

INNOVACIA TRAINING CALENDAR 2020



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Since 2007, starting as Malaysia's first private IBS training provider, we offer **innovative courses and facilitators with hands-on** experience in policy, design, manufacturing, construction, soft skills and entrepreneurship.

Save Cost, Increase Your Productivity with our training.

IBS/BIM IR4.0/BIG DATA PROJECTMGT/VISUALCOMM

The Modules

IBS11 (2 days)

Making Construction Green with IBS & Other IR4.0 Solutions

Menjadikan Pembinaan Hijau melalui IBS dan Penyelesaian IR4.0

IBS11 is the compact version of the IBS01 Professional Module and contains almost similar topics as the latter. In addition to **Industrialised Building System (IBS) or prefabrication, Modular Coordination (MC) and IBS Score**, focus is also given in highlighting the green benefits of off-site construction. The various IR4.0 solutions such as **Building Information Modelling (BIM), beacon-based IoT systems, VR/AR in construction**, among many others are also presented. **This compact 2-day training is suitable for developers, government departments, consultants, contractors, manufacturers, transporters/lifters and others with technical involvement in construction. NEW MODULE.**

IBS03 (1 day)

IBS Technology Selection for Clients-Developers and Project Personnel

Pemilihan Teknologi IBS untuk Klien-Pemaju dan Personel Projek

Covid-19 and the recent announcement on compulsory usage of IBS in private projects brings greater demand for IBS systems particularly precast concrete solutions. **Selecting the suitable technology and approach in executing IBS projects is important in ensuring the best return on investment to the client. How do you start?** This one-day course provides information on IBS, IBS Score and related government policies. It covers the **various aspects of precast concrete from different structural systems, basic precast building elements, connections, accessories and case studies** on the design concept for various types of buildings.

Selection of various solutions and related technologies will be discussed covering manufacturing (factory/site casting), logistic & delivery, erection, quality & safety. Sharing of future (towards IR4.0) trends of construction including volumetric modules (PPVC/PBU), BIM and robotics. Challenges in using precast concrete solutions and the topic of mindset change will also be covered in this training. An essential training for **decision makers, financiers, managers, planners, architects, engineers, project personnel and researchers** who are working for government clients/private developers and project teams. **NEW MODULE.**

IBS04 (1 day)

IBS Shop Drawings Using CAD/BIM

Lukisan Kerja IBS Menggunakan CAD/BIM

A major component in successful IBS projects is the production of shop drawings. It covers the process of **creating good IBS shop drawings** using CAD/BIM software; covering **all important items** to be included in shop drawings for proper IBS project execution. Please bring your own computer. Free 28-day trial CAD/BIM software will be provided. **Suitable for everyone using and producing shop drawings.**

IBS05 (1 day)

IBS Score Submission Using BIM

Serahan Skor IBS Menggunakan BIM

CIS 18: 2018 provides up to **6 IBS Score points for any submission that is using BIM model**. This training is for **IBS Score calculation and submission based on BIM software**. Also, incorporating possible links to database, project management portal and mobile apps. Please bring your own computer. Free 30-day trial software will be provided. **For all involved in IBS Score calculations and submissions. Knowledge in CIS 18: 2018 is pre-requisite. NEW MODULE.**

BIM01 (3 days)

Building Information Modelling (BIM) Made Simple

Pemodelan Maklumat Bangunan (BIM) Dipermudah

BIM is a major **IR4.0** solution and it helps to improve and transform the traditional processes in construction projects and manufactured products. Usage of 3-d CAD models with information promotes **productivity and quality** in construction. **BIM concept and theory** as well as discussions on the **benefits, opportunities** and linkage with other major Malaysian and regional IR4.0 initiatives such as **IBS** will be covered. It is followed with **hands-on architectural, structural, mechanical and electrical** vertical applications. **Project collaboration and coordination** will be explored, including clash analysis, as well as costing. The training is concluded with a theory and practical test. Please bring your own computer. Free 28-day trial CAD/BIM software will be provided. **An affordable and a generic BIM training for all.**

Note: We are also able to deliver customised BIM training based on demand by clients, either using TiffinBIM or Revit.

IR401 (1 day)

Data Prediction and Its Benefits

Ramalan Data dan Kelebihannya

In this IR4.0 era, public and private organisations that possess and able **to effectively use their data** will have the **extra edge if compared to the competitors**. **This is an introductory training** to the importance and application of data prediction in our daily work, be it marketing, promotion, sales, bidding and project execution. Various methods and software will be introduced in this theory session for your industry application. **This module is developed for all, including staffs and heads of departments and organisations that are interested in data prediction. NEW MODULE.**

IR402 (1 day)

