



**NIQ ENGINEERING SDN BHD**  
MEE SERVICES & TRAINING PROVIDER  
REG. #: (538098H)



# **ELECTRICAL SAFETY TESTING COMPLIANCES WITH IEC 60601-1**

**HRDC REG. COURSE #: 10001149851**

**MBOT CPD Points: 12**



## **Competency Examination**

Malaysian Electromedist  
Association - MEA

## **Certification**

- Competency - MEA
- Attendance – NIQ

## **For**

- Electromedist
- Biomedical Engineer
- Technologist
- Technical Manager
- Medical Electronic Lecturer
- Student

## **Fees**

RM1,500.00 per pax

\*Students gets special discount of 50%



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**WWW.NIQENGINEERING.COM**



MORE INFORMATION CONTACT US  
**+60146969155**  
**SALES@NIQENGINEERING.COM**

## Objectives

- UNDERSTAND THE TESTING PARAMETERS CIRCUIT DIAGRAM.
- AWARE OF THE IMPORTANCE OF THE ELECTRICAL SAFETY TEST.
- UNDERSTAND THE IEC 60601.1 STANDARD.
- IDENTIFY THE ERROR (LEAKAGE CURRENT).
- ABLE TO DEVELOP AN EST CHECKLIST.
- ABLE TO PERFORM CORRECT TESTING.
- INTERPRET THE EST TEST RESULT.

## About the trainer

Mr. **Tc. Nik Zaidi Nik Bulyamin** is the founder of **NIQ Engineering Sdn Bhd**. He is also wellversed in electro-medical equipment testing equipment with 24 years of experience in the field. Factory-trained personnel for Dynatech Nevada Inc., Clinical Dynamics Corporation, and Michigan Instrument Incorporation in the USA. Besides managing his own business, he also conducted his training such as Familiarization with Electromedical Test Equipment and Electrical Safety Test Training the training included national and international. His completion project that has done is the Electromedical Calibration Laboratory for Sri Comm Instruments Sdn Bhd, complete setup for the Electromedical Calibration Lab for NIQ Engineering Sdn. Bhd. He is also a certified trainer from HRDF (human resource department fund) and a chairman of the working group for MS: IEC60601-1 and IEC 61010-1 with SIRIM Malaysia. Competency Committee with Medical Device Authority of Malaysia. Exemplar Certified Lead Auditor for Quality Management Systems and Anti-Bribery Management Systems.



It was determined that healthcare professionals had a low level of knowledge about calibration, used non-calibrated medical devices, and did not receive training on calibration. It is recommended that calibration should be introduced as a subject in both the university curriculum and in-service training programs for healthcare professionals

(Yayan & Zengin, 2020).



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# Tentative of Program



## Day 1

08:00	REGISTRATION
09:00	ICE BREAKINGS AND PRETEST
09:30	CH 1 - ELECTRICAL, MICRO & MACROSHOCK
10:45	LUNCH BREAK
11:00	CH2 - IEC 60601-1 ELECTRICAL SAFETY SYANDARDS
13:00	LUNCH BREAK
14:00	CH3 - TESTING PARAMETERS DIAGRAM
15:30	BREAK
16:00	CH4 - TESTING PARAMETERS DIAGRAM
17:00	DISMISSAL

## Day 2

08:30	CH5 - HANDSON
10:30	BREAK
10:45	REVISION
13:00	LUNCH BREAK
14:30	EXAMINATION PAPER 1
15:30	EXAMINATION PAPER 2
17:00	DISMISSAL



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No Siri: 538098H



## TRAINING PROVIDER REGISTRATION CERTIFICATE

AKTA PEMBANGUNAN SUMBER MANUSIA BERHAD, 2001

**NIQ ENGINEERING SDN BHD**

*is hereby registered as a training provider under*  
**PEMBANGUNAN SUMBER MANUSIA BERHAD**

APPROVAL DATE	EXPIRY DATE
02/11/2024	01/11/2025

This approval is subject to the current terms and conditions of  
**Pembangunan Sumber Manusia Berhad**

21/10/2024

Release Date

PEMBANGUNAN SUMBER MANUSIA BERHAD



**DELIVERING QUALITY, DEVELOPING EXCELLENCE**