

# VIRTUAL HALF DAY COURSE ON QUALITY CONTROL STARTS WITH CALIBRATION: A COMPREHENSIVE GUIDE TO CALIBRATION PROCEDURES

Organised by :  
Education Engineering Technical Division, IEM

BEM Approved CPD : 4                      Ref. no : IEM23/HQ/106/C (w)

DATE : 20 MAY 2023, SATURDAY

TIME : 9.00AM - 1.00PM

ONLINE PLATFORM

SPEAKER :

Ir. Ts. SUKHAIRUL NIZAM BIN ABDUL RAZAK



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CLOSING DATE:  
13 MAY 2023

	<b>ONLINE</b> (Log-in for registration & payment: <a href="http://www.myiem.org.my/member/login.aspx">www.myiem.org.my/member/login.aspx</a> )	<b>NORMAL FEE</b> (by fax & email) Payment by cash, credit card and bank-in
IEM Student Member	40.00	50.00
IEM Graduate Member	75.00	90.00
IEM Corporate Member	125.00	150.00
Non-IEM Member	240.00	300.00

Register Online at [www.myiem.org.my](http://www.myiem.org.my)

# **COURSE SYNOPSIS**

Calibration is essential for ensuring the accuracy and reliability of equipment used in various industries, from automotive to academic and research settings. It is a critical part of quality control, allowing manufacturers to produce consistent and high-quality products. This half-day virtual seminar will provide a comprehensive guide to calibration method and standard, to preparing equipment for calibration, performing the calibration, and documenting the results. Participants will learn about the importance of regular calibration, as well tips and tricks for efficient and compliant calibration processes. The seminar will also cover advances in calibration technology and how to stay ahead of the curve in the ever-evolving landscape of equipment calibration. This seminar is ideal for quality control professionals, equipment technicians, and anyone involved in the calibration of critical equipment.

## **WHY SHOULD YOU ATTEND THIS SEMINAR ?**

This seminar will cover the key aspects of the calibration stages and key activities carried out along with major milestones of automotive development. Concepts covered:

- Importance of calibration in the automotive industry.
- Types of equipment that require calibration.
- Calibration methods for different types of equipment.
- Calibration standards for automotive equipment.
- Preparing equipment for calibration.
- Performing calibration and recording results.
- Adjusting equipment and retesting if necessary.
- Documenting calibration procedures and maintaining records.
- Calibration schedule and frequency.
- Benefits of regular calibration in the automotive industry.

Quality control professionals, engineers, technologist, equipment technicians, and anyone involved in the calibration of critical equipment should attend this seminar because calibration is an essential aspect of ensuring the accuracy and reliability of critical equipment used in various industries. As professionals are often involved in the design, development, and maintenance of this equipment, they need to have a solid understanding of calibration procedures to ensure that the equipment is functioning as intended and producing accurate results.

# AREAS COVER IN THIS SEMINAR :

Below is the topic will be cover:

- You will gain valuable insights into the importance of regular calibration, how to choose the appropriate calibration method and standard, and how to perform and document the calibration process.
- You will also learn about advances in calibration technology and how to stay ahead of the curve in the ever-evolving landscape of equipment calibration.
- You will also improve knowledge and skills related to calibration procedures, which will enable to make informed decisions about equipment design, maintenance, and performance. This, in turn, can help to ensure that the products you produce are of the highest quality and meet the required standards and regulations.

## SPEAKER'S PROFILE

**Ir. Ts. Sukhairul Nizam Abdul Razak** received his early education at SMK Methodist ACS Klang Selangor, UTM Skudai where he earned a Bachelor of Mechanical (Aeronautical) Engineering degree. He later completed an MBA from Charles Sturt University Australia. He is registered as an Asean Chartered Professional Engineer (ACPE), Professional Mechanical Engineer with practicing certificate (PEPC) with Board of Engineers Malaysia and registered as Professional Technologist with MBOT. He is also an assessor for EAD (ETAC & EAC) with the Board of Engineers Malaysia (BEM) and an assessor for TTAC MBOT.

He began his career at Proton Manufacturing in 1995 as an R&D body design engineer, and subsequently held various positions in Proton Edar for nearly 18 years, including Car Body Design Engineer, Branch Sales Manager, Manager Sales Standard, Manager Warranty Operations, Manager Equipment Tools & Calibration, and Head of Division Office. He also worked with Accenture Malaysia for Daimler Group. In addition, he served as a Senior Lecturer for City University Malaysia, a lecturer for First City University College, and as a Director for Enviroklar Tech Sdn Bhd.

Ir. Ts. Sukhairul Nizam has experience in designing and developing automotive components as well managed anti-corrosion and painting development, aerodynamic development, and crash test development for the national car company. He is also specialized in automotive project management, sales training, or coaching, and managing product recalls for the automotive industry.

# COURSE TIMETABLE

TIME	DESCRIPTION
9.00 am – 10.00 am	<ul style="list-style-type: none"> <li>• Standard Operation Procedure (SOP) for Tools and equipment's management by automotive workshop or laboratory               <ol style="list-style-type: none"> <li>i. Purpose,</li> <li>ii. Scope,</li> <li>iii. Definitions,</li> <li>iv. Frequency,</li> <li>v. Responsibilities,</li> <li>vi. Procedure instructions of equipment and tools usage, equipment, and tools repair.</li> </ol> </li> </ul>
10.00 am – 11.00 am	vii. Calibration and maintenance of workshop measuring equipment and tools
11.00 am – 11.15 am	Break
11.15 am – 12.00 noon	<ul style="list-style-type: none"> <li>• Flow chart               <ol style="list-style-type: none"> <li>i. Equipment and tool usage</li> <li>ii. Equipment and tool repair</li> <li>iii. Calibration and maintenance of workshop measuring equipment and tools.</li> </ol> </li> </ul>
12.00 pm – 1.00 pm	<ul style="list-style-type: none"> <li>• Various examples of supporting documents on managing equipment and tools</li> </ul>
1.00 pm	<ul style="list-style-type: none"> <li>• Conclusion and End of Half Day Workshop</li> </ul>

### **Cancellation Policy**

No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with 7 days prior notification and substitute will be charged according to membership status.

### **Personal Data Protection Act**

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.

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## REGISTRATION FORM

**VIRTUAL HALF DAY COURSE ON  
QUALITY CONTROL STARTS WITH CALIBRATION:  
A COMPREHENSIVE GUIDE TO CALIBRATION PROCEDURES  
20 May 2023 (Saturday) -  
Closing Date : 13 May 2023**

No	Name(s)	Email	Membership No.	Grade	Fee (RM)
SUB TOTAL					
+ 6% SST					
TOTAL PAYABLE					

### PAYMENT DETAILS :

Cash RM \_\_\_\_\_

Cheque no. \_\_\_\_\_ for the amount of RM \_\_\_\_\_ (non-refundable) .

**FULL PAYMENT must be settled before commencement of the course**, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. The Registration Fee includes lecture notes, refreshment and lunch.

For **ONLINE REGISTRATIONS**, please note that payment **MUST** be made **BEFORE the closing date**. If payment is not received within the stipulated time, the registration fee will be reverted to the normal registration fee.

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

Name of Organization: \_\_\_\_\_

Address : \_\_\_\_\_

Telephone No. : \_\_\_\_\_ (O) \_\_\_\_\_ (Fax No.)

\_\_\_\_\_ (H) \_\_\_\_\_ (HP)

Email : \_\_\_\_\_

\_\_\_\_\_  
Signature & Stamp

\_\_\_\_\_  
Date