Please *CLICK HERE* to download the registration form & learn about the pricing. Kindly fill it up and fax / e-mail it to us.

You can register 2 weeks earlier prior to the Training Date to benefit from an earlybirds discount!

HQ:
5-6, Jalan USJ 9/5Q, Subang Business Centre, 47620 UEP Subang Jaya, Selangor, Malaysia

Selangor Office:
36, Jalan Puteri 5/12, Bandar Puteri, 47100 Puchong, Selangor.

Penang Office:
44A Jalan Besi, 11600 Green Lane, Penang, Malaysia.
+604-6192582
+604-6192583

Liking our *FACEBOOK PAGE* will entitle you to 2% discount as well!

QR CODE

INDUSTRIAL ELECTRONIC REPAIR
Level 1
TRAINING COURSE

WEBSITE
https://www.fictron.com
https://www.fictron.net
https://www.fictron.biz

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- FICTRON TWITTER
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EMAIL
sales.co@fictron.com
sales@fictron.com
training@fictron.com

BUSINESS HOURS
Monday - Friday
9:00 AM - 6:00 PM
Saturday - Sunday Closed
*Closed on Public Holiday

DIFFICULTY LEVELS

BEGINNER

A BEGINNER in the electronics field, is considered one whom may have a small knowledge of electricity or may know nothing at all. Such individual would need to learn about electricity, circuitry, how components function in an electrical circuit, and so on to advance in this field.

Although the BEGINNER INFORMATION IS EASY TO OBTAIN, a fundamental and proper understanding of them will go a long way in understanding more complicated topics later on in more advanced courses.

INTERMEDIATE

THE INTERMEDIATE LEVEL in electronics engineering is considered to be the level of an individual whom has at least a diploma in electrical engineering, or has been repairing or building electronic circuits as a hobby.

At this level, one would know about the function of components and how to build different smaller scale circuits with them. In the intermediate level, electronic topics become wider and slightly more difficult to understand.

Therefore, BUILDING THE RELEVANT CIRCUIT of every topic is crucial to a deep understanding of higher level discussions and problems later on.

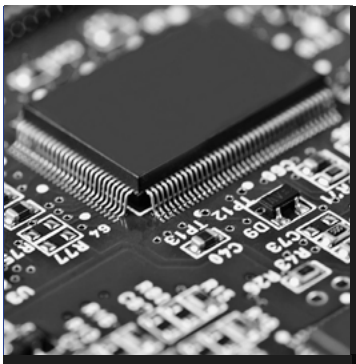
ADVANCED

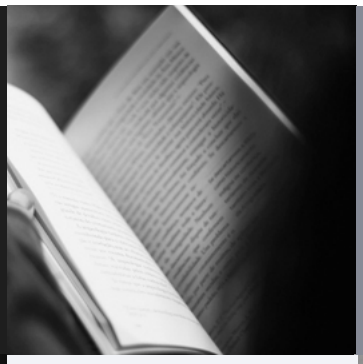
THE ADVANCED LEVEL in electronic engineering field belongs to individuals whom have finished their bachelors or masters in electronic engineering and have finished quite a few projects in this field.

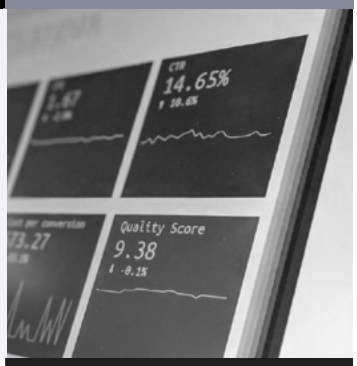
SUCH ENGINEERS are capable of designing and repairing high-level electronic systems and have no problem tackling different types of electronic circuits. They can learn the methods of repair very quickly and benefit the most from our courses.

As a result of their advanced level of knowledge, it helps to save time when explaining different methods of repair and advanced circuitry.

