Introduction - Software Application Testing
Training + Coaching **

MIMOS Berhad, Technology Park Malaysia
10 - 12 March 2020 (3-days)

Software testing in general has become more prevalent year by year and this applies to Government Agencies as they strive to adopt ICT into their day to day operations. As the usage of ICT becomes more and more important for the Public Sector, software testing is also moving into the same direction in making sure the developed system is in accordance to what it was meant for at the first place. This is in line with the Malaysian government efforts to regulate the software industry just as other matured industries.

This 3 days' workshop introduces the participants to the idea and concept of Software Testing that comprises of Functional Testing, Mobile Testing, Usability Testing, Data Migration Testing, Performance Testing as well as Security Testing. Participants will learn the importance and the basic methodology used of each test types for better understanding.

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TECHNICAL-TRACK

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LEARNING OUTCOMES

Upon completion of the training programme, participants should be able to demonstrate each of the following:
- Recognize the benefits of software testing as well as its related test types.
- Find out the different test levels and test types used in Software Testing.
- Understand where software testing falls under the Software Development Lifecycle (SDLC).
- Discover the areas that needs to be covered and to be taken care of for Test Management.
- Learn the different categories of test types that can be used or adopted in Software Testing.
- Learn the basic test methodologies used for the different testing types.
- Find out the tools and best practices used for the different testing types.

METHODOLOGY

- This Course will utilize a combination of lecture and discussions with the participants by using realistic use cases as reference point.
- A Post Test shall be held to assess how much knowledge has been acquired by participants.

TARGET GROUP

- Quality Assurance Staff, Test Managers, Test Engineers, Testers
- Project managers, Program Managers, Project Leads, Technical Leads
- Software Development team, Business Analyst.

PRE-REQUISITE

Have knowledge in the following areas:
- Basic understanding of Software Development Lifecycle (SDLC)
- Software Project Management fundamentals
- Minimal exposure to Software Testing.

DAY 1

Module 1 - Introduction to MIMOS Software Testing Laboratory
Module 2 - Introduction to Software Testing
- Software Testing Terminologies
    - i) What is Software Testing?
    - ii) Why is Software Testing necessary?
    - iii) Software testing in Malaysia (regulations)
    - iv) Fundamental Test Process
    - v) Software Development Models (SDLC).
- Test Levels & Types.

Module 3 - Test Management (Part 1)
- Introduction to Generic Software Testing
- Functional, System Testing, System Integration Testing.

DAY 2

Module 4 - Test Management - Introduction to Generic Software Testing (Part 2)
- – Performance Testing
- – Data Migration Testing
- – Mobile Testing
- – Usability Testing.

DAY 3

Module 5 - Test Management - Introduction to Generic Software Testing (Part 3)
- – Security Testing
- – Assessment and Closing
- – Lab Tour (UX lab, Mobile lab and Test in the Cloud).

MIMOS Quality & Software Test Management

OTHER MIMOS TECHNOLOGIES

For further information on our technologies, do visit us at www.mimos.my/tech and download those T*echnology Fact-sheets* relevant to you, or contact fitri.isahak@mimos.my
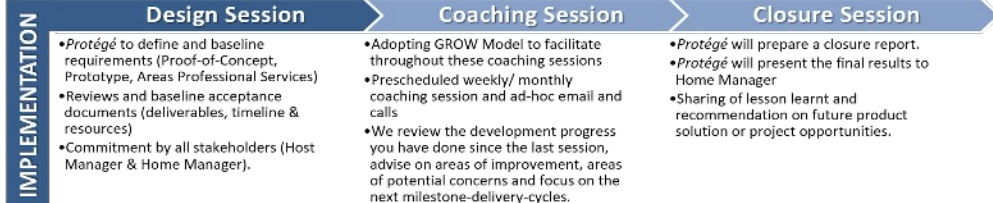
COURSE TIME
08:30 Registration & Morning Coffee
09:00 Workshop Begins
10:30 - 10:45 Morning Refreshment
12:30 Networking Luncheon
13:30 Afternoon Session Begins
15:30 - 15:45 Afternoon Refreshment
17:00 - 17:30 Course Concludes

CONSULTANCY/ COACHING MODEL *(**Optional)*

MODEL GROW – COACHING FOR PERFORMANCE FROM 'AS-IS' TO 'TO-BE'

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GOAL
What do you want?

