



**CONTINUING
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Course Title	Funding ¹		Hrs	Sessions	Fees (Incl of GST)	Day	Start Date	End Date	Time	College ²
	SFC	NSA								
Engineering										
Air-Conditioner Maintenance	●	●	20	7	\$ 497.55	Mon	3-Apr	22-May	6:45pm-9:45pm	CW
						Wed	5-Apr	24-May	6:45pm-9:45pm	CE
Air-Conditioning – Basic Maintenance for Home Split Unit	●	●	24	8	\$ 518.95	Wed	5-Apr	31-May	6:45pm-9:45pm	CW
Air-Conditioning - R32 Safety Awareness Training	●		6	2	\$ 149.80	Mon	17 Apr	24 Apr	6.45 – 9.45pm	CW
Arc Welding	●	●	15	5	\$ 540.35	Mon	3-Apr	8-May	6:45pm-9:45pm	CW
CAD – Create Parts & Draw Assemblies using SolidWorks	●	●	24	8	\$ 401.25	Wed	5-Apr	31-May	6:45pm-9:45pm	CE
Electrical – Home Maintenance	●	●	20	7	\$ 444.05	Tue	4-Apr	16-May	6:45pm-9:45pm	CE
						Fri	7-Apr	26-May	6:45pm-9:45pm	CE
Electrical – Motor Starters & Maintenance	●	●	18	6	\$ 304.95	Mon	3-Apr	15-May	6:45pm-9:45pm	CE
Electrical – Switchboard Maintenance	●	●	30	10	\$ 444.05	Mon	3-Apr	12-Jun	6:45pm-9:45pm	CE
Electrical Control – Air-Con Maintenance	●	●	18	6	\$ 315.65	Tue	11-Apr	16-May	6:45pm-9:45pm	CW
Electrical Installation – CP5:1998 Code of Practice	●	●	30	10	\$ 369.15	Mon	3-Apr	12-Jun	6:45pm-9:45pm	CE
Electrical Installation – Test & Inspect Residential & Commercial Properties	●	●	15	5	\$ 358.45	Wed	5-Apr	3-May	6:45pm-9:45pm	CE
Electrical Maintenance (Beginner)	●	●	18	6	\$ 347.75	Wed	17-May	21-Jun	6:45pm-9:45pm	CE
Electrical Measurement & Errors			7	1	\$ 246.10	Fri	16-Jun	16-Jun	9am-5pm	CC
Electronics - Universal Counter Application	●		7	1	\$ 224.70	Thu	15-Jun	15-Jun	9am-5pm	CC
Fire Protection – Equipment Maintenance	●	●	20	7	\$ 401.25	Tue	4-Apr	16-May	6:45pm-9:45pm	CW
Home Security – Video Surveillance Made Easy	●	●	12	2	\$ 299.60	Sat	13-May	20-May	9am-4pm	CW
Hydraulics – Fundamental Principles	●	●	27	9	\$ 465.45	Fri	7-Apr	9-Jun	6:45pm-9:45pm	CW
Instrumentation – Machine Condition Monitoring	●	●	21	7	\$ 401.25	Tue & Thu	11-Apr	2-May	6:45pm-9:45pm	CC

Institute of Technical Education

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	SFC	NSA								
IP VIDEO - ADVANCED SURVEILLANCE SYSTEM	●	●	24	3	\$ 625.95	Tue-Thu	27-Jun	29-Jun	9am - 6pm	CW
Microsoldering – Surface Mounted Components/Devices (SMD) for Industry	●	●	21	3	\$ 722.25	Mon-Wed	12-Jun	14-Jun	9am-5pm	CW
Mobile Phone – Essential Servicing Skills	●	●	18	3	\$ 411.95	Sun	14-May	28-May	9am to 5pm	CE
Physical Security – Video Surveillance Technology & Design	●	●	24	3	\$ 551.05	Tue-Thu	20-Jun	22-Jun	9am-6pm	CW
Pipe Fitting	●	●	24	4	\$ 369.15	Sun	9-Apr	30-Apr	9am-4 pm	CC
PLC Programming – Fundamentals	●	●	30	10	\$ 454.75	Fri	7-Apr	16-Jun	6:45pm-9:45pm	CW
				7.5	\$ 454.75	Sat	8-Apr	27-May	1pm-5pm	CE
PLC programming – Introduction to Alternative Languages (FB, ST & SFC)	●		30	10	\$ 508.25	Sat	8-Apr	10-Jun	9am-12 noon	CW
Plumbing Maintenance	●	●	20	7	\$ 379.85	Thu	6-Apr	18-May	6:45pm-9:45pm	CE
Process Control - Transmitters/Transducers Calibration	●		7	1	\$ 267.50	Thu	15-Jun	15-Jun	9am-5pm	CC
Swimming Pool Maintenance & Operation	●	●	30	10	\$ 518.95	Mon	3-Apr	12-Jun	6:45pm-9:45pm	CE
TIG Welding	●	●	21	7	\$ 839.95	Wed	5-Apr	24-May	6:45pm-9:45pm	CC
InfoComm Technology, Computing & Networking										
3D Printing – Model Building	●	●	18	3	\$ 411.95	Sat	8-Apr	22-Apr	9am-4pm	CC
Adobe Premiere - Fundamentals of Video Editing	●	●	18	6	\$ 401.25	Mon-Thu	10-Apr	18-Apr	6:45pm-9:45pm	CW
Audio Visual - Automation & Programming Fundamentals	●		21	3	\$ 428.00	Mon-Wed	12-Jun	14-Jun	9am-5pm	CC
Animation - Developed Marketing & Communication Video using Powtoon	●	●	7	1	\$ 235.40	Mon	12-Jun	12-Jun	9am-5pm	CW
AutoCAD– Preparation for Professional Certification	●	●	9	3	\$ 304.95	Mon & Wed	5-Jun	9-Jun	6pm-9:45pm	CC
AutoCAD 2017(Beginner)	●	●	30	10	\$ 518.95	Mon & Wed	3-Apr	8-May	6:45pm-9:45pm	CC
						Tue & Thu	4-Apr	4-May	6:45pm-9:45pm	CC
AutoCAD 2017 (Intermediate)	●	●	30	10	\$ 551.05	Mon,Wed & Fri	12-May	2-Jun	6:45pm-9:45pm	CC

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	SFC	NSA								
Autodesk 3D Max	●	●	18	2	\$ 401.25	Sat	27-May	3-Jun	8:30am-6:30pm	CW
Building Information Modeling (BIM) – Design using Tekla Structure	●	●	30	10	\$ 540.35	Mon & Wed	10-Apr	17-May	6:45pm-9:45pm	CC
C# Programming – Create Windows Forms Application	●		14	2	\$ 379.85	Mon & Wed	10-Apr	24-Apr	6:45pm-9:45pm	CW
Computer Maintenance – Basic Diagnostics & Repair	●	●	30	10	\$ 465.45	Mon & Thu	3-Apr	8-May	6:45pm-9:45pm	CC
Cyber Security - Personal Best Practices	●	●	9	1	\$ 267.50	Tue	13-Jun	13-Jun	8:30am-6:30pm	CW
Ethical Hacking – Fundamentals	●	●	12	4	\$ 315.65	Tue & Thu	11-Apr	20-Apr	6:45pm-9:45pm	CW
Excel 2010 – Visual Basic Programming	●		32	6	\$ 636.65	Sat	29-Apr	3-Jun	9am-4pm	CW
iMovie for Mac – Create Movies & Trailers (Beginner)	●	●	7	1	\$ 133.75	Sat	8-Apr	8-Apr	9am-5pm	CC
Internet of Things-Connect Devices Using Thingbox	●		12	4	\$ 299.60	Tue & Thu	11-Apr	20-Apr	6:45pm-9:45pm	CW
IP Networking - Configure LAN, WAN, Internet & Intranet For Physical Security Professionals	●	●	12	4	\$ 326.35	Tue & Thu	25-Apr	4-May	6:45pm-9:45pm	CW
IP Networking - WiFi Wireless Networking & Remote Access For Physical Security Professionals	●	●	12	4	\$ 326.35	Tue & Thu	22-May	31-May	6:45pm-9:45pm	CW
IT Literacy - Design an Emailer	●	●	7	1	\$ 171.20	Sat	8-Apr	8-Apr	9am-5pm	CC
IT Literacy - Use Computer (English)	●	●	9	3	\$ 203.30	Sat	6-May	20-May	9:30am-12:30pm	CC
IT Literacy - Use Computer (Mandarin)	●	●	12	4	\$ 171.20	Sat	8-Apr	29-Apr	9:30am-12:30pm	CC
IT Network – Installation for Home & Small Businesses	●	●	30	10	\$ 465.45	Mon & Wed	10-Apr	17-May	6:45pm-9:45pm	CC
						Tue, Thu	11-Apr	11-May	6:45pm-9:45pm	CW
Photography – Picture Storage & Management Using Cloud	●	●	7	1	\$ 235.40	Mon	12-Jun	12-Jun	9am-5pm	CW
Photography & Photo Editing	●	●	15	5	\$ 401.25	Mon & Wed	22-May	5-Jun	6:45pm-9:45pm	CW
Raspberry Pi – Build a Computer	●	●	15	5	\$ 390.55	Tue & Thu	11-Apr	25-Apr	6:45pm-9:45pm	CW

