* Test case have been finished

**Exit:**

* Test Metrix and Summary release to stakeholders
  + 1. **Role and Activities**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | **Role** | **Step** | **Activities** | **Output** |
| * Test Report * Test Result | * Test Leader * Tester | * Evaluation Exit Criteria’s and Reporting | Test Leader will collect all Test case have been finished and base on test plan develop test Summary and summary report | * Test Metrix * Test Summary |

**Table 5. Evaluation Exit Criteria’s and Reporting**

### **Tools**

* Microsoft Word
* Microsoft Excel
* SVN GitHub

### **Templates**

* ECB\_TE\_TestSummary\_Template
* ECB\_TE\_TestPlan\_Template
* ECB\_PM\_MeasurementPlan\_Template

## **Close Activities**

### **Purpose**

In this step, Test closure activities are done when software is delivered.

### **Entry & Exit Conditions/Criteria’s**

**Entry:**

* Reporting have been completed and send to stakeholders

**Exit:**

* Product acceptance delivery to customer
  + 1. **Role and Activities**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | **Role** | **Step** | **Activities** | **Output** |
| * Test Metrix * Test Summary | * Test Leader * Tester | * Close Activities | Test Leader check with planned deliverables and to ensure that all incident reports have been resolves. | * Project Closure |

**Table 6. Close Activities Role and Activities**

### **Tools**

* + - * Microsoft Word
      * Microsoft Excel
      * SVN GitHub

### **Templates**

* ECB\_PM\_Reflection\_Template
* ECB\_IM\_UserGuide\_Template
* ECB\_IM\_GuideLine\_Template

# **References**

**http://istqbexamcertification.com/what-is-fundamental-test-process-in-software-testing/**