



## BUILDING SERVICES & MANAGEMENT

An update on current industry best practice in Building Services & Management

[www.zohlgroup.com](http://www.zohlgroup.com)

**COURSE CODE:** NT-MG-04 **LEVEL:** Basic to Intermediate

**LANGUAGE:** Bahasa & English

### OVERVIEW

This two-day course covers building services found in commercial buildings. The course looks at heating and cooling systems, how to use them efficiently and how they fit within a building.

Electrical and renewable systems are also covered allowing the delegate to understand how they can have a considerable impact on the buildings energy use.

A section on Maintenance and Legislation is incorporated to highlight the importance of regular maintenance and keeping up to date with current building legislation.

### OBJECTIVES & LEARNING OUTCOMES

Main learning outcomes of this course:

- How construction affects building services
- Understanding energy consumption within buildings
- Appreciation of electrical plant and equipment used in final distribution and circuits
- Understanding of heating and cooling systems in buildings
- Why heat recovery is important in efficient buildings
- Knowledge of complex HVAC systems
- Understand why regular maintenance is important for trouble free operation
- Importance of legislation and record keeping

### 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](http://www.zohlgroup.com))

### METHODOLOGY

This program will be conducted with:

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

### TARGET AUDIENCE

The course is designed for those wanting to achieve a level awareness of how building services and electrical systems operate within commercial buildings eg:

- Facilities and Building Managers
- Building Service contractors
- Project Managers
- Mechanical & HVAC Engineers
- Architects
- Energy Assessors
- Air Conditioning Inspectors

### LOCATION

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

### KEY AREA

- Energy consumption and electrical services
- Electrical generation and renewables
- Ventilation and heat recovery
- Building heating
- Hot water and controls
- Simple and complex cooling systems
- Equipment Maintenance
- Legislation and statutory requirements
- Drainage and water services
- Building Regulations

### COURSE CONTENT

#### MODULE 1: Heating and Cooling

- Closed circuit water systems – Heating & Cooling
- Packaged Air Conditioning Systems.
- Centralised Air Conditioning Systems, including AHUs.
- HVAC Controls encountered on Commercial Buildings.

#### MODULE 2: Heating, Cooling & Electrical Services

- Domestic Hot Water systems.
- Ventilation and Heat Recovery,
- Combined Heat and Power Systems (CHPs)
- Lighting,
- LV Electrical Services – Switch Boards, Distribution Boards & Final Circuit

#### MODULE 3: Maintenance

- Maintenance
- PPM Scheduling
- Maintenance issues and how they affect system efficacy.
- Life Cycle of an Asset

#### MODULE 4: Legislation and Statutory Requirements

- Energy Performance of Building Directive (EPBD)
- Legionella Bacteria Control
- F-gas Legislation
- Regulatory Reform Fire Safety – Fire Risk assessments
- LOLER – Thorough Examination & Inspections
- Fixed Installation and Portable Appliance testing
- Drainage and water services
- Building Regulations
- Record Keeping

**Note:** Course Content subject to further review



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](http://WWW.ZOHLGROUP.COM)



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## COURSE FEE

### Peninsular Malaysia

- **With Green Card: RM530.00** per person incl. 6% SST
- **Without Green Card: RM636.00** per person incl. 6% SST

### Sabah & Sarawak

- **With Green Card: RM636.00** per person incl. 6% SST
- **Without Green Card: RM742.00** 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)

## REGISTRATION METHOD

1. **Online:** [http://zohlgroup.com/cidb\\_registration/](http://zohlgroup.com/cidb_registration/) **OR**
2. Download this brochure at: <http://zohlgroup.com/cidb-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 : \_\_\_\_\_

Position : \_\_\_\_\_

IC No: \_\_\_\_\_

**Note:** please duplicate this page for multiple participants' registrations

Green Card No: \_\_\_\_\_ (only if it is applicable)

CIDB Grade G : \_\_\_\_\_ (only if it is applicable)

Training Date: \_\_\_\_\_

Training Venue: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Contact Person: \_\_\_\_\_

Position: \_\_\_\_\_

Tel: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Company Website: \_\_\_\_\_

## 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 [plbk@zohlgroup.com](mailto:plbk@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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Sebarang pertanyaan sila hubungi Cik Niesa

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

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