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	SFC	NSA								
Setting Up and Managing a Linux Operating System using Ubuntu (For Beginners)	●	●	15	5	\$ 433.55	Tue & Thu	25-Apr	9-May	6:45pm-9:45pm	CW
Smart Nation Capability Development Program (SNCDP) - Cisco Certified Network Associate (CCNA)	●		40	14	\$ 973.70	Mon, Wed	10-Apr	31-May	6:45pm-9:45pm	CW
Smart Phone – Develop Android Apps (Beginner)	●	●	18	6	\$ 326.35	Mon	10-Apr	22-May	6:45pm-9:45pm	CW
Web Development – Responsive Web Design	●	●	9	1	\$ 171.20	Sat	20-May	20-May	8:30am-6:30pm	CC
Web Server – Configure Web Server, Registration, Feedback & Admin Pages			15	5	\$ 460.10	Tue & Thu	4-May	18-May	6:45pm-9:45pm	CW
Web Server – Set up Web Servers, Create Web Pages & Maintain Websites	●	●	15	5	\$ 369.15	Mon & Wed	10-Apr	24-Apr	6:45pm-9:45pm	CW
Windows Server 2012 - Set up and hardening	●		7	3	\$ 235.40	Tue & Thu	11-May	18-May	6:45pm-9:45pm	CW

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Application Procedure

Application can be made at the [Customer & Visitor Centre](#), by post or via online at <http://www.ite.edu.sg/wps/portal/intake> (click on 'Application for Short Courses'). Payment is required for confirmation of place. ITE reserves the right to cancel a class when there are insufficient applicants. Full refunds will be made to affected applicants.

Certification

Participants will be awarded a Certificate of Achievement upon attaining an attendance of at least 75%.

¹Funding

Selected short courses are eligible for the following funding incentives and subsidies.

SKILLS DEVELOPMENT FUND (SDF) TRAINING ASSISTANCE (SDF) - Sponsoring company can apply for the SkillsDevelopment Fund (SDF) in the SkillsConnect System at www.skillsconnect.gov.sg. The list of courses for SDF is available on the SkillsConnect system. For assistance on the use of SkillsConnect, you may contact SkillsFuture Singapore at 67855785.

SFC - SkillsFuture Credits – Self-sponsored Singaporeans aged 25 years & above can use their SkillsFuture Credit to pay fees. For more information, please refer to <http://www.skillsfuture.sg/credit>.

NSA - Singaporean aged 50 & above are eligible for National Silver Academy (NSA) subsidy of up to 50% course fees. Visit www.nsa.org.sg for more information.

²College

CC : ITE College Central (Ang Mo Kio), 2 Ang Mo Kio Drive, Singapore 567720

CE : ITE College East (Simei), 10 Simei Avenue, Singapore 486047

CW : ITE College West (Choa Chu Kang), 1 Choa Chu Kang Grove, Singapore 688236

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AIR-CONDITIONER MAINTENANCE

Objective

Participants will be provided with the practical knowledge in maintaining and servicing window air-conditioning units. At the end of the course, participants will have a good understanding of the functions of the airconditioning components and inspect them for serviceability.

Duration (hour): 20 [Theory - 6 , Practical - 14]

Who Should Attend

Technical personnel working in the air-conditioning industry.

Content

- Basic principle of operation of the various components in an airconditioning System
- Replacing copper tubing assembly involving the process of cutting, bending, flaring, swaging and brazing
- Performing leak test, vacuum and charge a refrigeration system of airconditioning unit
- Performing pump down of the refrigeration System of an airconditioning unit

Profile of Trainer:

College East:

Harry Chan has been with ITE as lecturer for a few years. Prior to joining teaching service, he has acquired vast experiences in this field.

College West:

Lim Tau Kum has 15 years of teaching experience in air-conditioning and refrigeration field.

* The trainer is subject to change without prior notice.

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AIR-CONDITIONING – BASIC MAINTENANCE FOR HOME SPLIT UNIT

Objective

At the end of the module, participants would be able to perform routine maintenance and parts replacement, troubleshooting and repairs of residential air-conditioning (split type).

Duration (hour): 24 [Theory - 12 , Practical - 12]

Who Should Attend

Air-conditioning mechanics, salesmen or maintenance personnel and those who are interested in maintaining their own residential airconditioning units (split type).

Entry Requirement

Content

Theory

- Suggest suitable safety precautions to be observed when working with airconditioning and refrigeration equipment and using tools
- Describe the methods of joining copper tubes
- Explain the operations of a simple refrigeration system
- Explain the thermal process of a simple refrigeration system
- Interpret the temperature and pressures of the refrigerant from pressure gauges and refrigerant tables
- Explain the construction and operations of the refrigerants service valves and pressure gauges
- Describe the evacuating and charging processes and the safety precautions to be observed
- Explain the functions and operations of refrigeration control devices
- Explain the operations of multi-speed fan motors used in residential airconditioner (split type).
- Explain the operations and types of thermostat used in residential airconditioner (split type)
- Explain general maintenance to be carried out for a residential air-conditioner (split type)
- Explain the factors to be considered when installing residential air-conditioning units (split type)

Practical

- Interpret the wiring circuits of a split type air-conditioning unit
- Install the split type air-conditioning unit
- Test and replace faulty electrical and mechanical refrigeration components in a split type air-conditioning unit
- Maintain coil/filter through washing/chemical agents

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ARC WELDING

Objective

This course aims to equip participants with skills and knowledge to perform basic arc welding joints. Participants will be updated on the various types of welding joints.

Duration (hour): 15 [Theory - 3, Practical - 12]

Who Should Attend

Welders, technicians and supervisors in engineering industries who wish to acquire skills and knowledge in welding.

Content

- Safety in Arc welding
- Principle in Arc welding
- Strike an arc and maintain it
- Practice straight beading in down-hand position
- Lap joints in down-hand position
- T-joint in down-hand position
- Corner Joint in down-hand position
- Butt Joint in down-hand position

Profile of Trainer:

Roslee Baba has 30 years of teaching experience in welding and facility technology field.

* The trainer is subject to change without prior notice.

[⇒ Return to Course Listing](#)



CAD – CREATE PARTS & DRAW ASSEMBLIES USING SOLIDWORKS

Objective

This course provide participants with the knowledge of using Solidworks CAD software to create parts drawing for mechanical components.

Duration (hour): 24 [Practical - 24]

Who Should Attend

Student, worker, administrator, sales or technical staff who may need to draw and edit company engineering drawing or anyone who wish to pick up the skills of Solidworks.

Entry Requirement

Have basic knowledge in Solidworks.

Content

- Explain the SolidWorks Basics and the User Interface
- Create sketching and basic part Modeling
- Create several types of drawing views
- Open a drawing template and editing a sheet format
- Inserting standard views of a part model
- Assembly Modeling

Profile of Trainer:

Tan Keng Huat is a senior technologist at ITE College East with 20 years of experience in following fields: Process/Equipment design, Automation design, Machine design, Project consultant & Lecturing Inventor, Solidworks, Autocad, Microstation.

Lim Wenbin is a Certified Solidworks Associate and currently working as Lecturer - Technology Development Engineer in ITE College East. He graduated with a PhD in Mechanical Engineering and has more than 5 years experience in mechatronics, robotics and control.

Sam Chew Liang is a Certified Solidworks Associate (CSWA C-EPBRUAK2K8). He currently working as Lecturer - Technology Development Engineer in ITE College East with 12 years experience in the electronics, industry application, and lecturing AutoCAD.

* The trainer is subject to change without prior notice.

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ELECTRICAL – HOME MAINTENANCE

Objective

To provide participants with practical knowledge in using basic hand tools and measuring instruments in domestic electrical installation and repair of home electrical appliances.

Duration (hour): 20 [Practical - 20]

Who Should Attend

Those with little or no electrical knowledge e.g Electrical Assistant, Production Leader, Maintenance personnel, and General works personnel.

Content

- Electrical safety.
- Selection and application of test pen, multimeter and polarity test plug .
- Electrical supply system in single phase and cable colour code.
- Consumer unit (electrical distribution board) connection.
- lightings control by 1 way on/off switch, and 2 way control switches and intermediate switches.
- 230V 13 amps switch socket outlet and plug top connection.
- Type of fluorescent light fittings.
- Fluorescent light fitting 18w circuitry connection, operation and faults repair.
- Type of home electrical water heater system and operation.

Profile of Trainer:

Foong Meng Kei is an EMA Licenced Electrical Technician and possesses Diploma in Electrical engineering. He has 37 Years of strong working experiences in providing supply, installation, troubleshooting and commissioning works for various electrical project works and is familiar with the many electrical violation and non-compliance.

* The trainer is subject to change without prior notice.

⇒ [Return to Course Listing](#)



ELECTRICAL – MOTOR STARTERS & MAINTENANCE

Objective

To provide participants with the knowledge and skills on operating principles of motor starters, techniques for troubleshooting and rectifying faults in motor control circuits and operation of three-phase induction motors.

Duration (hour): 18 [Practical - 18]

Who Should Attend

For workers who are working with motor installations or motor maintenance and want to be familiar with the motor starter control circuits operation and trouble-shooting.

