



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



ELECTRONIC COMPONENT SPECIFICATION AND TESTING TECHNIQUE

HRDC REG. COURSE #: 10001530646

Certification

- Attendance – NIQ

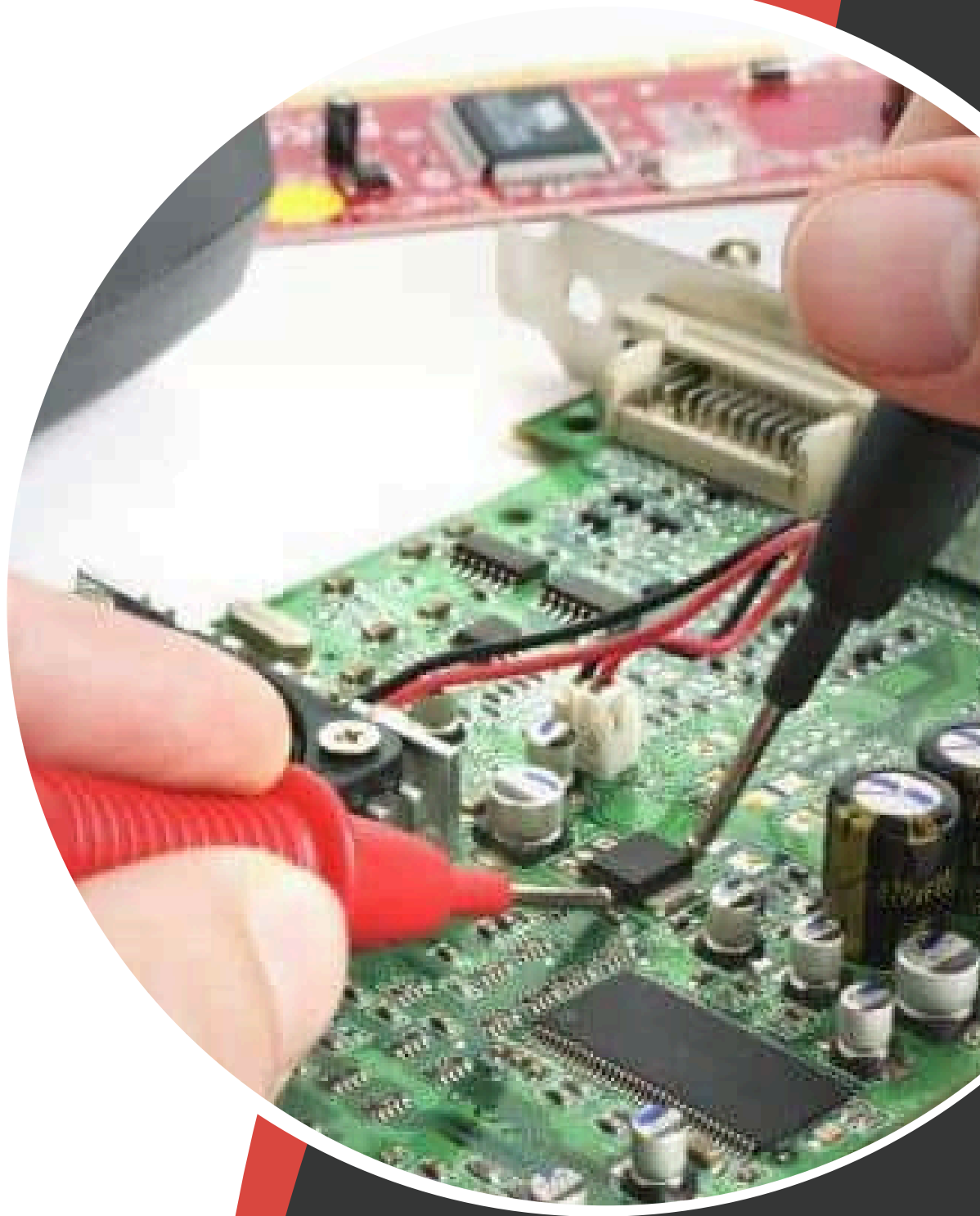
For

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

Fees

RM2000 per pax

*Students gets special discount of 50%



VISIT OUR WEBSITE
WWW.NIQENGINEERING.COM



MORE INFORMATION CONTACT US
+60146969155
SALES@NIQENGINEERING.COM

Introduction

- NIQ Engineering Sdn Bhd is Registered HRD Corp Training Provider, MBOT and MEA Approved Training Provider located in Pinggiran Subang Shah Alam Selangor.
- we provide equipment repair / maintenance training program for Electronic, Electrical & Biomedical equipment up to component level repair. Most of our training programs are HRDF Claimable program.

Electronic Component Specifications and Testing Technique.

Most engineers and technicians prefer to perform equipment-level repair or PCB-level repair by **immediately purchasing** new equipment or defective PCBs. The budget required for this ranges from **RM500 to RM10,000 for new PCBs or RM5,000 to RM20,000 for new equipment**. In contrast, performing component-level repair, which involves repairing the board and replacing faulty components, requires a budget between **RM10 and RM200** to resolve the equipment problems. By opting for component-level repair, **cost savings of more than 100 times** can be achieved compared to purchasing new PCBs or equipment.

Aligning with our vision to develop local expertise up to component-level repair as PCB Repair Specialists, NIQ Engineering Sdn Bhd, an HRD Corp Training Provider & MBOT Approved Training Provider, will conduct Component Level Repair training to enhance engineers' and technicians' knowledge, skills, and techniques related to component-level repairs.

Course Modules

- Identification of component specification based on available information on component body
- Generate datasheet PDF of component specification through internet or data books
- Testing and verify status of components using digital Multimeter, LCR Meter and Curve Tracer.
- Comparison wave form / data reference to verify status of components.
- Summarize waveform and data reference of each components.