Establish clarity for the session and the objectives

REALITY
Where are you now?

Describe and examine the current status

OPTIONS
What are the options?

Explore all possible solutions and make choices

WAY FORWARD
What are the steps?

Commit to actions in order to move towards the goal

A way of managing, a way of treating people, a way of thinking, a way of being, a way we relate to one another at work.

IMPLEMENTATION

Design Session	Coaching Session	Closure Session
• *Protégé* to define and baseline requirements (Proof-of-Concept, Prototype, Areas Professional Services) • Reviews and baseline acceptance documents (deliverables, timeline & resources) • Commitment by all stakeholders (Host Manager & Home Manager).	• Adopting GROW Model to facilitate throughout these coaching sessions • Prescheduled weekly/ monthly coaching session and ad-hoc email and calls • We review the development progress you have done since the last session, advise on areas of improvement, areas of potential concerns and focus on the next milestone-delivery-cycles.	• *Protégé* will prepare a closure report. • *Protégé* will present the final results to Home Manager • Sharing of lesson learnt and recommendation on future product solution or project opportunities.

> ****Note:** *Upon completion this 3-days training, participant's has an option to take up MIMOS Consultancy Services (2-4 months MIMOS Coaching Program) through our structured MCP (with a consultancy fee). If you are interested, do contact us for further details.*

INSTRUCTOR PROFILE

Ashok Sivaji (Test Manager – Usability testing), he works as the UX/Usability Lab Lead. He is a certified usability analyst and has served as the Vice President of the Human Factors and Ergonomics Society of Malaysia. As a Certified Professional for Requirement Engineering (IREB-CPRE), he has also acquired experience in Static Testing. With over 20 years of experience, he has successfully completed UX/Usability research for government and multinational organizations. He has successfully published his research in both international conferences, journal, book chapters and through patents. Over the years, he has gained experience in improving the usability/user experience of E-Government, E-Commerce and E-Learning websites and application.

Azlan Deniel (Test Manager – Performance testing), he has more than 20 years of experience with 15 years' experience in software testing. Exposed to performance testing hands-on since 2009 and worked on multinational projects especially on e-commerce websites. A certified professional in Requirement Engineering as well as certified tester with exposures in multiple areas such as Telecommunication, Government and Private sectors.

Saiful Hizam (Test Manager – Data testing), he has more than 19 years of experienced in IT-BSS industry. Involved and successfully delivered several of BSS implementation project in Asia Pacific. This is related to Data Migration, System Implementation and Greenfield deployment projects. As a certified BSS System Integrator, he has delivered one or many of the following services of configuration, integration, customized software adaptation and support of product in accordance with customer service contract.

Mohd Noor Julaini (Test Engineer – Security testing), he has more than 7 years of working experience in Security Posture Assessment(SPA), IT security and networking system related fields, covering vulnerability assessment and penetration testing (VAPT), wireless security assessments, network design/architecture review, IT policy review, host assessment, web application security assessment, mobile application security assessments, web application firewall(WAF) deployment, IPv6 readiness and deployment. Throughout his career, he has been exposed to various industries including financial institution, telecommunication and government. In addition, Mohd Noor Julaini is holding several professional certifications such as CyberSec First Responder (CFR), Certified Ethical Hacker(CEH), Huawei Certified Network Associate(HCNA) and DenyAll rWeb(DenyAll) certified by French IT security.

Fazil Zainal (Test Lead – Functional testing), he has more than 19 years of working experience with 5 years' experience in software functional testing. Throughout his career, he held various roles in system development life cycle (SDLC) projects with various sectors including government, private and GLC.

He is a certified tester with ISTQB Certified Tester Advanced Level – Test Manager (CTAL-TM).

Chuan Ngip Khean (Test Lead – Mobile testing), Chuan has more than 13 years of experience in software development, and software and hardware testing. Chuan is involved in software testing since 2012. He is a Certified Professional Advanced Level - Technical Analyst (CTAL-TA) and a Certified Processional Requirement Engineering - Foundation Level (CPRE-FL) engineer.

Starting with user experience, he is involved in setting eye tracking for user testing for mobile devices. He is also experienced in human-computer interaction research for gesture use in mobile devices. In terms of IVV mobile automation testing, Chuan is the lead that have set up the laboratory mobile automation platform.