Content

- Control elements used for motor starting
- Connect up and test a direct-on-line motor starting circuit
- Connect up a control circuit for the sequence control of multiple motors
- Connect up and test a forward-reverse motor starting circuit
- Connect up and test a for star/delta motor starting circuit
- Connect up and test an auto-transformer motor starting circuit
- Techniques for troubleshooting and rectifying faults in motor control circuits
- Checking and Testing a 3-phase Induction Motor

Profile of Trainer:

Chua Lee Meng taught Nitec in Electrical Technology and equivalent modules for 25 years in ITE. He has an EMA LEW Electrical Technician's Licence since 1978.

He worked in GUTHRIE Switchboard Factory and TMC Consultants Pte Ltd -switchboard division in motor starters and switchboards manufacturing field for 10 years before joining ITE.

* The trainer is subject to change without prior notice.

[⇒ Return to Course Listing](#)



ELECTRICAL – SWITCHBOARD MAINTENANCE

Objective

To provide participants with knowledge of the functions and operations of circuit breakers and switchboards as well as maintenance of switchboards and their associated instruments and relays.

Duration (hour): 30 [Practical - 30]

Who Should Attend

Graduates of Nitec in Electrical Technology or technical personnel in electrical field who wish to acquire the skills and knowledge on switchboard maintenance

Content

- Outline the power distribution system in Singapore
- Explain basic principle of operation, construction and connections of a distribution transformer
- Describe various types of switchboards used in industry
- Explain the principle of operation of LV circuit breakers
- State and connect types of current transformers for metering and protection
- State and connect types of measuring instruments used on switchboard
- Describe and operate types of Over current devices used in switchboards
- Identify and operate various protective relays
- Outline essential requirements on metering and consumer's switch room
- Conduct essential tests on low voltage (LV) switchboards

Profile of Trainer:

Mr Lin Shiaw Ying holds a Diploma in Electrical Engineering from the Singapore Polytechnic. He is an EMA Licensed Electrical Technician with more than 33 years of experience. Mr Lin has been a Trainer with ITE for more than 15 years. He is currently running his own electrical project consultancy practice

* The trainer is subject to change without prior notice.

[⇒ Return to Course Listing](#)



ELECTRICAL CONTROL – AIR-CON MAINTENANCE

Objective

To provide participants with theoretical and practical knowledge in the installation and maintenance of air-conditioning electrical systems.

Duration (hour): 18 [Theory - 12, Practical - 6]

Who Should Attend

Technical personnel working in the air-conditioning industries e.g. air-con technicians.

Entry Requirement

Basic knowledge in air-conditioning systems, preferably with a Nitec in Building Services Technology

Content

- Fundamentals of electro-technology for DC circuits
- Fundamentals of electro-technology for AC circuits
- Electrical Safety (CP5)
- Wiring Systems
- Electric Motors
- Electrical Control Systems
- Testing and Commissioning

Profile of Trainer:

Mohd Khair Bin Kasmin has been a lecturer in ITE for the past 29 years teaching the Nitec and Higher Nitec Electrical Engineering courses. He is the module champion for Electrical Machines and Drives as he takes charge of the curriculum, assessment and the practical work documents for this module as well as oversee the training laboratory for this module.

* The trainer is subject to change without prior notice.

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ELECTRICAL INSTALLATION – CP5:1998 CODE OF PRACTICE

Objective

To enable participants to apply the guidelines of CP5: 1998 for wiring of electrical installations.

Duration (hour): 30 [Theory - 30]

Who Should Attend

Electricians / Technicians who need to upgrade their knowledge on the new electrical regulations.

Content

- Recognise the need to comply with CP5:1998
- Know the background and Layout Plan of CP5:1998
- Appreciate the importance of Definitions as defined in CP5:1998
- Interpret CP5 requirements on Assessment of Installation
- Relate the Classification of External Influences
- Relate the Index of Protection
- Interpret CP5 requirements on Protection Against Electric Shock
- Interpret CP5 requirements on Equipotential Bonding
- Interpret CP5 requirements on Automatic Disconnection of Supply
- Calculate earth fault loop impedance and earth fault current
- Select the minimum size of protective conductor
- Interpret CP5 requirements on Protection Against Over current
- State the function of different types of protective devices
- Interpret CP5 requirements on Isolation and Switching
- Interpret CP5 requirements on Selection and Erection of Equipment
- Calculate cable sizes for single-phase installation
- Determine conduit and trunking sizes
- Interpret CP5 requirements on Special Installations or Locations
- Interpret CP5 requirements on Inspection and Testing

Profile of Trainer:

Foong Meng Kei is an EMA Licenced Electrical Technician and possesses Diploma in Electrical engineering. He has 37 Years of strong working experiences in providing supply, installation, troubleshooting and commissioning works for various electrical project works and is familiar with the many electrical violation and non-compliance.

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[⇒ Return to Course Listing](#)



ELECTRICAL INSTALLATION – TEST & INSPECT RESIDENTIAL & COMMERCIAL PROPERTIES

Objective

At the end of this course, participants will be able to carry out basic electrical testing and inspection as expected of fixed installation in residential and commercial property in compliance with relevant code of practice.

Duration (hour): 15 [Practical - 15]

Who Should Attend

Technicians and electricians in property management, M&E services and estate management.

Content

- Explain purposes of common inspection and test methods require to check low voltage installation in compliance with safety requirement
- Carry out test procedures for
 - Continuity tests
 - Insulation tests
 - Polarity Test
 - Fault Loop Impedance Test
 - RCD test

Profile of Trainer:

Mr Cheng Ah Sa is an ex-ITE Lecturer and he had taught Electrical Engineering Course in both NITEC and Higher NITEC modules for 39 years. He possesses a certificate in Group Training Course for Vocational Instructor (Electrical) from Institute of Vocational Training in Japan and a Certificate of Pedagogy in special In-service Course For Craft Teachers-In-Training from Singapore Teacher Training College. Mr Cheng is currently a Freelance Licensed Electrical Worker (LEW) and provides consultant services in electrical installation projects.

* The trainer is subject to change without prior notice.

[⇒ Return to Course Listing](#)



ELECTRICAL MAINTENANCE (BEGINNER)

Objective

Participants will be able to identify electrical risks and perform safe electrical practices and good housekeeping of electrical tools and equipments. They will also be able to carry out visual checks and basic maintenance in compliance with relevant codes of practice.

Duration (hour): 18 [Theory - 9 , Practical - 9]

Who Should Attend

A beginner course for non-electrical personnel who wish to take the first step in a career in electrical technology.

Content

- Explain the basic electrical fundamentals
- Explain safe working procedures for electrical installation work and defined workplace safety and health policies
- Describe the various types of common electrical accessories
- Describe the requirements for power final circuits
- Describe the types of protective devices use for overcurrent and earth leakage protection
- Explain the use of safety mark under the Singapore Consumer Protection (Safety Requirements) Regulations
- Describe the change in cable color code for electrical installations as in amendment No.1 to CP5:1998
- Describe the application of various electrical testing instruments and its observance on safety precaution during use
- Describe the basic techniques of circuit connection and principles of identifying, tracing and troubleshooting faults
- Terminate and check a portable socket outlet extension to a 13A plug via a 3-core flexible cord and check loading of equipment and appliances

Profile of Trainer:

Mr Cheng Ah Sa is an ex-ITE Lecturer and he had taught Electrical Engineering Course in both NITEC and Higher NITEC modules for 39 years. He possesses a certificate in Group Training Course for Vocational Instructor (Electrical) from Institute of Vocational Training in Japan and a Certificate of Pedagogy in special In-service Course For Craft Teachers-In-Training from Singapore Teacher Training College. Mr Cheng is currently a Freelance Licensed Electrical Worker (LEW) and provides consultant services in electrical installation projects.

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ELECTRICAL MEASUREMENT & ERRORS

Objective

Participants will learn the concept of errors, measurement errors and selection of cables and connectors. Demonstrate the concepts in precision measurement theory.

Duration (hour): 7 [Theory – 4.5 , Practical – 2.5]

Who Should Attend

This class is intended for those in the precision electrical measurement and calibration.

Entry Requirement

Participants should have basic electronics background and understanding of calibration and measurement theory.

Content

- Participants will learn the concept of errors, measurement errors and selection of cables and connectors.
- Demonstrate the concepts in precision measurement theory.
- Explain the importance of selecting proper cables and connectors in measurement setups.
- State the concept of uncertainties.
- Explain the types of measurement errors.
- Perform electrical measurements and explain the sources of errors.

Profile of Trainer:

Woon Kin Seong has more than 20 years of teaching experience in ITE and conducts courses in Metrology & Electrical Measurements certified by Fluke. His area of specialization is in instrumentation especially process measurements and control systems.

* The trainer is subject to change without prior notice.

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ELECTRONICS - UNIVERSAL COUNTER APPLICATION

Objective

Participants will learn the applications of the Universal Counter and the reasons for their use.

Duration (hour): 7 [Theory - 3 , Practical - 4]

Who Should Attend

This class is intended for those in the Test & Measurement industry whose work involves using Test Instruments.

Entry Requirement

Basic electronics background and an understanding of Frequency Counter.

Content

Candidates should be able to :

- Explain the basic operation of a Universal Counter.
- Explain the measurement mode of a Universal Counter
- State the application of a Universal Counter.
- Perform the time interval measurement of a Universal Counter.

Profile of Trainer:

Jacqueline Ng

- 36 years teaching experience in ITE.
- Conducts courses in Test Instruments module for full time and part time NITEC Course.
- Area of specialization is in instrumentation especially test instruments.

* The trainer is subject to change without prior notice.

