

# INDUSTRIAL ELECTRONIC REPAIR TRAINING

## Company Profile

**Ingress Malaysia** is a well-known company over 15 years experience in Industrial Electronic Repairing Works. The key competitive of Ingress Malaysia lies in its strong technical effort to cooperate within the internal operation and outdoor technical team.

Ingress Malaysia has developed to become a Training Center to produce more skills Electronic Repairers to fulfill the shortage of electronic repairers in Malaysia.

## OBJECTIVE

- To gain basic knowledge in industrial electronics and identify components.
- To learn basic testing for industrial electronics components.
- To learn basic troubleshooting for industrial electronics devices.
- To learn safety tips in handling electronics components, devices and circuit boards.
- To learn how to maintain and refurbish printed circuit boards (PCB).
- To learn the proper way of soldering and de-soldering Components.
- To learn the common errors of every electronic device.
- To learn how to use electronics measurement devices such as multi meter.
- To alleviate cost of electronics repair and perform basic in-house repairs.

**3 DAYS TRAINING  
LEVEL 1**

**INDUSTRIAL  
ELECTRONICS  
REPAIRS**

• Engineers, Technicians, Debugger, Students and Non-Technical personnel who wish to broaden their knowledge in test and repairs of Industrial Electronics.



## Course Description

- This course is designed for engineering personal who needs additional practice and technical skills to succeed in electronics debuggings include learning how to approach a good maintenance in electronics and also to troubleshoot and identify faults on PCs.
- Our approach on **Hands-On** training which is equipped with Multimeter, Variable Power Supply, Soldering Stations, Basic Components and PCB Boards.
- Upon completion of the course, the participants will be given theory and practical exam to test their skills. Certificate will be given for all participants who have passed the theory and practical exams.

## Learning outcome

In this 3 days training course, participants will learn basic theories of electronics such as :

- ❖ General Safety Precautions in Electricals Works
- ❖ Introduction to Testing Equipment
- ❖ Introduction to Circuit Boards
- ❖ Ohm's Law : Correlation of  $V=I.R$
- ❖ Power Dissipation Concepts & Formulas
- ❖ Testing Devices while in Operation
- ❖ Safety of Soldering for PCBs
- ❖ Cleaning and Maintaining PCBs

**\*Fully Hands-On Training\***



## PROFESSIONAL TRAINER

Mr. Sivadas Kunjan was holding a General Manager in a Manufacturing field for over 30 years and have been actively conducting electronic training for more than 10 years.

HRDF / PSM Certified (TTT) Train the Trainer  
DOSH / JKPP Certified

Compliance to: ISO9002:2000 & EMS14000:2008,  
OHSAS 1800:2007

Master of Science in Engineering Management

## KEY MODULE

D A Y 1	9.00am - 12.30pm	# Occupational Safety and Health Act 1994 Regulations # Introduction to Basic Electronics Theory # Components Identification and functions(HO)
	12.30pm - 5.00pm	# How far new technology has surfaced in the world # Learn the type of Basic Electronics Components (HO)
D A Y 2	9.00am - 12.30pm	# How to use Multimeter (HO) # How to check components faulty(HO) # Component - value identification and part number (HO)
	12.30pm - 5.00pm	# Method of de-soldering and soldering on faulty components
D A Y 3	9.00am - 12.30pm	# Troubleshoot and identify faulty components on PCB(HO) # Q&A
	12.30pm - 5.00pm	# Theory Exam 50 questions # Practical Test Exam # Certificate Presentation

## INGRESS CONTROL SYSTEMS (M) SDN BHD

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