



Electrical Safety at the Workplace

understanding proper guidance and electrical safety work procedures

HRDF

www.zohlgroup.com

COURSE CODE: H-EE-05

LEVEL: Basic

LANGUAGE: English & Bahasa

OVERVIEW

Realizing the "danger" means danger to health or human life or limb from shock, burn, or other injury and includes danger to property, or installation or equipment resulting from generation, transmission, distribution or utilization of electricity as stipulated by the Electricity Act 1990 and Regulations 1994, a serious action should be taken to avoid occurrence of such hazards as mentioned above.

This course is specially designed to provide appropriate guidance and safety work procedures to avoid the existence of danger while doing works at workplace.

OBJECTIVES

Upon completion of this program, participants will be able to learn:

- What Are The Hazards?
- Assessing The Risks & Reducing The Risk Of Electrical Accident
- Common Risk Control Measures
- Unsafe Electrical Equipment
- Inspecting And Testing Of Electrical Equipment
- What Is A Hostile Operating Environment?
- Ensure The Electrical Installation Is Safe
- Safe Equipment & Provide Safety Devices
- Carry Out Preventive Maintenance And/or Predictive Maintenance
- Work Safely
- IEE Wiring Regulations Chapter 13

COURSE BENEFITS

When you complete this training, you will be able to describe the flow of electrical current, describe common hazards of electricity, and practice safety procedures to prevent injury, damage, and death caused by electrical hazards.

COURSE DURATION

2 days (9am—5pm)

Tea Breaks: 10:30am & 3:30pm

Lunch: 1:00pm-2:00pm

Note: Please contact our office for Training Date or visit our website for details (www.zohlgroup.com)

METHODOLOGY

This program will be conducted with:

- Interactive Lecturers
- PowerPoint presentation
- Discussions
- Practical Exercise | Role Play | Case Study

TARGET AUDIENCE

Technical And Non-Technical Personnel In All Sector Of Industries, Commercials, Offices, Educations, Securities, Etc.

LOCATION

Mindset Discovery Center™@ZOHL, Bandar Sri Damansara, Kuala Lumpur or Client's Preferred Location or any hotel in the selected Region(s)

COURSE CONTENT

INTRODUCTION

Take care when using electricity | Electricity can kill or severely injure people and cause damage to property | Every year many accidents at work involving electric shock or burns | Most of the fatal incidents are caused by contact with energized electric circuits | Even non-fatal shock can cause severe and permanent injury | Those using or working with electricity may not be the only ones at risk – poor electrical installations and faulty appliances can lead to fire

ASSESSING THE RISKS

In wet surrounding – unsuitable equipment can easily become live
Outdoors equipment may not only become wet but may be at greater risk of damage | In cramped space with a lot of earthed metalwork such as inside a tank – if an electric fault developed it could be very difficult to avoid a shock | Some items of equipment can also involve greater risk than others

REDUCING THE RISK OF ELECTRICAL ACCIDENT

Ensure people working on or with your electrical equipment or system are competent for the risk

COMMON RISK CONTROL MEASURES

Ensure only appropriately licensed or registered electricians/wireman/chargeman carry out electrical work | Provide safe and suitable electrical equipment | Inspect leads for damage before use and removing any that are damaged from the workplace | Practical ways of arranging electrical leads to avoid damage

UNSAFE ELECTRICAL EQUIPMENT

Any unsafe electrical equipment within their management or control is to be disconnected or isolated from its electricity supply

Consider implementing certain specified procedures to ensure unsafe equipment is not used at a workplace

INSPECTING AND TESTING OF ELECTRICAL EQUIPMENT

Regular visual inspection can identify obvious damage that could cause unsafe equipment

Regular testing can detect electrical faults and deterioration

The electricity regulations have specific requirements for electrical equipment uses in a hostile operating environment

WHAT IS A HOSTILE OPERATING ENVIRONMENT?

