

# Standard

# Engineering Consultant

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**Continuous Contractor Development  
(20 points CCD CIDB)**

**Title: Building Mechanical & Electrical Works  
(HVAC, Fire Fighting & Wireman)**

Venue : Online Course – **Zoom Meeting ID 89444586673**  
<https://us02web.zoom.us/j/89444586673?pwd=ZHZzc2dLeUM5djc0dHVJdEJTRXoydz09>

Date : 8-9 April 2022 (Friday & Saturday)  
Time : 8.00 am – 5.00 pm

## **OBJECTIVES**

- 1) To design for the commercial Ventilation and Air-Conditioning System.
- 2) To design for the commercial Fire Fighting System.
- 3) To design for the domestics Water Supply System.
- 4) To design for the domestics Sanitary System.
- 5) To design & testing for the domestic electrical wiring system.

## **SYNOPSIS**

**BUILDING MECHANICAL & ELECTRICAL WORKS (HVAC, FIRE FIGHTING & WIREMAN)** is the course will exposed the fundamentals of Mechanical & Electrical building services. The topics to be covered in the Mechanical Portions are design of Domestic Water Supply System & Sanitary System, Commercial Fire Prevention System, Ventilation and Air-Conditioning System. Contractors will be exposed more on design using professional charts and codes and catalogues from manufacturers. The electrical portion of the course covers single phase and three phase system and the commercial practice of electrical wiring design based on the *Garis Panduan Pendawaian Elektrik di bangunan kediaman Suruhanjaya Tenaga*.

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### Tentative:

Date	8.00am	8.30am	10.00am	10.30am	1.00pm	2.00pm	4.30pm
8 April 2022	Register	<b>Introduction</b> -Mechanical & Electrical (M&E) Works -Standard & Code of Practices	Tea Break	Design for the commercial <b>Ventilation and Air-Conditioning System (HVAC).</b> -Cooling Load ASHRAE/ ACCA. -Ventilation Duct & Fan system.	Lunch	Design for the <b>commercial Fire Prevention System</b> (hose reel, sprinkler & fire alarm system) <b>-Guide to Fire Protection in Malaysia</b> (Bomba Red Book)	-
9 April 2022	-	Design for the <b>domestics Water Supply System.</b> Design for the <b>domestics Sanitary System.</b>	Tea Break	Design for the <b>domestic electrical wiring system</b> -Garis Panduan Pendawaian Elektrik di bangunan kediaman Suruhanjaya Tenaga -Cable Size (Load, current, correction factor, voltage drop)	Lunch	<b>-Grounding system &amp; earthing method</b> <b>-Electrical Testing</b> (Continuity, insulation, polarity, protection & earthing)	Closing ceremony



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Topic

Building Mechanical & Electrical Works (HVAC, Fire Fighting & Wireman)

Description

1)Design for the HVAC system (Cooling Load ASHRAE/ ACCA, Duct & Fan system).  
2)Design for the Fire Fighting system based on the Guide to Fire Protection in Malaysia.  
3)Design for the Water & Sewerage domestic system based on SPAN guidelines.  
4)Design for the residential electrical system & testing based on Garis Panduan Pendawaian Elektrik di bangunan kediaman Suruhanjaya Tenaga

Time

Apr 8, 2022 08:00 AM Kuala Lumpur

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