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FIRE PROTECTION – EQUIPMENT MAINTENANCE

Objective

To provide participants with hands-on practice in operating, maintaining, inspecting and testing common building fire-fighting equipment so that they are maintained at operationally ready state at all times.

Duration (hour): 20 [Theory - 6 , Practical - 14]

Who Should Attend

Building maintenance technicians and personnel involved in building maintenance work.

Content

- Explain, operate, maintain and inspect the 'Conventional' fire alarm panel and its circuit.
- Explain, maintain and wire-up the full-time Supervised Detector and Sounder circuits.
- Explain and maintain the common sprinklers and standard sprinkler systems.
- Conduct Water Flow alarm Switch Test and Water Proving Test.
- Explain, maintain and operate First Aid fire-fighting equipment: the hose-reel system and portable fire extinguishers.
- Explain, maintain and inspect the Dry and Wet Rising Main systems.
- Explain the voice communication systems and emergency evacuation.

Profile of Trainer:

Abdul Roaf Salleh has 15 years of teaching experience in Electrical Engineering field. He is a qualified Fire Safety Manager and specialises in fire safety and protection system.

* The trainer is subject to change without prior notice.

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HYDRAULICS – FUNDAMENTAL PRINCIPLES

Objective

To provide participants with basic knowledge and skills in Hydraulics- a topic in applied science and engineering dealing with the mechanical properties of liquids. This course focuses on the engineering uses and applications of fluid properties.

Duration (hour): 27 [Theory - 20 , Practical - 7]

Who Should Attend

Technical personnel dealing with hydraulic instruments/equipments with little or no basic knowledge.

Content

- Explain the principles of hydraulics
- Describe the construction of a hydraulic fluid reservoir
- Outline the functions and properties of hydraulic fluid. Describe the use and applications of components to maintain it in a clean and cool condition.
- Describe the operations and applications of hydraulic pumps, accumulators and intensifiers
- Describe the operations and applications of hydraulic control valves and actuators
- Analyse basic hydraulic circuitry with ISO symbols
- Connect, troubleshoot and test basic hydraulic circuits on hydraulic trainers
 - Pump characteristics
 - Directional control of single and double acting cylinder
 - Positioning and counter-balancing
 - Speed control and regenerative circuits
 - Hydraulic flow resistance

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INSTRUMENTATION – MACHINE CONDITION MONITORING

Objective

This course aims to equip participants with basic machine condition monitoring capability in using vibration measuring instrument, infra-red thermometer, thermal imager and acoustic probe.

Duration (hour): 21 [Theory - 6 , Practical - 15]

Who Should Attend

Maintenance supervisors, technicians, machine operators and maintenance personnel.

Content

- Explain maintenance strategies, plant reliability and safety
- Explain vibration fundamentals and vibration based condition monitoring, measuring instrument & machine vibration severity chart
- Describe thermograph, heat transfer and thermography in maintenance
- Describe ultrasound & safety during ultrasound scanning on machine and plant equipment
- Perform vibration measuring instrument setting & reading the recorded data for machine condition
- Perform temperature and thermal image capturing using infrared thermometer & thermal camera with setting for good thermal image.
- Perform leakage or fault sound scanning using ultrasonic probe on machine and plant equipment

Profile of Trainer:

Ishak Abdul Rahman has over 25 years of teaching experience with ITE. He is a certified Level 1 vibration analyst and teaches Plant Equipment Maintenance.

* The trainer is subject to change without prior notice.

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MICROSOLDERING – SURFACE MOUNTED COMPONENTS/DEVICES (SMD) FOR INDUSTRY

Objective

This 3-day course aims to provide key information and equip participants with soldering skills for lead-free surface-mounted components/devices (SMD) which are compatible to industry standards.

Duration (hour): 21 [Theory - 7 , Practical - 14]

Who Should Attend

Technicians, Engineers and Rework Operators.

Content

- Theory on soldering
- Identify the various types of surface-mount components
- Explain the mounting standards for surface-mount components
- Explain the common defects associated with solder joint for surface-mount components
- Apply the soldering techniques on surface-mount components
- Apply the soldering techniques on surface-mount components
- Perform desoldering of surface-mount components.
- Further practice for surface-mount components soldering

Profile of Trainer:

Tham Wei Leng graduated from University of Surrey (UK) with a First Class Honours in BEng Degree in Electrical and Electronics Engineering. She had worked in the manufacturing industry for 10 years as a Technician and Product Engineer dealing with failure analysis.

At ITE, she has obtained Level 3 Soldering Qualification System and Level 4 Inspection Course, certified by the MOU partner, Hakko Corporation Japan.

* The trainer is subject to change without prior notice.

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PHYSICAL SECURITY – VIDEO SURVEILLANCE TECHNOLOGY & DESIGN

Objective

This course provides participants with a good understanding of CCTV technologies, concepts, operations and approaches in video surveillance system.

Duration (hour): 24 [Theory - 12 , Practical - 12]

Content

- Overview of video surveillance
- Camera, Lens and Monitor
- Video processing devices and Recorder
- Video transmission and Lighting
- Migration from analog to IP system
- System design and deployment considerations

[⇒ Return to Course Listing](#)



PIPE FITTING

Objective

To equip workers with basic pipe fitting skills and knowledge.

Duration (hour): 24 [Theory - 12 , Practical - 12]

Who Should Attend

Technicians and contract workers working in industries involving pipe fitting works

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Content

- Industrial and workshop safety
- Different type of pipes, tubes and fitting e.g. steel, copper and UPVC.
- Cutting pipes and tubes
- Bending pipes and tubes
- Joining pipes and tubes
- Troubleshooting pipe and tubing failures
- Practical – Installation of pipe system
- Various pipe standards (JIS,DIN,ANSI)
- Pipe manufacturing methods
- Pipe materials other than steel, copper and plastic (PVC)
- Heavy industrial pipe fabrication and applications such as pipe welding, pipe machining, etc.

Note:

Participants will be required to wear safety shoes during lessons for safety reasons

Profile of Trainer:

Lim Kok Hwee has 30 years of experience in teaching Mechanical Servicing that include Pipe Fitting and Mechanical maintenance. Kok Hwee holds Diploma In Manufacturing Engineering and Specialist Diploma in Environmental & Water Technology.

* The trainer is subject to change without prior notice.

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PLC PROGRAMMING – FUNDAMENTALS

Objective

To provide participants with knowledge of the parts and functions of a programmable logic controller (PLC), its principles of operation and writing programmes for simple operations

Duration (hour): 30 [Theory - 9 , Practical - 21]

Who Should Attend

Graduates of Nitec in Electrical Technology or technical personnel in the electrical field who wish to acquire the skills and knowledge on PLC.

Content

- Explain the terms, concepts and system configurations of a PLC
- Explain the steps and concepts involved in programming a PLC
- Apply programming instructions of a PLC to perform the function of electro-mechanical switching
- Apply programming instructions of a PLC to operate solenoids in pneumatic circuits
- Explain the functions and programming instructions on timers, counters and data shifting of a PLC
- Write programs for simple operations of the PLC in accordance with given instructions for the application

Note: Hardware used in the course is OMRON CQMI while the software editor is CX PRORAMMER VER 5.

Profile of Trainer:

Foo Ming Toon retired after 30 plus years of service with ITE across Electrical Engineering and Mechatronics Engineering departments. He continues to teach CET classes after retired major in automation module and PLC programming for ABB, Omron and Festo PLC.

* The trainer is subject to change without prior notice.

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PLC PROGRAMMING – INTRODUCTION TO ALTERNATIVE LANGUAGES (FB, ST & SFC)

Objective

To expose participants to other languages like, Function Block (FB), Structure Text (ST) and Sequential Function Chart (SFC). The course is conducted with the OMRON PLC CJ2M and CX-Programmer software.

Duration (hour): 30 [Theory - 9 , Practical - 21]

Who Should Attend

Technical personnel dealing with automated process / equipment and PLC programming.

Entry Requirement

Familiar with PLC programming using ladder language.

Content

- Define 5 different types of programming language
- Apply Function Block (FB) from library together with the ladder language.
- Create customised Function Block (FB) for specific application.
- Apply Structure Text (ST) as part of the ladder program.
- Define the process of creating a Sequential Function Chart (SFC) program.
- Develop a SFC program for process control.
- Develop a PLC program utilising all four languages.

Profile of Trainer:

Mr Foo Min Toon is a retired staff after 30 plus years of service with ITE across Electrical Engineering and Mechatronics Engineering departments. He continue teaches CET classes after retired major in automation module and PLC programming for ABB, Omron and Festo PLC.

* The trainer is subject to change without prior notice.

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PLUMBING MAINTENANCE

Objective

To provide participants with practical knowledge in repairing and replacing domestic water supply pipes and sanitary appliances. At the end of the course, participants will be able to carry out simple plumbing repairs, locating and clearing chokes in water-disposed system.

Duration (hour): 20 [Theory - 6 , Practical - 14]

Who Should Attend

Contractors who have little or no knowledge in plumbing maintenance and homeowners who wish to carry out their own repairs.

Content

- Work with water supply pipes and fittings
- Construction and operation of flushing cisterns and flush valves
- Types and functions of sanitary traps
- Service the flushing cistern and flush valves
- Operate manual and power driven drain-clearing tools

Profile of Trainer:

Lee Teck Hor worked in construction line which providing Plumbing, Sewerage, Water, Gas and Fire Protection services for 10 years. He was a PUB registered Licensed Water Service Plumber since 2001.

