


# Software Testing Foundation

## Training Overview

Software and hardware testing is a dynamically growing area; vendors and customers of software and hardware components recognize the need of structured and sophisticated testing methods which help them to identify and eliminate bugs more efficiently, make testing time more effective and ensure that the product they create or buy is of the expected high quality.

Software testing is an investigation conducted to provide stakeholders with information about the quality of the product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include, but are not limited to the process of executing a program or application with the intent of finding software bugs (errors or other defects).

**Trainer: Ir. Muhammad Tavip, MPM, Cert.HR (US-Based)**

**WAKTU PELAKSANAAN**

02 - 03 Februari 2027

09:00 - 17:00 WIB

**TEMPAT PELATIHAN**

Location: Kuretakeso Hotel - Kemang / Best Western Premier - Cawang / The Aryaduta Hotel Semanggi

**Harga**

Group Price: Rp 5.350.000
Full Fare: Rp 5.950.000

**) Harga di atas tidak dikenakan PPN 11%, sudah termasuk makan siang, snack, sertifikat, dan modul.*

This Software Testing Foundation training is based on the *ISTQB (International Software Testing Quality Board) Foundation. This training will provides comprehensive first-level training for anyone involved in software testing. It covers the fundamentals of testing: definitions of testing standards, planning, managing the lifecycle, reviews and the tools available. Techniques for creating tests are

described and practised. ***The training incorporates *the ISTQB (International Software Testing Quality Board) Foundation Aligned***.

## Who Should Attend

This training is intended for, i.e.:

- Software Tester engineer
- Software Quality Assurance
- Project Manager
- Software Developer
- Users
- Anyone currently involved in testing or about to move into a testing role will benefit from attending this training

## Training Objectives

The participants will get the knowledge and skills of Software Testing Foundtion. Participants will learn how to:

- Explain the terminology associated with the ISTQB understand the principles and psychology of testing
- Describe verification, validation and the steps in the testing lifecycle
- Produce a project test plan
- Understand the test management lifecycle
- Produce test designs using equivalence partitioning, boundary value analysis and state transition techniques
- Use static techniques to assess quality and coverage
- Appreciate the different tools available for automating testing

## Training Benefits

- All participants will get Software Testing TOOLKIT consisting of Learning Material, References, Process and Templates, Samples of Case Study
- Experienced and Internationally Certificied Trainer will guide participants in Case Study Session using Hands-on Approach

## Agenda and Materials

## DAY 1

**The fundamentals of testing:**

- Why testing is necessary; harm caused by defects in software; root causes; testing and quality assurance; what testing is; general testing principles; fundamental test process and the psychology of testing

**Testing throughout the software life cycle:**

- Software development models; relationship between development, test activities and work products in the development life cycle, project and product characteristics and context; test levels, objectives, typical objects and targets of testing; functional, non-functional, structural and change-related testing; confirmation and regression testing; maintenance testing; regression testing and impact analysis in maintenance.

***EXERCISES AND PRACTICES***

***CASE STUDY***

## DAY 2

**Static techniques:**

- Reviews and the test process; software work products and the different static techniques; importance and value of static techniques; difference between static and dynamic techniques; typical formal review process; different types of review: informal review, technical review, walkthrough and inspection; explain the factors for successful performance of reviews; static analysis by tools; defects and errors identified by static analysis; typical benefits; typical code and design defects identified.

**Test design techniques**

- Identifying test conditions and designing test cases; categories of test design techniques; specification-based (black-box) and structure-based (white-box) approaches; equivalence partitioning; boundary value analysis; decision tables; state transition diagrams, use case testing; structure-based or white-box techniques; code coverage; statement and decision coverage; control flows using statement testing and decision testing; coverage; experience based techniques; choosing techniques.

***EXERCISES AND PRACTICES***

***CASE STUDY***

## DAY 3

**Test management**

- Test organization; independent testing; tasks of typical test leader and tester; test planning and estimation; ‘Standard for Software Test Documentation’ (IEEE 829); typical factors that influence the effort related to testing; estimation approaches (metrics-based and expert-based); test preparation and execution tasks; exit criteria; test progress monitoring and control; metrics and reporting; configuration management; risk and testing; incident reporting and management.

**Tool support for testing**

- Types of test tool; effective use of tools; potential benefits and risks; introducing a tool into an organization

***EXERCISES AND PRACTICES***

***CASE STUDY***

## Instruktur Pelatihan

### Ir. Muhammad Tavip, MPM, Cert.HR (US-Based)

**Muhammad Tavip, Ir., MPM, Cert. HR** pemegang sertifikasi internasional Project Management berdasarkan PMBOK – PMI, USA dan Human Resource Management (US-based), Alumni of Institut Teknologi Bandung (1992) dan Post Graduate Diploma dari University of South Australia, Adelaide (1995). Beberapa Sertifikasi Internasional yang dipegangnya adalah: Project Management (PM)/ITPM, Software Business Analysis (SBA), Systems Analysis and Design (SAD), Software Quality Assurance (SQA), Software Testing Professional (STP), IT Infrastructure Library (ITIL ) (v2, v3 2007, v3 2011), Disaster Recovery Planning (DRP), ISO/IEC 20000 Foundation (edition 2011), Microsoft Project Certified

Memiliki pengalaman lebih dari 15 tahun di bidang IT, Management and Business. Beliau Mengelola Proyek berskala Nasional dan International. Memberikan jasa konsultansi di bidang Project Management dan IT Project Management, Enterprise Project Management using Project Server 2003/2007/2010, Pelatihan dan Konsultansi Implementasi Balanced Scorecard, dan IT Management consulting. Beliau merupakan salah satu pendesain software Balanced Scorecard MBRIO yang telah digunakan beberapa perusahaan swasta berskala UKM.