Using MATLAB for Data Prediction

Ramalan Data Menggunakan MATLAB

This hands-on course teaches participants on how Artificial Neural Network (ANN) works on predicting the required outputs from certain datasets. Using **MATLAB software**, the **data collection, data normalisation and eventually the output prediction** can be carried out by training and validating the dataset. By modifying the ANN architecture configurations, learning algorithm, ANN training options and parameters, participants will have the know-how on increasing the output prediction accuracy. Participant will also learn on how to set the percentage of training and validation data to increase the output accuracy. Please bring your own computer. Free 30-day trial MATLAB software will be provided. **An essential training for engineers, analysts, researchers, lecturers and others interested in data prediction. NEW MODULE.**

IR403 (1 day)

Using Open Source GNU Octave for Engineering Numerical Computations

Pengiraan Berangka untuk Kejuruteraan Menggunakan Sumber Terbuka GNU Octave

This 1-day teaches participants on the usage of an open source software, GNU Octave, in performing basic

numerical computations for engineering purposes. The participants will be exposed to and experience in using the free alternative to MATLAB. Apart from its structured programming language features, GNU Octave possesses commands interfacing to solve nonlinear and linear numeric problems. The software is also very handy in creating powerful data plots, graphs and charts for numerical data presentations. **An essential training for manufacturers, service providers, researchers, lecturers, and others interested in engineering numerical computations. NEW MODULE.**

PM01 (2 days)

Practical Project Management Workshop *Bengkel Pengurusan Projek Praktikal*

This hands-on program is focused in providing **practical project management skills** to working professionals who are keen to learn and gain in depth knowledge on professional project management practices. The sessions are enhanced with interesting **gamifications and designed to have workshop exercises with industry case studies**. Topics include Managing Project Stakeholders, Threats and Opportunities: Identification, Assessment and Response, Assimilation of P.M Knowledge Areas, Effective Communication and Project Management Office Framework and Strategies. **Suitable for everyone involved in Project Management from various industries. NEW MODULE.**

PM02 (1 day)

Fundamental Methods for Quality Management *Kaedah Asas untuk Pengurusan Kualiti*

The intent of this course is to give participants **insight of the quality management system**. It also introduces the concept of process management and project management and highlights methodology of business process improvement for organizations. Covering Quality Management System, Quality Management Process and Approach, Quality Assurance and Control, Quality Management Tools, Quality Circle, ISO 9001:2015 Quality Management System, Business Process Improvement and Six Sigma - A Quality Management Approach. **Suitable for everyone involved in Project Management from various industries. NEW MODULE.**

PM03 (2 days)

Effective Project Scheduling Techniques and Cost Management *Teknik Penjadualan Projek dan Pengurusan Kos Berkesan*

This course aims to impart **basic knowledge of planning and scheduling projects**. Participants will learn concepts of project management and its implication on construction projects. An introduction to EVMS and Project Monitoring and control will be an added advantage to this program. The second part of this training covers knowledge about pre and post-construction cost control and monitoring. Students will be imparted awareness about life cycle costing and value engineering. **Suitable for everyone involved in Project Management from various industries. NEW MODULE.**

VC01 (2 days)

Visual Communication for Higher Productivity and Profits *Komunikasi Visual untuk Peningkatan Produktiviti dan Keuntungan*

Visual communication skills are crucial for the 21st century effective and productive workforce. This course will cover the **fundamental tools in acquiring freehand visual communication skills for individuals and organisations; towards better productivity and profits. Many ideas failed to be relayed effectively due to inability to master the visual communication skills**; being an integral item in the Thinking-Communication-Implementation process. From relaying design intent from client to consultant, request from marketing to product design, reporting discrepancies from site to design office, translating shop drawings from manufacturing supervisor to factory workers; it is important that the relayed message is **correct 100% without miscommunication. This is a general training for both industry professionals and students. NEW MODULE.**

Objectives/Benefits of Training

1. Gaining information on latest and trending topics from an established training provider;
2. Sharing of experience among fellow participants and our subject matter experts (SMEs); and
3. Business networking among the best brains in the industry.

Our Facilitators

Ir. Shahrul Nizar Shaari has 23 years of experience in construction tech at manufacturer/contractor and government level. Founder of Innovacia, a MATRADE member and an established research, training and ICT set-up; and brand owner of Axdea (IBS Score calc), TiffinBIM, Innovacia Mobile, Innovacia VR/AR, Innovacia Info-Feeder and binaTECH. Active in various CIDB-lead IBS committees.

Abu Saffian Abu Bakar has 33 years of progressive management work experience. Former Senior Vice President at Agensi Inovasi Malaysia. Prior to AIM, he worked at Iskandar Investment, ACPI and IJM. With vast experience in IBS, business development, project management, property development, manufacturing, sales & marketing and quality management systems.

Ir. Ng Kok Peng is a Fellow of the IEM, a Professional Engineer with Practising Certificate registered with BEM, a Corporate Member of the ICE, UK and a Chartered Engineer registered with the Engineering Council, UK. He is a keen advocator on the use of mechanisation and technology to improve efficiency and productivity in construction. With experience in Malaysia and Singapore, Ir. Ng is now leading IBS Technology Solutions Sdn Bhd, an IBS advisory service provider.