* The trainer is subject to change without prior notice.

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PROCESS CONTROL - TRANSMITTERS/TRANSDUCERS CALIBRATION

Objective

The course introduces the concepts of Process Control Transmitters Calibration. By the end of the course, participants will become more productive in performing the Transmitter Calibration.

Duration (hour): 7 [Theory - 4 , Practical - 3]

Who Should Attend

For those whose work involves process control and instrumentation, and chemical process industries.

Entry Requirement

Participants should have basic electronics background with an understanding of Pressure to Current Transmitter and Current to Pressure Transmitter.

Content

- State the importance of reading the specifications of Transmitter.
- State the calibration procedure
- Explain what is Hazardous Area Classification and Flameproof Instruments
- Perform calibration of a Pressure to Current Transmitter and a Current to Pressure Transmitter.

Profile of Trainer:

Neo Lian Chuan has 35 years teaching experience in ITE and is currently conducting courses in Process Measurements & Control Systems for full time and part time NITEC Course.

His area of specialization is in instrumentation especially process measurements and control systems.

* The trainer is subject to change without prior notice.

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RASPBERRY PI – BUILD A COMPUTER

Objective

This course allows participants to learn how to build a simple yet usable PC and enables people of all ages to explore computing using Raspberry Pi- a low cost, credit-card sized computer.

Duration (hour): 15 [Theory - 6 , Practical - 9]

Who Should Attend

Engineers, network technician, system support officers, PC specialists & students

Entry Requirement

Familiarity with basic computer usage

Content

- Set up a single board computer system
- Explain the basic function of an operating system
- Install an operating system into a Raspberry Pi
- Carry out basic configuration of the Raspberry Pi
- Troubleshoot the Raspberry Pi

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SWIMMING POOL MAINTENANCE & OPERATION

Objective

This is a joint certification course between ITE and Singapore Environment Institute (SEI) to teach participants about Swimming Pool's legislation and code of practices stated in the Environmental Public Health Act (EPHA). The course will include hands-on maintenance, repair of pool equipment and showing the proper ways of disinfection, dosing and water balancing in pool water treatment.

Duration (hour): 30 [Theory - 14 , Practical - 16]

Who Should Attend

Estate technicians and Facility technicians

Content

- Legislation and Code of Practice on Swimming Pool
- Disinfection and its role in safeguarding public health
- Maintenance on the Mechanical Components of Filtration Systems & Recirculation
- Maintenance of Chemical Dosing System
- Maintenance on the Electrical Components
- Worker's Safety : Safe Handling of Chemicals
- Emergency & Evacuation Plan
- Water Conservation
- Pool Management

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TIG WELDING

Objective

This course aims to teach participants how to join sheetmetal and rebuild metal using TIG welding process. They are also trained to identify common welding defects and how to avoid them.

Duration (hour): 21 [Theory - 3 , Practical - 8]

Who Should Attend

Welders who need to perform TIG welding. This course will be suitable for those from the aerospace industry.

Content

Practice work safety and good housekeeping

- Explain the safety precautions and procedures to be observed when performing welding in a hangar and aircraft maintenance workshop
- State the safety precautions to be observed when performing TIG welding
- Explain the hazards associated with TIG welding

Perform TIG welding on metal plates

- Describe the TIG welding process
- Explain the types of equipment used in TIG welding
- Describe the types of welding electrodes and shielding gas used in TIG welding
- Outline the limitation of TIG welding
- Identify welding defects and methods to avoid them
- Explain the difficulties of welding in flat, horizontal and vertical position and the methods to overcome them
- Rebuild metal on plate

Perform fillet weld in accordance with specifications

- Select the appropriate equipment and accessories used in TIG welding and carry out pre-welding checks and procedures

Note:

Participants will be required to wear long trousers and covered shoes during training for safety reasons

Profile of Trainer:

Lai Wai Leong holds a Bachelor (Hons) Degree in Mechatronics. He is a Lecturer in Aerospace Technology in ITE.

* The trainer is subject to change without prior notice.

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3D PRINTING – MODEL BUILDING

Objective

Participants will learn how to create 3D models using solid modeling freeware and produce the physical models with 3D printers.

Duration (hour): 18 [Theory - 4 , Practical - 14]

Entry Requirement

Basic knowledge on using a PC is essential.

Content

Introduction to 3D Printing

- Fundamentals of 3D Printing process
- The different types of 3D Printing technologies
- Advantages and applications of 3D Printing

Introduction to 3D Printer

- Capabilities and specification of the printers
- Operating the printers to create physical models
- Carry out cartridges change and settings of the printer
- Available resources at websites

Create simple design of a product using solid modelling Freeware

- Software basics and the User Interface
- Introduction to sketching
- Basic part modelling

Create physical models with 3D Printer

- Using the printer interface program
- Techniques on determine the orientation of models
- Carry out the printing process
- Post processing of the printed models

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ADOBE PREMIERE - FUNDAMENTALS OF VIDEO EDITING

Objective

The objective is to teach the students perform essential editing techniques with software i.e Adobe Premiere Pro. The class is designed for anyone looking to edit professional quality video using Adobe Premiere Pro, and to explore the software functionality.

Duration (hour): 18 [Theory - 5 , Practical - 13]

Who Should Attend

Video Editors, Videographers

Content

- 1 Define the essential needs for Video Editing
- 2 Perform Basic Video Editing
- 3 Perform Audio Editing
- 4 Create Titles
- 5 Explore Compositing Techniques
- 6 Perform Final Touches and Export Video

Profile of Trainer:

Ramanzo Ninsawi is a lecturer with ITE College West, Digital Audio and Video Production Department. He has worked on several projects covering the gamut of video production, motion graphics and visual effects. The trainer is also Adobe Certified Associate in Adobe Premiere.

* The trainer is subject to change without prior notice.

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AUDIO VISUAL - AUTOMATION & PROGRAMMING FUNDAMENTALS

Objective

Learn AV automation technology and the architecture behind, through Crestron product & technology as the focal point.

Duration (hour): 21 [Theory - 5 , Practical - 16]

Who Should Attend

AV Installer, AV service technician, assistant engineer and engineer, project specialist, AV designer.

Entry Requirement

As background knowledge is required, applicants are recommended to have at least 2 years of technical experience in the AV industry.

Content

- Define the concept of a Control system
 - User Interface
 - Processor
 - Network
- Describe how to Use Toolbox for basic configuration and monitoring tools
- Design a Graphic User Interface from VTPro-e based on the following concepts of:
 - Design/Layout
 - Creation of new project & object
 - basic SmartGraphics tools
 - Completing VTPro-e project
 - Compile and Upload Touch Panel files via Xpanel
- Write a source program using SIMPL Windows and Interface with Xpanel based on the following concepts:
 - Configuring the Processor and port
 - Configure Cresnet & Ethernet devices
 - Programming from Xpanel Device
 - Page Flip and basic Automation
 - Sending serial commands and giving button feedback
 - Compile and Upload SIMPL Window Compile file and test with Xpanel

Profile of Trainer:

Yeo Ren Kang has 7 years of experience in AV industry. Product knowledge ranged from Audio (Biamp, Harman), Video (Extron, Kramer, SAMSUNG, NEC) to Automation (AMX, Extron, Crestron). Programming experience includes Sports Hub, Citibank, SUTD, Jacobs Engineering, Bloomberg, MBS Casino.

* The trainer is subject to change without prior notice.

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AUTOCAD 2016 – PREPARATION FOR PROFESSIONAL CERTIFICATION

Objective

Upon completion of the training, participants shall be equipped with skills and knowledge to undertake the AutoCAD Certification Professional examination. The achievement of AutoCAD 2015 Certification Professional provides the participants an industry-accepted credential that they can use to achieve academic success and advance their careers.

Duration (hour): 9 [Theory - 6 , Test - 3]

Who Should Attend

Architects, Interior Designer, Contractors, M&E Designer, Drafters.

Entry Requirement

Must be AutoCAD users who have knowledge in basic drawing skills

Content

Apply skills and knowledge in the following to be ready for the AutoCAD Certification:

- Basic Drawing Skills
- Using Drawing Aids
- Editing Entities
- Controlling Object Visibility and Appearance
- Hatching and Gradients
- Working with Blocks and Xrefs
- Creating and Editing Text
- Dimensioning
- Working with Layouts and Annotative Objects
- Drawing organization and inquiry commands
- Printing and Plotting

Complete AutoCAD Certification Test

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AUTOCAD 2016 (BEGINNER)

Objective

To provide participants with the basic knowledge and skills through hands-on using computer-aided software to create two-dimensional engineering drawings with new features in AutoCAD.

Duration (hour): 30 [Practical - 30]

Who Should Attend

Students, workers, company administrators, sales or technical professionals (technician, draftsmen, engineers and designers) who may need to draw or edit company engineering drawings. Also for those who wish to pick up the skills of AutoCAD.

Content

- AutoCAD Overview
- Working with AutoCAD Interface
- Using Coordinate Systems
- Creating and Selecting Objects
- Working with Layers and Object properties
- Editing Objects
- Annotation Enhancements
- Working with Dimensions
- Creating Dynamic Blocks
- Editing and Extracting Block Attributes
- Managing Content with AutoCAD Design Centre
- Reference Manager
- DWF Enhancements
- Plotting with AutoCAD

This course is conducted by the Design Technology Centre, an authorised Autodesk Training Centre. An Autodesk Certificate and a ITE Certificate of Achievement will be awarded to participants who meet the course requirement. Participants will receive the Autodesk Certificate electronically by email.