CONTENT





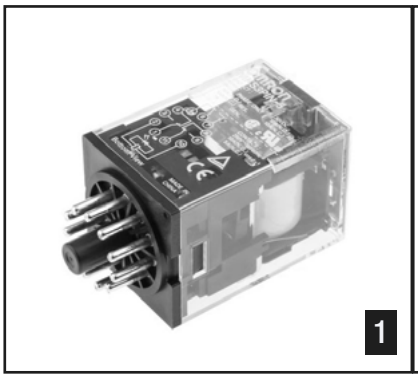


FICTRON INDUSTRIAL SUPPLIES
Serving Industrial Needs

INTRODUCTION

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

- General Safety Precaution in Electrical 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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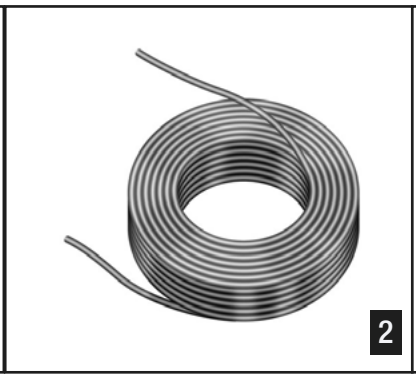
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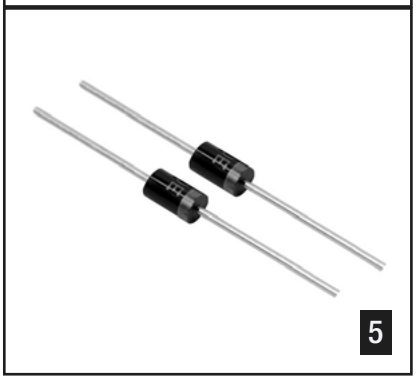
3

INTRODUCTION

This training course is designed in balance of both theory and practical aspects of industrial electronics, with more emphasis on practical testing of components:


4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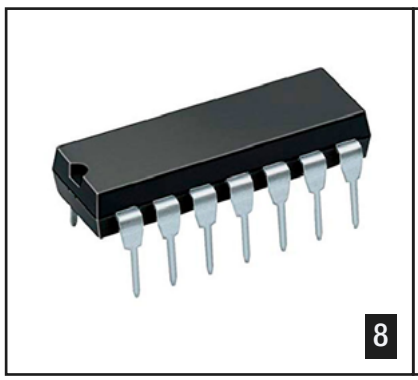
- 1 Connector and Relays
- Coils / Inductor 2
- 3 Fuses
- Transformer 4
- 5 Diodes
- Transistor 6
- 7 Capacitors
- Integrated Circuit (IC) 8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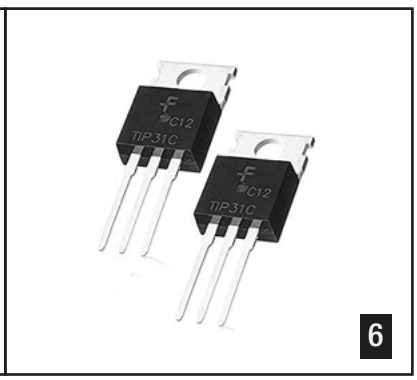
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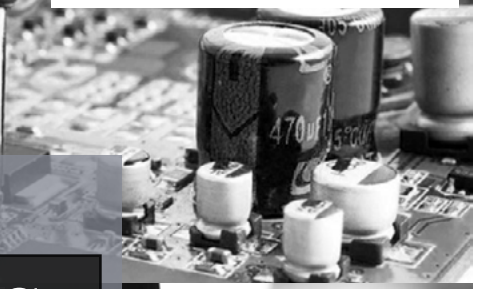
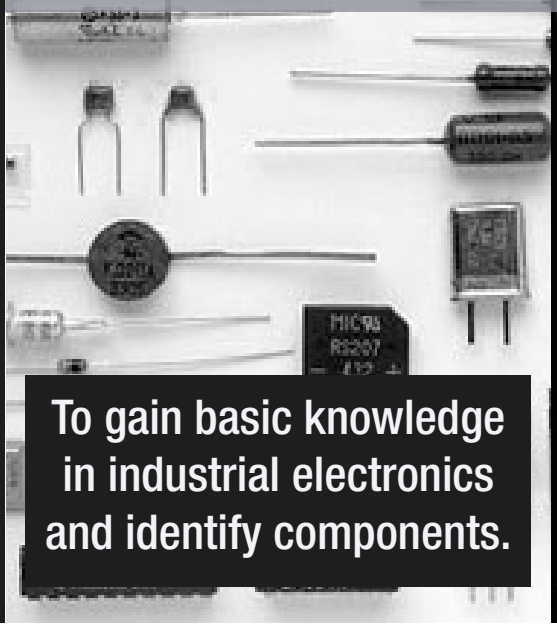
To learn how to work with electronic laboratory equipment.

To learn basic troubleshooting for industiral electronic devices.



OBJECTIVES

To learn how to maintain and refurbish printed circuit boards (PCB).

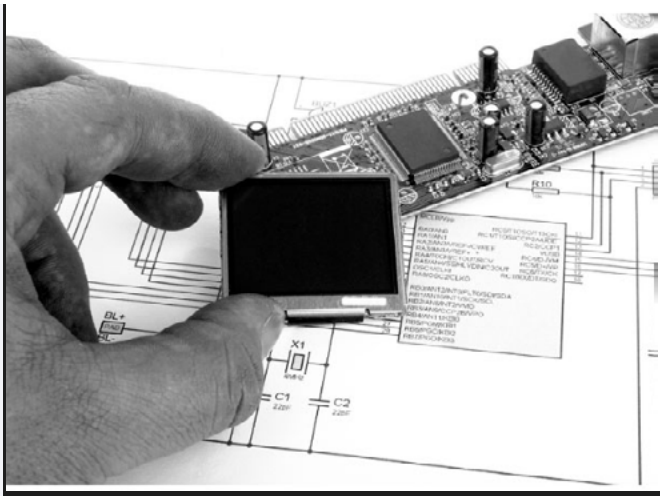


To gain basic knowledge in industrial electronics and identify components.