An environment where electrical equipment is exposed to operating conditions that are likely to result in damage to electrical equipment | Inspecting and testing electrical equipment under hostile operating environments | Hire equipment must ensure it is inspected and tested for safety operation | Records of testing electrical equipment used in hostile operating environment

ENSURE THE ELECTRICAL INSTALLATION IS SAFE

How to make sure that the electrical system are installed to a suitable standard? Provide safe and suitable equipment

SAFE EQUIPMENT

Provide safe and suitable equipment

Choose equipment that is suitable for its working environment

PROVIDE SAFETY DEVICES

Installation of safety devices like protective relays for over-current, overload and earth fault protection

CARRY OUT PREVENTIVE MAINTENANCE AND / OR PREDICTIVE MAINTENANCE

Electrical installation should be scheduled for regular maintenance such as preventive and predictive maintenance to avoid danger and create continuous safety operation

WORK SAFELY

Make sure that people who are working with electricity are competent to do the job

Check that suspect or faulty equipment is taken out of use

Tools and power socket outlets are switched off before plugging in or unplugging

Strictly follow all safety and danger notices

OPEN DISCUSSION (Q & A SESSION)

Customized In-House Training Program is available in the following areas:

Administrative Skills | Career Development | Human Resources | Personal Development | Sales & Marketing | Leadership & Management | Workplace Essentials | Entrepreneurship | Soft Skills | HSE | Engineering | Telecoms | IT

CALL US FOR DETAILS or VISIT OUR WEBSITE AT WWW.ZOHLGROUP.COM

Sebarang pertanyaan sila hubungi Cik Niesa

ZOHL Consultancy Sdn Bhd (332967-D) (SST ID: W10-1810-32000429)

M2-15-02, Level 15, 8trium Tower 2, Jalan Cempaka SD 12/5

Bandar Sri Damansara, 52200 Kuala Lumpur

T: 03.6279.9276 F: 03.6279.0663 HP: 013.398.1038 E: training@zohlgroup.com





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COURSE FEE

RM1,272 per person incl. 6% SST
(Fee inclusive of Course Material, Attendance Certificate, and Meals)

CERTIFICATE

Participants will be issued a Certificate of Attendance/ Accomplishment upon successful completion of this training program. Full attendance is a pre-requisite.

CIDB CCD Points

20 (for CIDB-Registered Companies) & upon approval from CIDB

HRDF CLAIMABLE

Yes. SBL Khas. If your company contributes to HRDF Fund

REGISTRATION METHOD

1. **Online:** http://zohlgroup.com/hrdf_registration/ OR
2. Download this brochure at: <http://zohlgroup.com/hrdf-brochures/> and fill up the required information. Then please fax to: 03.6279.0663
3. Or contact our office at: 03.6279 9276 / 013.398.1038

FACILITATOR

Sathy Vel Naidu - Sathy has more than 25 years of experience in the Mechanical and Electrical (M&E) industry.



Over the span of his career he has gained significant knowledge in project management, electrical systems troubleshooting & maintenance, and systems design & engineering. In addition to managing projects he has also started sharing his knowledge through training services under ZOHL

Technical Programs.

Education:

- Electrical Chargeman License
- Certificate in Westinghouse Electrical Systems
- Power Systems Auditor for Procter & Gamble
- Radiation Safety Training for Honeywell TDC 3000

Experience:

- Electrical Technician for Hitachi Electronics Devices Singapore
- Testing & commissioning supervisor for Toyo Engineering
- Asst Engineer for FPG Oleochemicals Sdn Bhd
- Maintenance Manager FPG Oleochemicals sdn Bhd
- Engineering Director at Pakat Perkasa Sdn Bhd
- Lightning & Earthing Protection Systems Trainer for Celcom.
- Electrical Trainer for Leighton Offshore.
- Technical Trainer @ZOHL

*Note: Trainer availability is subject to change

REGISTRATION FORM

Participant#1: _____

Position: _____

IC No: _____

Participant#2: _____

Position: _____

IC No: _____

Training Date: _____

Organization: _____

Address: _____

Contact Person: _____

Position: _____

Tel: _____

Fax: _____

Email: _____

PAYMENT

CASH: RM _____ OR

CHEQUE No: _____

Please fax your bank-in slip to 03.6279.0663 or scan your bank-in slip and email to training@zohlgroup.com

*Please make your cheque payable to:

ZOHL Consultancy Sdn Bhd



Account No:
514392303373

Signature & Company Stamp

Note:

- Date & venue of seminar subject to changes
- Payment must be made 7 days before the training date
- Registration cancelled 7 days prior to the event is subject to RM100 service charge per participant
- No refunds for notice received less than 7 days prior to the event. A substitution may be made at any time at no extra charge.
- Program content may change subject to revision by our consultants from time to time.
- Full fee is required with your registration. 5% Group discount is available - min 3 pax.

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