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AUTOCAD 2016 (INTERMEDIATE)

Objective

To provide participants with the knowledge and skills in 3D modeling drawings (3D Wire-frame, 3D Surface and 3D Solids)

Duration (hour): 30 [Practical - 30]

Who Should Attend

Participants should have completed the AutoCAD course at the Beginner level and have a good working knowledge of AutoCAD.

Content

- Customized AutoCAD Setting with option dialog box
- Create isometric drawing with isometric snap/grid mode and dimensioning technique
- Workspaces
- 3D co-ordinate system and application
- Defining and manipulating the UCS in 3D space
- Creating 3D Wire-frame models
- Creating User Profile
- Customizing toolbars
- Creating 3D objects using surfaces
- Creating 3D solid modeling
- Sectioning of solids
- Shading and rendering 3D models
- 3D objects dimensioning
- Multiple Tiled View-ports Creation
- Creating and editing views in paper space
- Using In-Place Text Editing
- Raster images
- Plotting Enhancements
- Publishing a 3D DWF file

This course is conducted by the Design Technology Centre, an authorised Autodesk Training Centre. An Autodesk Certificate and a ITE Certificate of Achievement will be awarded to participants who meet the course requirement. Participants will receive the Autodesk Certificate electronically by email.

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AUTODESK 3D MAX

Objective

This course will provide participants with the basic knowledge and skills for 3D modelling, animation and rendering which is essential in illustration, architecture design, information design and any 3D visualisation projects.

Duration (hour): 18 [Practical - 18]

Who Should Attend

Interior and Exterior Designer, 3D Graphic Technician, Project Architect, Environment Artist and Event Planner.

Entry Requirement

Basic knowledge of computer literate.

Content

- Describe the basics of 3D modelling
- Create 3D objects using various techniques
- Add maps and materials to 3D objects
- Add light and camera to the 3D scene
- Animate the 3D scene
- Render the 3D animation into video

Profile of Trainer:

Martin Yong Bao Kwang is the module-coordinator for 3D Project module. He possesses experience in 3D Max modeling teaching. He was attached to G-element for skills deepening. He had made valuable and successful contributions to 3D security project with nucleus server.

* The trainer is subject to change without prior notice.

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BUILDING INFORMATION MODELING (BIM) – DESIGN USING TEKLA STRUCTURE

Objective

Participants will ground their basics in Building Information Modeling (BIM) with Tekla Structures. They will be trained to produce 3D rc and steel structure models, generate 2D drawings and fabrication information, among other skills.

Duration (hour): 30 [Theory - 6 , Practical - 24]

Who Should Attend

This course is suitable for beginners new to Tekla Structures or who are keen to enhance their basic 3D BIM modeling skills. Structural engineers, steel detailers and fabricators, concrete detailers and manufacturers, applicants from construction companies

Content

Focus will be placed on Basic Modeling and Basic Drawing, and will include topics such as modeling of basic structural elements and joint detailing with system components, etc.

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C# PROGRAMMING – CREATE WINDOWS FORMS APPLICATION

Objective

Participants will learn how to use Microsoft Visual Studio software to create a Windows Forms application project using C# Programming language. They will be able to understand the basic C# programming concept through this course.

Duration (hour): 14 [Theory - 6 , Practical - 8]

Who Should Attend

Teachers, students, IT personnel, or individuals who are novices in C# programming and interested in creating a desktop application.

Content

- Describe the process of creating and customizing windows forms.
- Explain the properties of the basic windows controls (or built-in controls).
- Identify the use of variables, arrays, classes, objects, methods, and various arithmetic operators.
- Describe the use of control statements.
- Develop and analyse a Windows Forms application with the use of variables, arrays, classes, objects, methods, and various arithmetic operators.
- Develop and analyse a Windows Forms application with the use of control statements.

Profile of Trainer:

Rogers Chou is a lecturer in ITE. He also possesses a Bachelor of Engineering (Electrical and Electronic Engineering) with 2nd Class Upper Honours, Nanyang Technological University.

* The trainer is subject to change without prior notice.

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COMPUTER MAINTENANCE – BASIC DIAGNOSTIC & REPAIR

Objective

This course is useful as it equips participants with the basic knowledge about personal computers. Participants will also learn about PC hardware and software, maintenance of PC systems and troubleshooting of common problems.

Duration (hour): 30 [Theory - 10 , Practical - 20]

Who Should Attend

For students, workers or technical staff who has little or no basic skills and knowledge about PC hardware and software maintenance.

Content

- Dismantling and assembly of personal computers
- Upgrading of personal computers
- Setting-up of Windows Operating systems and Application Programs
- Understanding the architecture of computer systems
- Understanding the functions of peripheral devices in microcomputer systems
- Set up hard drive subsystem
- Testing peripheral devices of a personal computer system
- Maintenance of personal computers
- Create recovery disk
- Troubleshooting of common problems in personal computers
- Simple home-networking

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CYBER SECURITY - PERSONAL BEST PRACTICES

Objective

This course aims to provide participants with awareness of the recent cyber-attacks and breaches. It covers several good practices at personal level in order to reduce the likelihood of losing personal data and passwords. Learn how to encrypt information when browsing the internet, using portable storage devices & memory cards, and lastly how to manage complex passwords for multiple websites and user accounts.

Duration (hour): 9 [Theory - 3 , Practical - 6]

Who Should Attend

Anyone who rely on IT and the Internet in their daily work routine.

Content

Candidates should be able to :

- List the recent Cyber Attacks, what has been compromised and how it happened.
- Differentiate encrypted and clear traffic on the Internet (http/https).
- Encrypt devices such as laptops & cellphones, as well as removable storage devices such as memory cards.
- Manage complex passwords for multiple websites and accounts.

Profile of Trainer:

1. Ong Chao Xiang, Degree(Hon) in Science and Technology
2. Rashmi Mohan Hedge, Master of Science in Communication Software & Networks (NTU)

* The trainer is subject to change without prior notice.

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ETHICAL HACKING – FUNDAMENTALS

Objective

Participants will learn how to evaluate the internal and external security threats against a network. The lab sessions will cover ways to scan, test, hack and secure the system

Duration (hour): 12 [Theory - 4 , Practical - 8]

Who Should Attend

Security Integrator, Network Technician and IT Technician.

Entry Requirement

Basic PC knowledge

Content

- Describe common threats, vulnerability and attacks
- Describe Footprinting and learn to trace DNS and IP Address
- Describe Network Scanning and Identify active host on a network, open ports and Network Vulnerability
- Describe System Hacking, and learn to hide files and crack administrator passwords
- Describe Trojans and ways to Infect Systems using a Trojan
- Identify and Create Viruses and Worms

Profile of Trainer:

Mr Jaime Masagca has been teaching over 10 years. He is a CISCO Certified Network Professional as well as a Lecturer at ITE College West in the Network Security Technology Department.

* The trainer is subject to change without prior notice.

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EXCEL – DATA ANALYSIS & COLLECTION

Objective

This course introduces features in Excel for data analysis and develops programs to automate data collection. Learn to inspect, clean, transform and model data with the objective of discovering useful information, suggested conclusions and support decision-making.

Duration (hour): 7 [Practical - 7]

Who Should Attend

Marketing and sales department, logistic control and customer service executive.

Entry Requirement

Content

Candidates should be able to :

- Use the features in Excel file to analyse data.
- Define basic concepts of Visual Studio and C# programming.
- Develop C# application for data collection on Excel file.

Profile of Trainer:

Ong Chao Xiang, Degree(Hon) in Science and Technology

* The trainer is subject to change without prior notice.

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EXCEL 2010 – VISUAL BASIC PROGRAMMING

Objective

The participants will introduce the fundamental concepts of Visual Basic for Excel 2010.

Duration (hour): 32 [Practical - 32]

Who Should Attend

Anyone who uses Microsoft Excel

Entry Requirement

Basic computer knowledge

Content

- Apply Data Validation Feature
- Navigate the Integrated Development Environment
- Add and Program a form, label, textbox and button manipulate ranges
- Transfer data between controls and use mathematical operators in programming
- Use the random function in programming and declare & apply integer variables in programming
- Declare and apply string variables and integer/string counters
- Apply the IF-ELSE statement, Boolean operators in programming and Select Case statement
- Add and manipulate the PictureBox
- Add and program tooltips
- Solve real-life problems using programming concepts

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HOME SECURITY – VIDEO SURVEILLANCE MADE EASY

Objective

Video Surveillance does not only cater for security applications, but also to provide care for elderly or young ones through remote monitoring. Participants will learn how to plan and setup a Home Video Surveillance Monitoring System.

Duration (hour): 12 [Theory - 2 , Practical - 10]

Who Should Attend

- Homeowners interested to set up DIY home video surveillance system.
- Contractors interested to offer and deploy video surveillance solution.

Entry Requirement

Basic knowledge of computer literacy

Content

- Understand the basic networking
- Setup and configure home router, wired and wireless network
- Setup and configure wired and wireless IP cameras
- Setup and configure network video recording system
- Design and setup 4 surveillance cameras in a 5 room HDB Flat
- Setup remote access to cloud storage using mobile devices

Profile of Trainer:

Loh Kia Lok has been supporting the Security Technology Department for almost 10 years. He has been involved in a few CCTV project deployment and maintenance of training equipment. During the ITE Fiesta, he also conducted the CCTV training course and received overwhelming response.