Ir. Rajendara Kumar Rasu is a precast concrete specialist with experience at top local and multinational engineering consultancy firms; and currently with Gamuda Land. His current specialisation now include implementation of IBS Design Concept for covering standardisation philosophy, R&D and Value Engineering (VE). He is familiar with design and CAD/BIM tools including StaadPro, AutoCAD, Revit & others.

Mohd Ezazli Anas is a co-founder of Innovacia Mobile; providing mobile app development services and training. Runners-up winner of Hong Kong Appsanity Award 2012 with the Distance Estimator mobile app. Main developer of apps available on Google Play under Innovacia Mobile store. Co-owner of Axdea – the BIM-based IBS Score calculator and the IoT information system, Innovacia Info-Feeder.

Syahrul Fithry Senin has 16 years of experience in academics fields majoring in Structural Engineering at UiTM Pulau Pinang. He started his career by involving in structural and civil engineering consultants for Kesh Consult Sdn. Bhd and Perunding Zar Sdn. Bhd from 1997 to 1999. He is actively involved using ANN model predictions in his academic seminars, Deep Tech and Big Data consultancy and in research innovation works.

Dr. Ruzaimi Mat Rani is the founder of Drawzania.com, a simply affordable yet innovative platform in learning freehand visualisation. He has an architectural background and an active writer who has produced over 15 books at international level related to visual communication and sketching process. He is also the founder of miandza Youtube channel.

Dr. Ahmad Tarmizi Haron is well-known BIM expert in Malaysia and provides consultancy and training services through UMP Holdings. Dr Tarmizi is the founder of the UMP MyBIM Satellite Centre for East Coast and also serves as a Subject Matter Expert (BIM) for the Construction Industry Transformation Program (CITP). He is a full time Senior Lecturer at the Faculty of Civil Engineering, UMP.

	2020					
	Jul	Aug	Sep	Oct	Nov	Dec
IBS11	6-7 21-22 (SA)	11-12 25-26 (SA)	8-9 22-23 (SA)	6-7 20-21 (SA)	25-26 (SA)	8-9 22-23 (SA)
IBS03			28 (PJ)			
BIM01				30/9-2/10 (SA)		14-18 (SA)
IR403				17 (PJ)		19 (PJ)

IBS04, IBS05, IR401 & IR402 will start in 2021. VC01 and PM01-03 will be based on request

SA: Innovacia, Shah Alam / PJ: Armada Hotel, Petaling Jaya

Time: 900am – 400pm

Notes, Certificate, CCD Points (tba): Provided

- In addition to these topics, we also run CIDB PLBK training for contractors (IBS topics (Precast Panel, Beams/Columns, Steel Structures and Blocks).
- Customised training / additional dates anywhere in Malaysia are possible.
- We also offer self-learning online training at binatech.teachable.com
- Please contact us at 012-3058086 / innovacia.sfi@gmail.com / info@innovacia.com.my

Training Fees

Module	Fees/pax (RM)	Module	Fees/pax (RM)
IBS11	400	IR401	388
IBS03	988	IR402	588
IBS04	588	IR403	988
IBS05	588	PM01	1,888
BIM01	1,188	PM02	988
VC01	2,488	PM03	1,888

Innovacia is a HRDF Training Provider and fees are claimable from HRDF. Please refer to your Training Manager for guides.

Training Registration Form



Please provide all details and send the completed form and proof of payment to innovacia.sfi@gmail.com / 012-305 8086. Registration Dateline: 2 weeks before each event. Thank you and enjoy the training!

Module: _____ Training Date: _____

No	Name of Participant	Designation	Academic Qualifications	Years Technically Involved in Building Construction	Mobile Phone No.	Email
1						
2						
3						

Total = RM _____ / pax x _____ nos. of pax = RM _____. Attached is the proof of payment to CIMB Islamic Acc No: 8600 22 9695 Innovacia Sdn Bhd.

Contact Person Name: _____ Company: _____

Hphone: _____ Email: _____ Address: _____

About Innovacia Sdn Bhd – CIDB & HRDF Registered Training Provider IBSxBIM

Innovacia specialises in Prefabricated Construction Technology (Industrialised Building Systems, IBS), Building Information Modelling (BIM), Big Data and other IR4.0 solutions for Construction, Manufacturing and Professional Services.

In supporting you, we offer:

1. Training: Modules include for the topics of IBS, BIM, IR4.0, Project Management and Visual Communication.
2. Research: Construction & Prefab / IBS Advisory (Product & Project Technical Assessment, Industry Research, Training Module Development), Customised Software Development
3. Publications: binaTECH – Construction Technology & Living Trends Magazine, Customised Publications
4. ICT Solutions: TiffinBIM - Affordable CAD/BIM Software, axdea (BIM-based IBS Score Calculator), Innovacia Mobile (Construction & Other Productivity Apps), Innovacia VR/AR (Virtual & Augmented Reality Solutions) and Innovacia Info-Feeder (IoT information system).

FOR EVENT ENQUIRIES:

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Google Play Store: [Innovacia Mobile](#)