

3-SATURDAY COURSE ON GENERAL INFRASTRUCTURE WORKS ENGINEERING DESIGN

**TRAINING
DATES!!**

APRIL 2026 : 4, 11 & 25



**HYBRID COURSE
(ONLINE & PHYSICAL)
ZOOM & WISMA IEM**



**LIMITED TO
20 PARTICIPANTS**



**3 SATURDAYS
9 AM - 5 PM
4 - 25 APRIL 2026**



**ONE OF FIVE STRUCTURED
TRAINING MODULES IN
CIVIL
ENGINEERING DESIGN SERIES**

Course overview

This course is designed to strengthen your understanding of the following areas:

- General Infrastructure works (including water supply, earthworks, road works, drainage and sewerage works).
- Water Supply Design to SPAN Guidelines
- Fire Hydrant Design (calculation of water pressure)
- Sewerage Design to MS 1228
- Drainage Design to Manual Baru Saliran Mesra Alam (MSMA)

Learn all courses from your
home or IEM classroom



03-7890 0137 (Structured Training)



iemst@iem.org.my

FEES	PHYSICAL CLASS (RM)	ONLINE CLASS (RM)
Corporate Member	1200	1020
Graduate Member / Senior Graduate	1200	1020
Non-Member	1600	1400

Rate stated subject to 8% SST

COURSE FORMAT

The course consists of classroom presentations. Participants are encouraged to actively engage in discussions.

For online class, the participants are required to switch on their camera for verification purposes any time requested.

INFORMATION ON REGISTRATION

Registration fees cover course notes. If a place is reserved and the intended participants failed to attend the course on the date of the event the fee is to be settled in full. Booking fee paid is non-refundable. However, substitution of participants will be permitted with approval by IEM. In view of the limited places available, intending participants are advised to send their registration as early as possible so as to avoid disappointment.

The Special Committee reserves the right to alter or change the programme due to unforeseen circumstances. However, every effort will be made to inform registered participants of any changes.

If you require further details or clarifications kindly contract the IEM Secretariat at:

The Institution of Engineers, Malaysia
Lot 60/62, Jalan 52/4
46720 Petaling Jaya
Selangor Darul Ehsan

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JOIN NOW

THE FACILITATORS



Ir. Azman Abu Bakar
MIEM, PEPC

Ir. Azman Abu Bakar graduated with a BSc. (Hons.) in Civil Engineering from The George Washington University in 1984. He has been a Managing Director (Principal) at Perunding Azman, Ooi and Rao (PAOR Consultants) for the last 30 years. He is one of the pioneers in urban drainage, being involved with MSMA since the early years. He is the “Proctor” appointed by EnviroCert International (ECI) for Malaysia since 2013. This means that he is the representative for ECI to conduct ECI certification courses in Malaysia. ECI, based in the USA is the only international organization offering certification courses for professionals world-wide in Erosion control, stormwater management and water quality management.

Ir. Azman has extensive experience in design, supervision and consultancy of flood mitigation, rainwater harvesting and also drainage projects among others, being involved in these for more than 35 years.

THE FACILITATORS



Ir. Manogaran K. Raman
MIEM, PEPC

Ir. Manogaran graduated with a B.Eng. (Hons.) Civil Engineering in 1985. He is the Reicon Consult Principle from 1996. He has been involved in the design of infrastructure and structural works for the following:

1. Mixed Development
2. Foundation design for telecommunication towers
3. Vehicle Underpass design
4. Coordinator for 31 Tamil schools
5. Temporary works for tunnels
6. Factory, bungalows, shoplots
7. 17 storey Selangorku residential building

He also worked with Ihsan Team Consult Sdn Bhd as Chief Resident Engineer from 2012 to present. He has been involved in design and build facilities for EC725 Eurocopter Kuantan, TUDM. Since 1988, he has worked with various engineering companies such as MuMoorthy Corporation Sdn. Bhd., Seri Jurutera Perunding, Arup Jururunding Sdn. Bhd and Erinco Sdn. Bhd.

THE FACILITATORS



Ir. Mohmad Asari
MIEM, PEPC

Ir. Mohmad Asari obtained a B.Eng. in Civil Engineering (1984) from UTM, an M.Sc in Operations and Supply Chain Management (2014) from University of Liverpool and PhD in Environmental Engineering (2020) from UTM. He has been in the water industry for over 32 years. He also a Commissioner for Suruhanjaya Perkhidmatan Air Negara (SPAN) from 2020 to present.

Currently served Hajara Consultant Sdn Bhd (Engineering consultancy) as a Director/Principal from 2012 to date, he is responsible for the operation and performance of the company. Among the contracts executed are:

1. Study of Sungai Linggiu Dam Storage and Sungai Johore Barrage Operation (for KeTTHA and MEWR, Singapore) – RM0.5m (study only)
2. Design and Supervision of Water Supply to Orang Asli Villages in Pahang – RM50.0m
3. Project Supervision of Holistic Approach of NRW Reduction for KeTTHA – RM9.0m
4. Feasibility, Design and Supervision of Kinabenua Intake System – RM5.0m
5. Advisory on planning and monitoring of the operations of Sungai Selangor Dam, Sungai Tinggi Dam, Sungai Semenyih Dam and Sungai Langat Dam – RM0.2m (study only)
6. Assessment and Safety Monitoring of Putrajaya Dam, Putrajaya – RM0.2m (study only), etc