* The trainer is subject to change without prior notice.

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IMOVIE FOR MAC – CREATE MOVIES & TRAILERS (BEGINNER)

Objective

This training focuses on the process of creating a movie using the template in iMovie in iPad which involves various editing techniques.

Note : Participants are required to bring their own Mac iPad device.

Duration (hour): 7 [Practical - 7]

Who Should Attend

This course is recommended for individuals who are interested to learn more and create their own personal movies.

Content

- Understand the key functions for photo-taking and Video recording on iPad
- Create a new project with iMovie on iPad
- Locate and Use the default template within iMovie for their new project
- Demonstrate the steps for importing videos or pictures into iMovie
- Insert text / title and other elements to the project
- Demonstrate the Use of transition browsers in iMovie
- design the flow of the Video using the outline and storyboard tool on iMovie
- Shoot and import Video clips based on the theme given by the instructor
- Export Video for various platform

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INTERNET OF THINGS-CONNECT DEVICES USING THINGBOX

Objective

Learn about the exciting world of Internet of Things (IOT) that is impacting our daily lives in a significant way. Deploy connected objects using a “Thingbox” (a free and open-source project designed to let casual coders create programs)

Duration (hour): 12 [Theory - 5 , Practical - 7]

Who Should Attend

Technical or lay people who want to understand and enter the emerging world of the Internet of Things. (IoT)

Entry Requirement

Basic Computer Knowledge. No programming experience is required

Content

- Explain the concept of the internet of things (IOT)
- Describe the technologies that make up IOT.
- Setup and connect an IOT device to the internet
- Describe the common peripherals used for IOT
- Access the programming UI for the IOT device
- Enable sensor functionality and record some data
- Process the data recorded in the cloud
- Display the collected data on an end-user device

Profile of Trainer:

Lee Wei Shun is an Electrical Engineer by training, and has over 15 years' experience in the IT industry. He holds a Masters in Knowledge Engineering from the Institute of Systems Science (NUS).

* The trainer is subject to change without prior notice.

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IP NETWORKING - CONFIGURE LAN, WAN, INTERNET & INTRANET FOR PHYSICAL SECURITY PROFESSIONALS

Objective

This course will provide students with a basic knowledge of computer networking. It will cover LAN, WAN, internet and intranet, IP addresses, port numbers and a brief introduction to routers and switches.

Duration (hour): 12

Who Should Attend

Technical people doing deployment and servicing of Physical Security Systems including IP based Video Surveillance Systems and access control systems.

Content

- Describe OSI 7 layers architecture and the function of each layer.
- Differentiate between LAN, WAN, Internet, Intranet and the various types of network topologies
- Derive IPv4 addresses based on given constraints and configure the IPv4 addresses
- Describe the parts and workings of a switch and VLANs
- Describe the parts and workings of a router

Profile of Trainer:

Philip Koon has 4 plus years of teaching Computer Networking and he is also a Cisco Certified Network Associate Instructor Trainer. Prior to his teaching career, he has many years of industry experiences, supporting and managing the IT department of multi-national companies.

* The trainer is subject to change without prior notice.

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IP VIDEO - ADVANCED SURVEILLANCE SYSTEM

Objective

This course provides participants the technology, concepts, operation, design and deployment considerations of a Digital Video Surveillance System

Duration (hour): 24

Who Should Attend

Electronics security installers, technicians, security personnel or anyone interested to learn about Digital Video Surveillance Technology and Design.

Entry Requirements

Knowledge of basic Video Surveillance technology

Content

- Design, setup and configure an IP Network
- Setup and configure an IP Camera
- Design, deploy setup and configure a Video Management System
- Troubleshooting of a Network Video Surveillance System

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IP NETWORKING - WIFI WIRELESS NETWORKING & REMOTE ACCESS FOR PHYSICAL SECURITY PROFESSIONALS

Objective

This course will introduce students to WiFi wireless networking, methods for remote access. It will provide a basic understanding of network security, the purpose and methods of network monitoring and address network troubleshooting.

Duration (hour): 12

Who Should Attend

Technical people doing deployment and servicing of Physical Security Systems including IP based Video Surveillance Systems and access control systems.

Entry Requirement

Basic Networking knowledge eg Part 1 of this course

Content

- Describe WiFi wireless networks and list the various standards available.
- Set up a wireless access point
- Describe the various methods for remote access
- Explain the need for network security and describe methods to secure networks
- Describe the purpose and methods of network monitoring
- Perform basic network troubleshooting

Profile of Trainer:

Philip Koon has 4 plus years of teaching Computer Networking and he is also a Cisco Certified Network Associate Instructor Trainer. Prior to his teaching career, he has many years of industry experiences, supporting and managing the IT department of multi-national companies.

* The trainer is subject to change without prior notice.

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IT LITERACY - DESIGN AN EMAILER

Objective

Participants will learn the skills in layout, design and simple HTML coding which help to personalize and package their emailer. At the end of the course, they will also be able to do a simple email blasting through their email and Facebook accounts.

Duration (hour): 7 [Theory - 2 , Practical - 5]

Who Should Attend

Print graphic artist / designer, Junior Web Designer, Project & Accounts Executives and Students.

Entry Requirement

Basic graphic design knowledge.

Content

- Understand and create emailer layout
- Design emailer with theme and incorporate colour scheme
- Manipulate images
- Create simple HTML page
- Upload files onto server
- Blast completed emailer via personal email and Facebook accounts

Profile of Trainer:

Siah Peih Wee has attained 8 years of industry experience as a flash games & interactive developer at NEOPETS, THE UPPER STOREY, BOONTY, Rainbow S.p.A and Lionstork Studios. He also has 3 years of teaching experience as an Adjunct Lecturer at Singapore Polytechnic and 3dsense Media School.

* The trainer is subject to change without prior notice.

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IT LITERACY - USE COMPUTER (MANDARIN)

Objective

This course aims to equip course participants with the knowledge and skills of using a computer and its basic functions.

Duration (hour): 12 [Theory - 4 , Practical - 8]

Who Should Attend

Individuals who are interested to learn the basic usage of computer

Content

- Know the different parts and basic functions of computer
- Usage of mouse
- Create and Save Document
- Exploring Internet
- Using email

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PHOTOGRAPHY – PICTURE STORAGE & MANAGEMENT USING CLOUD

Objective

Participants will learn to upload and download photos on the cloud server. They will also learn how to share cloud server links using emails.

Duration (hour): 7 [Practical - 7]

Content

- Use cloud servers to upload photos
- Use cloud servers to download photos
- Share photos using cloud servers using email.

Profile of Trainer:

Mr Ong Chao Xiang

Chao Xiang is currently a lecturer at ITE College West, and he has a Degree(Hon) in Science and Technology.

* The trainer is subject to change without prior notice.

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SMART NATION CAPABILITY DEVELOPMENT PROGRAM (SNCDP) - CISCO CERTIFIED NETWORK ASSOCIATE (CCNA)

Objective

On completion of the module, participants will be able to configure and troubleshoot routers and switches and resolve common routing issues, configure and troubleshoot network devices and resolve common issues with WAN technologies and network services employed by converged applications in a complex network.

Duration (hour): 40 [Theory - 13.5 , Practical - 26.5]

Who Should Attend

IT professionals or any individuals who desire a practical, technical introduction to the field of networking and are interested in careers as Network Technicians, Associate Network Engineers and Network Engineers.

Entry Requirement

Completed CCENT module or equivalent, or Possess valid Cisco Certified Entry Networking Technician (CCENT) Certification.

Content

- Implement a Network Design
- Expand the Network
- Select appropriate Network Devices
- Explain Spanning Tree Concepts
- Configure Spanning Tree
- Explain the concept of First Hop Redundancy Protocols
- Explain the concepts of Link Aggregation
- Configure Link Aggregation
- Explain Wireless Networking
- Explain and configure Advanced Single-Area OSPF
- Explain and configure Multiarea OSPF Operation
- Explain the Characteristics of EIGRP and able to configure
- Manage IOS System Files
- Explain Hierarchical Network Design Overview
- Select a WAN Technology
- Explain Serial Point-to-Point Overview
- Explain HDLC Encapsulation
- Explain and configure PPP Operation
- Explain Frame Relay
- Explain the different types of NAT
- Explain the different Broadband Solutions
- Secure Site-to-Site Connectivity
- Monitor the Network using networking tools

Profile of Trainer:

Chia Kin Seng

- Cisco Certified Network Associate Certifications, Cisco Systems, Inc.
- Cisco Certified Network Associate Security, Cisco Systems, Inc.
- Master of Information Technology Management, University of Wollongong, Australia
- Advanced Diploma In Data Communication & Networking, Ngee Ann Polytechnic
- Diploma In Electronic Engineering, Ngee Ann Polytechnic
- Diploma In Supervisory Management Studies, Institute of Supervisory Management

** The trainer is subject to change without prior notice.*

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WEB DEVELOPMENT – RESPONSIVE WEB DESIGN

Objective

This course aims to equip course participants with the skills and knowledge to build responsive web pages that provide seamless and optimal user experience across a wide range of devices from desktop monitors to mobile phones.

