**Software Test Plan (STP) Template**

**Items that are intended to stay in as part of your document are in bold;**

*Explanatory comments are in italic text.*

Plain text is used where you might insert wording about your project.

Tailor as appropriate. Where you decide to omit a section, keep the header, but insert a comment saying why you omitted the element.

When you submit this document, do **not** include this first page!

(Agency)

(Project)

**Software Test Plan**

**Version:** (n) **Date:** dd/mm/yyyy

**Group Members:** [insert names here, comma separated, remove square brackets]

**Prepared for:** [insert teacher name here]

**TABLE OF CONTENTS**

*[Insert a table of contents here. This is easiest to do after you have finished creating the document]*

# 1. INTRODUCTION

*(Note: The ordering of this Software Test Plan (STP) elements are not meant to imply that the sections or subsections must be developed or presented in that order. The order of presentation is intended for ease of use, not as a guide to preparing the various elements of the Software Test Plan. If some or all of the content of a section is in another document, then a reference to that material may be listed in place of the corresponding content.)*

*The Introduction section of the Software Test Plan (STP) provides an overview of the project and the product test strategy, a list of testing deliverables, the plan for development and evolution of the STP, reference material, and agency definitions and acronyms used in the STP.*

## 1.1 Objectives

*(Describe, at a high level, the scope, approach, resources, and schedule of the testing activities. Provide a concise summary of the test plan objectives, the products to be delivered, major work activities, major work products, major milestones, required resources, and master high-level schedules, budget, and effort requirements.)*

## 1.2 Testing Strategy

**Testing is the process of analyzing a software item to detect the differences between existing and required conditions and to evaluate the features of the software item.** (*This may appear as a specific document (such as a Test Specification), or it may be part of the organization's standard test approach. For each level of testing, there should be a test plan and an appropriate set of deliverables. The test strategy should be clearly defined and the Software Test Plan acts as the high-level test plan. Specific testing activities will have their own test plan. Refer to section 5 of this document for a detailed list of specific test plans.)*

*Specific test plan components include:*

· *Purpose for this level of test,*

· *Items to be tested,*

· *Features to be tested,*

· *Features not to be tested,*

· *Management and technical approach,*

· *Pass / Fail criteria,*

· *Individual roles and responsibilities,*

· *Milestones,*

· *Schedules, and*

· *Risk assumptions and constraints.*

## 1.3 Definitions and Acronyms

*(Specify definitions of all terms and acronyms required to properly interpret the Software Test Plan.)*

# 2. TEST ITEMS

*(Specify the test items included in the plan. Supply references to the following item documentation:*

· *Users guide,*

· *Operation guide/Installation guide,*

· *Features (availability, response time),*

· *Verification and validation plans.)*

## 2.1 User Procedures

*(Describe the testing to be performed on all user documentation to ensure that it is correct, complete, and comprehensive.)*

## 2.2 Features To Be Tested

*(Identify all software features and combinations of software features to be tested. Identify the test design specifications associated with each feature and each combination of features.)*

## 2.3 Features Not To Be Tested

*(Identify all features and specific combinations of features that will not be tested along with the reasons.)*

# 3. APPROACH

*(Describe the overall approaches to testing. The approach should be described in sufficient detail to permit identification of the major testing tasks and estimation of the time required to do each task. Identify the types of testing to be performed along with the methods and criteria to be used in performing test activities. Describe the specific methods and procedures for each type of testing. Define the detailed criteria for evaluating the test results.)*

*(For each level of testing there should be a test plan and the appropriate set of deliverables.*

*Identify the inputs required for each type of test. Specify the source of the input. Also, identify the outputs from each type of testing and specify the purpose and format for each test output. Specify the minimum degree of comprehensiveness desired. Identify the techniques that will be used to judge the comprehensiveness of the testing effort. Specify any additional completion criteria (e.g., error frequency).*

## 3.1 Component Testing

*(Testing conducted to verify the implementation of the design for one software element (e.g., unit, module) or a collection of software elements. This is sometimes called unit testing. The purpose of component testing is to ensure that the program logic*

*is complete and correct and ensuring that the component works as designed.)*

## 3.2 Integration Testing

*(Testing conducted in which software elements are tested until the entire system has been integrated. The purpose of integration testing is to ensure that design objectives are met and ensures that the software, as a complete entity, complies with operational requirements. Integration testing is also called System Testing.)*

## 3.3 Interface Testing

*(Testing done to ensure that the application operates efficiently and effectively using all interfacing.)*

## 3.4 Performance Testing

*(Testing done to ensure that that the application performs to respectable expectations (response time, availability, portability, and scalability)).*

## 3.5 Regression Testing

*(Testing done to ensure that that applied changes to the application have not adversely affected previously tested functionality.)*

## 3.6 Alpha/Beta Testing

*(Testing, done by a third party, using a pre-release version of the product to verify and validate that the system meets business functional requirements. The purpose of beta testing is to detect application faults, failures, and defects.)*

# 4. Testing Process

*(Identify the methods and criteria used in performing test activities. Define the specific methods and procedures for each type of test. Define the detailed criteria for evaluating test results.)*

## 4.1 Test Deliverables

*(Identify the deliverable documents from the test process. Test input and output data should be identified as deliverables. Testing report logs, test incident reports, test summary reports, and metrics' reports must be considered testing deliverables.)*

## 4.2 Responsibilities

*(Identify the groups responsible for managing, designing, preparing, executing, witnessing, checking, and resolving test activities.)*

## 4.3 Resources

*(Identify the resources allocated for the performance of testing tasks. Identify the organizational elements or individuals responsible for performing testing activities. Assign specific responsibilities. Specify resources by category. If automated tools are to be used in testing, specify the source of the tools, availability, and the usage requirements.)*

## 4.4 Schedule

*(Identify the high level schedule for each testing task. Establish specific milestones for initiating and completing each type of test activity, for the development of a comprehensive plan, for the receipt of each test input, and for the delivery of test output. Estimate the time required to do each test activity.) (When planning and scheduling testing activities, it must be recognized that the testing process is iterative based on the testing task dependencies.)*

*Test plan document original, taken from:* [*http://www.coe.montana.edu/ee/cady/ee361/emuse/testplan.pdf*](http://www.coe.montana.edu/ee/cady/ee361/emuse/testplan.pdf) *and modified for use in Computer Studies classroom. Retrieved, September 11th, 2013.*