To alleviate cost of electronics repair and perform basic in-house repairs.

OBJECTIVES

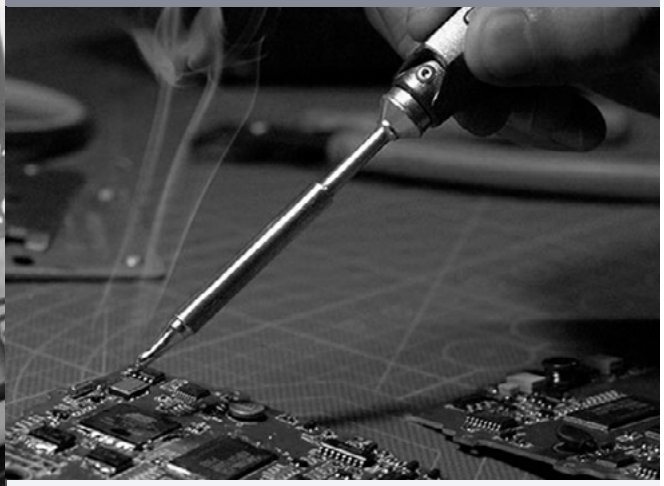
To learn basic testing for industrial electronic components.



To learn the common errors of every electronic device.

To learn how to use electronic measurement devices such as a multimeter.

To learn safety tips in handling electronic components, devices and circuit boards.



To learn the proper way of soldering and desoldering components.

TARGET AUDIENCE

Technicians and Non-Technical personnel who wish to broaden their knowledge in test and repairs of Industrial Electronics. Those involved in Electronics Engineering and Electronics Supply and Trading will find this course very beneficial.

HOW THE COURSE WILL BE CONDUCTED

We believe that you can only learn electronics through practice combined with theory. You should also have a good knowledge of circuitry to be able to troubleshoot. We make sure all of that happens in this course. Everything that is said, is done:

DAY 1

Participants will be exposed to basic principles of electronics and experience it all with building simple circuits. They will then learn how to use a multimeter and do measurements on those circuits. Safety regulations in every electronic workspace is discussed as well as some of the electronic components and their behavior in those circuits. They will write down the results of their experiment on the given experiment paper. Two open-book quizzes are taken everyday *(before lunch and before the class is dismissed)*.

DAY 2

More complicated circuits, components and repair tips are discussed. They get to test the circuits, make new circuits and troubleshoot them on the spot. It is again also followed by doing measurements all the time. Participants will be asked several questions by the trainer to make sure they have understood each subject before moving to a new one. No one is left behind!

DAY 3

Different repair methods are explained in detail. Soldering techniques and saferty for the components and technician are explained. The participants will get to practice soldering and will complete a circuit which is going to be theirs. They will receive their certificate & the quiz results on another a different paper.

TRAINING SCHEDULE

ITINERARY / EVENT

DAY 1 - 3

0915 - 1045 (1 HOUR 30 MINS)
- LESSON

1045 - 1100 (15 MINS)
- BREAKTIME

1100 - 1230 (1 HOUR 30 MINS)
- LESSON
- QUIZ

1230 - 1330 (1 HOUR)
- LUNCH

1330 - 1500 (1 HOUR 30 MINS)
- LESSON

1500 - 1515 (15 MINS)
- BREAKTIME

1515 - 1645 (1 HOUR 30 MINS)
- LESSON
- QUIZ

1645 - 1700 (15 MINS)
- LESSON REVIEW

ITEMS

LESSON : 4 LESSONS A DAY
DURATION : 3 DAYS
QUIZ TIME : 2 TIMES A DAY (TOTAL OF 6 QUIZZES FOR 3 DAYS)
LUNCH TIME : 1230 - 1330 (1 HOUR)

NOTES

1. There are 2 quizzes taken from the participant each day. One is before lunch and the other before the ending of the training day.

2. A day of absence will require the participant to join the next course for that particular day. Same applies to half day of absence.