Duration (hour): 9 [Theory - 3 , Practical - 6]

Who Should Attend

Web designers/developers who need to design and implement responsive web pages that cater to a wide range of devices from desktop monitors to mobile phones.

Entry Requirement

Applicants are required to have basic knowledge and prior use of HTML and CSS.

Content

- Describe the roles of HTML5 and CSS3 in building responsive web pages.
- Build a responsive web page using HTML5 and CSS3.
- Describe the use of CSS frameworks for building responsive web pages.
- Build a responsive web page using a CSS framework.

Profile of Trainer:

Peter Leow possesses Master of Technology (Knowledge Engineering), NUS & Graduate Diploma in Systems Analysis, NUS.

He has more than 15 years of teaching and software development experience. Most Valuable Professional (MVP) 2015 awarded by <http://www.codeproject.com/Members/peterleow>.

He is also the owner of www.peterleowblog.com.

* The trainer is subject to change without prior notice.

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WEB SERVER – CONFIGURE WEB SERVER, REGISTRATION, FEEDBACK & ADMIN PAGES

Objective

Learn to design and develop dynamic, database-driven web pages using PHP Programming with Dreamweaver. In addition, students also learn how to configure PHP and Apache Web Server.

Duration (hour): 15

Who Should Attend

Web developer or programmer.

Entry Requirement

Preferably completed the course “Web Server – Set-up Web Servers, Create Web Pages & Maintain Websites”

Content

- Differentiate static and dynamic websites. Configure PHP and Apache Web Server
- Create Registration, Feedback and Admin Form
- Create MYSQL database for Registration, Feedback and Admin pages
- Use Dreamweaver to connect to MYSQL database
- Set-up Form validations
- Implement projects

Profile of Trainer:

Rajesh worked in the software developer industries prior to his current job as an academic leader in Institute of Higher Learning. A strong believer in life-long learning, Rajesh is constantly upgrading his skills and knowledge and is eager to share his knowledge and skills. Rajesh holds a Bachelor degree in Software Engineering. He is also trained in pedagogic approach in technical education. In the past ten years, Rajesh had been actively engaging in web development projects.

* The trainer is subject to change without prior notice.

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WEB SERVER – SET UP WEB SERVERS, CREATE WEB PAGES & MAINTAIN WEBSITES

Objective

Participants are trained to install, configure and maintain web/media servers and browsers. They will also learn how to create HTML documents using authoring tools and design simple web pages. This course uses Macromedia Dreamweaver.

Duration (hour): 15

Who Should Attend

Web designers, and interested public members.

Content

Set up Web Browser

- Explain how the Internet works
 - Internet client/server model
- Describe the process of installing, configuring and using a web browser.

Introduction to HTML

- Explain HTML and structure of a HTML file
- Introducing HTML tags

HTML Tags

- Use text formatting HTML tags
- Use images HTML tags
- Use web page linkage HTML tags
- Use table HTML tags
- Use frame HTML tags

Create Web Forms

- Identify and use form HTML tags
- Pass information via web forms
- Create a web site

Introduction to Web Server

- Define the roles of a web server
 - Security Features
- Install and configure a web server

Managing Web Sites

- Describe the process of creating Websites
 - Creating virtual directories

Profile of Trainer:

Rajesh worked in the software developer industries prior to his current job as an academic leader in Institute of Higher Learning. A strong believer in life-long learning, Rajesh is constantly upgrading his skills and knowledge and is eager to share his knowledge and skills. Rajesh holds a Bachelor degree in Software Engineering. He is also trained in pedagogic approach in technical education. In the past ten years, Rajesh had been actively engaging in web development projects.

* The trainer is subject to change without prior notice.

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MOBILE PHONE - ESSENTIAL SERVICING SKILLS

Objective

Participants will be able to provide practical knowledge in proper fault findings, troubleshooting and repair of mobile phone device.

Duration (hour): 18 hours [Theory – 6 hours, Practical – 12 hours]

Who Should Attend

Technical staffs, engineers, technicians, students in Electronics courses, technical supervisors, entrepreneurs and hobbyists

Entry Requirements

Able to read / write English, basic skills in electronics and soldering

Content

- Safety working procedures / identifying tools & equipment / handling of repair procedures
- Safety handling when performing disassembly / assembly
- Perform software update and learn how to solder/desolder
- Troubleshoot and repair
- Read RF measurement using Radio Communication Tester

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SMART PHONE - DEVELOP ANDROID APPS (BEGINNER)

Objective

This course introduces Android Studio for developing mobile applications. Students will learn to design user interfaces with Android Studio and will be taught to develop a simple project for an Android Smart Phone.

Duration (hour): 18 hours [Theory – 6 hours, Practical – 12 hours]

Who Should Attend

Anyone who is keen to learn the basics of developing mobile applications for Android Devices, namely Smart Phones.

Content

Introduction to Android.

- Familiarise with Android Studio
- Design User Interface with Android Studio
- Test with emulators and real devices.

Apply Relative Layout and Event Handler (Project BMI)

- Use a Spinner
- Apply List View and List Activity
- Use Intent with Multiple Activities

Project: Create an app with two Activities, main activity and detail activity e.g. Car model, detail specifications)

Link to Websites – (Project: create an app with shortcuts to your favorite websites)

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PHOTOGRAPHY & PHOTO EDITING

Objective

This course provides participants with the knowledge on how to compose and take good photographs using a digital camera, Adobe Photoshop interface and basic features, editing and enhancing the photographs in Adobe Photoshop.

Duration (hour): 15 hours [Theory – 8 hours, Practical – 7 hours]

Who Should Attend

Photography enthusiasts, digital image editors, multimedia designers, graphic designers, media and advertising executive

Entry Requirements

Familiarity with basic computer usage

Content

- Photography basics on lightings and composition
- Camera features and how to use a camera
- Outdoor photography
- Photograph critic and appreciation
- Indoor photography and photograph critic
- Understanding Adobe Photoshop features
- Enhancing photographs with Adobe Photoshop

Note: Participants are expected to bring their own DSLR cameras.

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WINDOWS SERVER 2012 – SET UP AND HARDENING

Objective

Learn about Windows Server 2012 and get hands-on instruction and practice installing and securely configuring Windows Server 2012.

Duration (hour): 7 hours [Theory – 3 hours, Practical – 4 hours]

Who Should Attend

IT Technicians or anyone interested in windows server.

Entry Requirements

Basic Computer Knowledge

Content

- Define Windows Server 2012
- Install Windows Server 2012
- Configure Windows Server 2012 (Post-Installation)
- Describe Windows Server 2012 Management
- Describe Windows Server Operating System Security
- Configure Security Settings
- Configure Windows Firewall

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ANIMATION - DEVELOPED MARKETING & COMMUNICATION VIDEO USING POWTOON

Objective

The course provides basic skills for participants to create an interesting video presentation to engage their audience.

Duration (hour): 7 hours [Practical – 7 hours]

Who Should Attend

Anyone who needs to do publicity or presentations at their workplace

Content

- Describe the setup of Powtoon video creation environments.
- Develop basic storyboard using guides from Powtoon
- Create a Powtoon animation project in your area of workplace

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SETTING UP AND MANAGING A LINUX OPERATING SYSTEM USING UBUNTU (FOR BEGINNERS)

Objective

This course provides participants with hands on, practical sessions on Ubuntu, covering tasks that are commonly needed in a home or office environment, such as connecting to a wired/wireless network, software installation, alternative office applications as well as interoperability with Windows software.

Duration (hour): 15 hours [Theory – 7; Practical – 8 hours]

Who Should Attend

SME administrators, students, IT engineers, system support officer, power users and home users.

Entry Requirement

Knowledge of Microsoft Windows Operating System

Content

- Understand the concept of FOSS
- Free and Open Source Software
- Understanding the hardware requirements of a Linux Operating System
- Understanding the concept of software repository
- Install Linux software
- Setup networking and multimedia software for Linux
- Understand and configure alternative office productivity suites
- Understand application virtualization
- Setup and configure Windows Emulation software
- Maintain and update Linux system

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AIR-CONDITIONING - R32 SAFETY AWARENESS TRAINING

Objective

This course introduces participants to the R32 refrigerant which addresses the environmental concern regarding both global warming and ozone depletion.

Participants will be more aware of the climate change; understand why R32 is selected as the next generation refrigerant and learn to handle R32 safely as this is classified as lower flammability.

On completion of the course, participants should be able to install the R32 airconditioning unit safely.

Duration (hour): 6 hours [Theory – 5; Practical – 1]

Who Should Attend

Air-conditioning installer, air-conditioning technician & mechanics

Content

- Impact of refrigerant on environment
- Life Cycle Climate Impact
- Flammability assessment of R32
- R32 refrigerant and oil
- Installation and servicing
- Practical demonstration: R32 Flammability Test

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INTRODUCTION TO MANAGING A HAWKER BUSINESS

Objective

To provide learners with the basic knowledge and skills to perform basic profit and loss analysis, identify external stakeholders like competitors, suppliers and customers, apply the principles of marketing and writing a simple business plan.

Duration (hour): 7.5 hours

Content

- List the revenue and costs of starting and running a hawker stall
- Perform simple profit and loss analysis
- Identify competitors and the target customer groups
- List the criteria when selecting suppliers
- State ways of creating a positive experience when interacting with guests
- Describe the principles of marketing
- Beautifying a hawker display
- Introduction to simple business plan writing
- Describe the process of applying for hawker stall

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