

Software Testing Techniques

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Course description

This course help participant gain the knowledge of how to be an effective Test Engineer, Test Leader and Test Manager. The course will introduce the whole test activities start from the beginning to advance levels. It also provides both wide range knowledge areas such as Testing Types, Level of Testing, General Test Process, etc. and in depth technique for example how to create test cases and how to apply testing techniques in to the test cases.

The participant will learn about Functional and Non-Functional testing, participant will be able to select the right test type and test technique to measure the performance of their product. The course also introduces some of Test Tools including basic concepts of the Test Automation tool.

The class is benefit for Test engineer as well as Test Leader and Test Manager as it provides the overall Test Process and Test Management knowledge. Exercises and workshops will be provided in each module which helps the participant practicing and reviewing their knowledge and comprehension.

The final workshop will be provided at the end of the class to let participant practice their understanding along the Testing Process.

Course objective

1. Describe the basic knowledge of Testing.
2. Introduce Test Types and Test Levels in Software Development Lifecycle.
3. Demonstrate how Testing help improving the quality of product.
4. Demonstrate how to apply the effective testing in the daily basis work.

Who should attend

Test Engineer, Test Leader and Test Manager

Maximum seats: 20

Instructor

Nutdanai Wiangwang

*ISEB Foundation Certificate in
Software Testing*

Course fee

10,500 Baht (Excluded VAT 7%)

Duration

2 days (approximately about 6 - 8 hrs).

Date & Time

25-26 May 2010 : 9.30 - 16.30

Venue

Elite Meeting Room1-2, 10th
Floor Amarin Tower, Ploenchit
Rd.

SUCCESSFUL COURSE COMPLETION

Course Outlines Day One

Introduction

- Benefit of testing
- Limitation of testing
- Testing and development life cycle
- Entry & Exit criteria

Level of testing

- Black Box & White Box testing
- Standard level of testing
- Unit Test
- Integration Test in the small
- System Test
- Integration Test in the large
- Acceptance Test
- V-Model
- Type of testing project
- Regression & Retest

Black Box testing techniques

- Requirement Analysis
- Equivalence Partition
- Boundary Value Analysis
- Cause Effect Graphing
- State Transition testing

White Box testing techniques

- Statement coverage
- Decision Branch coverage
- Branch Condition testing
- Branch Condition Combination testing
- Modified Condition decision testing
- LCSAJ
- Path

Test Process & Document

- Overview test process
- Test plan
- Test specification
- Test report
- Test defect logging
- Test progress report

Day Two

Functional testing

- Event – Response model

Non – Functional testing

- Usability testing
- Reliability testing
- Performance testing
- Load Test – Volume, Concurrent User
- Stress Test
- Soak, Endurance Test
- Robustness Test

Workshops & Exercises

Workshops and exercises are provided in each chapter together with the final exercise that attendees can practice along the test process.

Payment Condition

All fee must be paid in full at least 7 days prior to the start of the class. A payment can be made via cheque or account transfer.

- Cheque should be made payable to "**Global Process Innovations(GPI) Asia, Co.,Ltd.**"
- For the account transfer, deposit the amount to "Global Process Innovations(GPI) Asia, Co.,Ltd.", saving account number: 216-204667-7, Siam Commercial Bank, Pleonchit Center Sub Branch (Please fax the pay-in slip to +66-2-305-6694)

Remarks:

- The cancellation of the attendance shall be made in written form before the class starts. Or a charge of 40% of the fee shall be imposed for the notice of the cancellation less than 7 working days before the commencement date.
- GPI Asia reserves the right to cancel courses due to unforeseen circumstances.