



ELECTRONIC EQUIPMENT PROBLEMS IDENTIFICATION TESTING AND REPAIR TECHNIQUE

HRDC REG. COURSE #: 10001530828

Certification

• Attendance – NIQ

For

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

Fees

RM3000 per pax *Students gets special discount of 50%



+60146969155 SALES@NIQENGINEERING.COM

MORE INFORMATION CONTACT US





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.

Trainer of Program

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

ELECTRONIC EQUIPMENT PROBLEMS IDENTIFICATION TESTING AND REPAIR TECHNIQUE

Most of the equipment contains electronic components essential for operating electronic systems. After 2-5 years, these systems may encounter issues due to faulty parts on electronic circuit board assemblies, such as Power Supply boards, charger boards, main boards, controller boards, and display boards. Additionally, elec-trical components like AC Motors, DC Motors, Display Units, and Heater Assemblies may also experience fail-ures. Engineers and Technicians must possess the knowledge and experience required for troubleshooting, testing, verifying, and repairing defective equipment.

In line with our vision to develop local expertise on equipment repair, we are offering electronic equipment Repair training to enhance the knowledge, skills, and techniques of engineers and technicians in equipment repairs.

Learning Outcomes

- Illustrate basic block diagram, operation and circuit function of of electronic equipment.
- Construct Troubleshooting, Testing and Repair technique of electronic equipment.
- Measure the signal, Voltage and frequency of electronic circuit using Digital Multimeter, Scope meter and Huntron Tracker.

Course Modules

- Theory / Quiz
 - Understanding of basic block diagram, circuit functions and Identifying common problems & symptoms in electronic equipment.
- Summarize common problems /symptoms in Power Section, Control Section and Output Section of Electronic equipment.

VISIT OUR WEBSITE WWW.NIQENGINEERING.COM

MORE INFORMATION CONTACT US

+60146969155 SALES@NIQENGINEERING.COM

- Safety Guide
 - Applying safety protocols and tips during equipment troubleshooting and testing.
- Practical
 - Application of digital multimeters, curve tracers, and scope meters.
 - Testing and verifying the status of power supply boards and controller boards.
 - Testing and verifying the status of parts assembly.
 - PCB repair techniques.
 - Electronic component and IC testing

Tentative of Program (TBC)

Duration: 3 Days

Day 1

08:30	Introduction to Training Module
09:00	Pre Test - Examination
09:30	Introduction to Electronic Equipment block diagram , common assembly parts and circuit function
10:45	Coffee Break
11:00	Practical 1 - Generates Basic Electronic Equipment Block Diagram – LCD Monitor/ UPS / Industrial machine
12:00	Practical 2- Analyse Common problems and symptoms-Power Section
13:00	Lunch Break
14:00	Practical 3 - Analyse Common problems and symptoms- Main Controller
15:00	Practical 4 - Analyse Common problems and symptoms- Sub Controller
15:30	Coffee Break
15:45	Practical 5 - Analyse Common problems and symptoms- Output Devices
17:00	Dismissal
12	

Day 2

	08:30	Protocols and safety guide for PCB/Equipment Testing
	09:30	Demo of Power Supply Testing
	10:00	Coffee Break
	10:15	Practical 6- Perform Switch Mode Power Supply Testing and Verification Technique
-	11:30	Practical 7 - Perform Basic Microcontroller using PIC Software - Testing and Verification Technique (Good / Bad IC Controller)
_	13:00	Lunch Break

14:00	 Practical 8 – Perform Assembly part Testing and Verification Technique AC Filter / Solid State Relay / Triac Assembly AC Motor / DC Motor / Heater Assembly
15:15	Coffee Break
15:30	Practical 9 - PCB Repair Technique - DC Motor Driver
17:00	Dismissal



MORE INFORMATION CONTACT US

+60146969155 SALES@NIQENGINEERING.COM

Tentative of Program (TBC)

Duration: 3 Days

Day 3

08:30	Practical 10- Electronic Component Testing
10:00	Coffee Break
10:15	Practical 11- IC Digital Testing
11:45	Practical 12- IC Analog Testing
13:00	Lunch Break
14:00	Practical 13 – Summarize common problem & symptoms in Electronic Equipment Repair
15:30	Coffee Break
15:45	Review / Q & A
16:30	Post Test -Examination
17:00	Dismissal

+60146969155 SALES@NIQENGINEERING.COM

MORE INFORMATION CONTACT US



TRAINING PROVIDER REGISTRATION CERTIFICATE

HUMAN RESOURCE DEVELOPMENT CORPORATION

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

No Siri: 538098H

02/11/2024

01/11/2025

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