Beliau berpengalaman lebih dari 10 tahun memberikan pelatihan baik public maupun in-house dan Coaching untuk bidang Manajemen dan IT Management termasuk: Project Management (PM)/ITPM, Software Business Analysis (SBA), Systems Analysis and Design (SAD), Software Quality Assurance (SQA), Software Testing Professional (STP), IT Infrastructure Library (ITIL V2 and V3 ), Disaster Recovery Planning (DRP), IT Risk Management, Information Security Management based on PBI, COBIT 5 Foundation, Operation Management (Supply Chain Management, Logistics Management, Warehouse Management, Inventory Management), Project Financing, HR, Finance/Accounting, Sales/Marketing, ISO/IEC 20000 Foundation, **Penyusunan Pengelolaan Teknologi Informasi berdasarkan Peraturan Menteri BUMN PER02MBU2013** yang mencakup 3 (tiga) dokumen penting yaitu: Tata Kelola Teknologi Informasi (IT Governance) menggunakan COBIT 5, Rencana Induk Teknologi Informasi (IT Master Plan) menggunakan TOGAF 9.1/9.2, Sinergi Teknologi Informasi

Dari tahun 2001 s/d sekarang Beliau telah membimbing lebih dari 5000 para project Manager di Indonesia mempelajari Project Management dan IT Project Management berdasarkan standard defector PMBOK – PMI, USA mulai dari versi 2000, 2004, dan 2008, dan PMBOK 5$^{th}$ edition 2013 (THE NEW PMBOK).

Beberapa klien yang pernah mendapatkan bimbingan/ training/coaching/ konsultasi Project Management/ IT Project Management sejak 2001 s/d sekarang diantaranya adalah:

**PEMERINTAHAN & BUMN:**

Bank Indonesia, PT. Bank Mandiri (Persero) Tbk, PT. Bank Negara Indonesia (Persero) Tbk, PT. Bank Rakyat Indonesia (Persero) Tbk, Depnakertrans, Departemen Dalam Negri, Departemen PU, Departemen Agama, Departemen Keuangan, PLN, BKPM, BPKP, PT. PUSRI, Sekolah Staff Komando Angkatan Laut (SESKOAL). PT. Telkom, PT. Sigma Cipta Caraka, Komisi Pemberantasan Korupsi (KPK), PT. Antam, Tbk, PT. Laras Astra Kartika, PT. Telkom Sigma, dan lainnya

**PERUSAHAAN SWASTA:**

PT. Bank Artha Graha International Tbk, Bank BTN, PT. Bank UOB Buana, Artha Jasa, Kabel Vision, Alcatel, PT. Hindoli (A Cargill Co), Satelindo, Excelcom, Bank Bali, Bank Permata, Tbk, Citra Sari Makmur, PT. Amway Indonesia, PT. Pabrik Kerta Tjiwi Kimia, PT. Astragraphia, Tbk, Metro TV news, PT. Intikom, PT. Bank DKI, Galenium Pharmasia Lab, PT. Unicharm Indonesia, PT. Primacom, PT. Gramedia – Majalah, Swadharma, PT. Data Script, PT. Bank Mega, PT. Astra Oto Parts, Talisman Energy Inc, PT. Berca Hardaya Perkasa, PT. Mandiri Sekuritas, PT. Arutmin, ACC, PT. Sewatama, PT. Jasa Power Indonesia, PT. CTI Group, dan lainnya

**PERUSAHAAN ASING:**

Caltex, Unocal, PWC, Chevron, BHP Billiton, Vico Indonesia, PT. Coats Indonesia, PT. Sumiko Leadframe Bintan, PT. Metlife Sejahtera, Santos Asia Pacific Pty Ltd, German Centre, PT. Thames PAM Jaya, PT. AC Nielsen Indonesia, KPC, PT. Freeport Indonesia, PT. Mattel Indonesia, PT. Bank Rabobank International Indonesia, PT. Roche Indonesia, PT. Nestle Indonesia, PT. Arun LNG, PT. Sinar Meadow International Indonesia, PT. Bank HSBC, PT. Oberthur Indonesia, PT. Bank Woori Indonesia, PT. Bank of Tokyo, PT. Atlas Copo, PT. Bank RBS, PT. AWTG Limited UK, PT. Ericsson Indonesia, dan lainnya

**UNIVERSITAS & LSM:**

Universitas PETRA, STIE Perbanas, Universitas Trisakti, HIV Foundation, Universitas Maranatha, Universitas Satya Wacana, Universitas Atmajaya, World Vision, dan lainnya

## CONTACT US


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