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## Introduction

Method validation is the process that provides evidence that a given analytical method, when correctly applied, produces results that are fit for purpose. It is essential to understand method validation if you want to make sure that your analytical results are accurate.

This course explains the general principles of method validation and demonstrates some practical techniques that can be applied in the analytical laboratory.

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## Objectives

At the end of the course, participants are expected to:

1. Describe the process of method validation
2. Identify factors that are significant for valid analytical measurements;
3. Select and use the appropriate types of method validation studies
4. Design an analytical method validation study
5. Be able to apply the necessary statistical tools for the evaluation, interpretation and reporting of validation data

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## Who Should Attend

This course is suitable for analytical laboratory personnel who are directly involve in method development and method validation.

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## Course Contents

### Day 1

- What is Method Validation?
- When should methods be validated?
- Regulatory requirement
- Method development
- Statistics for method validation
- Ad-hoc analysis and non-routine analysis
- Analytical Parameters for method validation
  - Selectivity / specificity, Precision, Repeatability, Reproducibility

### Day 2

- Trueness
- Measurement Uncertainty
- Reference material
- Bias Measurement
- Linearity and range
- Detection limit

### Day 3

- Quantitation Limit
- Robustness
- Ruggedness
- Sensitivity
- Using method validation data
- The tools of validation
- Statistical Tools for calculations of *critical t-test, F-test, Dixon's Q-test, t-test for sample means, LOD, LOQ, Regression line, correlation coefficient, confidence limits of slope, of intercept,*
- Method validation for the Determination of total Mercury in water.

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## Course Presenter

**DR. STEPHEN WONG KAM SUN** – is a HRDC Accredited Trainer and an IQM Certified Expert in ISO/IEC 17025:2017 Standard for Testing, Calibration, and Sampling laboratories. He is a competent Quality Consultant, Trainer and qualified Lead Assessor/Auditor for both ISO 9000 and ISO/IEC 17025.

He is also an effective business management trainer. He holds at least six degrees/professional qualifications, namely, PhD (Sunway University), MBA degree (University of Wales, UK), Chemistry degree (University Malaya), Diploma in Marketing (CIM, UK) and Certified Diploma in Accounting & Finance (ACCA, UK). He has 38 years of management & training experience, including 32 years in quality training and consultancy.

He was the Hon. Secretary (16 years) for the Institute of Quality Malaysia, an approved Quality Trainer for SIRIM and a Quality and Management Consultant to many companies in Malaysia. He was a Council Member of the Malaysian Institute of Management and a well-recognized trainer for MIM. He was also the Gen. Secretary of Malaysia Register of Certificated Auditors (MRCA).

He was a member (1991-2002) of the Malaysian National Accreditation Council of the Department of Standards Malaysia and sat on seven other national committees on ISO. Dr. Stephen Wong had been a key member of the TC 176 and TC 207 national committees responsible to CASCO for the development of the ISO 9001, ISO/IEC 17025 and ISO 14001 standards and other conformity assessment standards. He was also a member of the IATCA (now IPC) representing MRCA in the development of the ISO 19011 Auditing Standard for the ISO 9001 and the ISO 14001.

## Registration Form

Please register the following for the course on "Method Validation for Analytical Laboratory"

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

*(please attached extra list if more than two participants)*

Name & Address of Company:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Contact Person: \_\_\_\_\_

Designation: \_\_\_\_\_

Tel: No: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Method of Payment:

Please made cheque payable to **WKS HOLDINGS SDN BHD** or transfer the payment to our **Public Bank account no: 3078894831** and send us a copy of the transfer slip.

Payment by HRDC grant must be approved before training starts.

WKS reserves the right to cancel or postpone the course in the event of unforeseen circumstances.

## Registration Guidelines & Procedures

1. Early registration is encouraged. Participants shall be registered on a first-come-first-served basis.
2. Register by completing attached form and return by e-mail to [admin@wks-h.com](mailto:admin@wks-h.com)
3. Payment of fee should be made 4 days before course commence.
4. Please made cheque payable to WKS HOLDINGS SDN BHD or transfer the payment to our Public Bank account no: 3078894831 and send us a copy of the transfer slip.
5. Notification of cancellation must be in writing received 4 working days prior to commencement of course (20% of course fee will be retained). Otherwise, full fee will still be charged.
6. WKS reserves the right to cancel or postpone the course in the event of unforeseen circumstances. However, in such an event, participants would be informed as early as it could possibly permit.

**WKS HOLDINGS SDN BHD** (198401017072)

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# METHOD VALIDATION for Analytical Laboratories

**(can also be applied to Halal Laboratories)**

## Administrative Details

Date: 27 – 29 July 2026

Time: 0900 – 1700

Venue: Plaza Mayang,  
Petaling Jaya

Fees: RM 1,650 per participant  
HRDCorp Claimable Course

Organized & Management by

**WKS HOLDINGS SDN BHD**



Reg. No. : Q109988-1