Trainer of Program

Tc. Ahmad Kamil bin Abdul Kaiyem is Accredited / Certified from HRD Corp Malaysia with working experiences more than 20 years in equipment repair and maintenances.

Learning Outcomes

- Understanding of electronic component specification and testing technique.
- Applying components testing and safety procedure.
- Perform testing and measurement of electronic components using Multimeter and Curve Tracer.
- Analyse signal data and waveform reference to verify component status .
- Create electronic component testing checklist according to board required..



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Tentative of Program (TBC)

Duration: 2 Days

Day 1

08:30	Introduction to Training Module
09:00	Pre Test - Examination
09:30	Practical 1- Identification of Component Specification based on available information on component body
10:45	Coffee Break
11:00	Practical 2- Generate datasheet PDF of Component Specification through Internet or data books
12:00	Practical 3 – Perform Testing , measurement and verify status of components using Digital Multi Meter <ul style="list-style-type: none">• Passive Component / Fusible
13:00	Lunch Break
14:00	<ul style="list-style-type: none">• Single Diode , Dual Diode , Bridge Diode and Zener Diode
15:30	Coffee Break
15:45	<ul style="list-style-type: none">• Bipolar Transistor & Darlington Transistor , Mosfet
17:00	Dismissal

Day 2

08:30	Practical 4 – Perform measurement and verify status of components using LCR Meter <ul style="list-style-type: none">• Passive Components
10:00	Coffee Break
10:15	Practical 5- Perform Testing and verify status of component using Curve Tracer / Huntron Tracker / Fault Detector <ul style="list-style-type: none">• Capacitance / Diodes and Zener Diode /Transistors/SCR
13:00	Lunch Break
14:00	Practical 6 - Testing and verify status of component using Curve Tracer / Huntron Tracker / Fault Detector <ul style="list-style-type: none">• Triac and Mosfet
15:00	Practical 7 – Perform Testing and verify status of components using DC <ul style="list-style-type: none">• Power Supply
15:30	Coffee Break
15:45	Practical 8 - Create electronic component testing checklist according to board required.
16:30	Post Test -Examination
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