3. The last 15 minutes of the training session (1645 - 1700) is for reviewing what been taught.

4. There is a 15 minutes break in between each class and the lunch time if from 1230 - 1330.

5. The training course book, quizzes, components and tools are provided by FICTRON.

6. Every circuit that is taught is practiced and built to ensure a full understanding of subject matter.

INTEL

OUR CLIENTS

AMD

LUMILEDS

PSDC

ABOUT FICTRON

Fictron Industrial Supplies has had extensive experience in repairing industrial electronic **Motor Drives, PLC systems, Servo Systems** as well as **Human Machine Interfaces**.

OUR ENGINEERS are trained in Germany and we are the authorized repair center for **KEB Automation KG**. As an industrial solution provider, we believe in an open market whereby the repair information is shared for the greater good of industrial electronics and ease of operation for local factories.

FICTRON REPAIR EXPERTISE

- ON-SITE
- IN-HOUSE
- RUSH REPAIR
- 10+ YEARS EXPERIENCE
- KEB GMBH CERTIFIED
- PARAMETER SETTING
- PLC PROJECTS AND BACK UP
- & MANY MORE.

AWARDS

- **16th** Asia Pacific International Honesty Enterprise - Keris Award
- **15th** Asia Pacific International Entrepreneur Excellence Award
- **12th** Top Global Brand Leadership Excellence Award
- **World** Confederation of Businesses - Worldcob-Biz 2019 Award

ABOUT IRS

IRS Training Sdn Bhd, est. in 1997 has been a pioneer in delivering **Creativity and Competency** based trainings throughout Malaysia and Asia Region. Consistently known for delivering excellent creativity training programs such as **Edward De Bono's Six Thinking Hats & Lateral Thinking**, is also known for **LEGO Serious Play and Game Storming**. Additionally, IRS is also currently moving into innovative and creativity application on team namely **Four Sight Toolset and Mindset certification**. Locally, IRS Training is famous for their **HRDF Train the Trainer, Evaluation on Effectiveness of Training, Master Trainer and Training Needs Analysis programmes**.

IRS believes that in today's era of **VUCA**, there's no other way but to reinvent. We need to engage, embrace, and adopt new ways of learning and working with the latest and emerging technologies. Digital transformation allows us to achieve sustainable advantage we can have over others. As a testament for its effort in consistently providing and delivering quality training programmes, **IRS won SME Awards 2009 for Best Brand in Services Management and Minister of Human Resource Award 2012**.

ABOUT IRS

TRAINING PROGRAMME

- **FOURSIGHT** Certification
- **De Bono** Creativity Programs
- **Lego Serious Play** Training Methodology
- **Game Storming** Training Methodology
- **IRS Public Course** Series – IR4.0
- **HRDF** Train The Trainer
- **HRDF Evaluation On Effectiveness** Of Training (EET)

AWARDS

- **WINNER** of HUMAN RESOURCE MINISTER AWARD 2012
- AWARDED The **Brand Laureate SMEs Chapter Awards 2009**
- AWARDED the **CERTIFICATE OF APPRECIATION** for Human Resources Development 2009/2007
- One of the active and recognised provider in **Edward de Bono's Thinking Systems™** and the first in Malaysia

The Brand Laureate Best Personality Award in 2006 for **Dr. Edward De Bono**

QUALIFICATION

Registered Training Provider with Pembangunan Sumber Manusia Berhad (PSMB) since 1997 - No.0281 ClassA;

i) Approved HRDF TTT, EET, Master Trainer & TNA Consultant for PSMB
ii) Approved Training Partner for Certification Courses
iii) Approved Training Partner for SMETAP & PKS programms.

Registered as an Accredited Centre (Pusat Bertauliah) under JPK / DSD (L02279)

Registered with Ministry of Finance "Pendaftaran Kontraktor" – No.357 - 0002287070

Registered with Perbadanan Produktiviti Malaysia (MPC) – 42L-PLPS

Authorised Representative for FOURSIGHT Certification Tools of Thinking and Innovation

Facilitator for LEGO Serious Play Training Methodology

Authorised Representative of Edward de Bono's Thinking Systems™

Authorised Provider for Australia Certification Courses (i.e. Certificate IV, Diploma and Advanced Diploma Programmes) accredited by ASQA (Australia Skills Quality Authority).

A Centre for RPL (Recognition of Prior Learning)

MR AMIN IZADY SADR

Who is an electronics prodigy from Iran with extensive hands-on design and research experience in the **Electronics** field. He started building his first electronics circuit when he was 7 years old.

He is extremely well-versed with years of experience in **PCB Design with Altium, electrical wiring, programming with PIC Basic Pro & Bascom, service and repair of home appliances, car audios, power supplies, portable amplifiers** and many more skills acquired through strong desire to learn, love for knowledge, courage and strict discipline in experimenting and R&D. He is certified in **PLC Automation S7 3000, AVR Microcontroller and Digital Circuit Design**.

To learn more about him check out his recently-launched blog at **www.elisha.network**

THE INSTRUCTOR