



CHARLESMANN
SOLUTIONS

INTERNET OF THINGS (IOT) SPECIALIST

Instructor-Led
Comprehensive Internet of
Things Program

Two Day Training Course



Charles Mann Solutions Sdn Bhd (825915-W)
10 Jalan USJ 3/1e, UEP Subang Jaya, Selangor 47600, Malaysia
Tel: +60 10 425 0886 | Email: info@charlesmann.com.my
www.charlesmann.com.my



Course Outline

IoT (the Internet of Things) is by far one of the most important developments of the 21st century and it will continue to lead to drastic changes in the future. The internet of things refers to a network of physical devices, vehicles, home appliances and all other items that are used together with technology such as actuators, electronics, sensors, software and connectivity to enhance connection, collection and data exchange. The IoT also creates vast opportunities for people to connect these devices and control them with big data technology.

The impact of this results in an efficiency in performance along with economic benefits and a general minimising of the need for human involvement and effort. Many industries utilise the Internet of Things technology to monitor activities and advance their existing systems. The IoT has taken over traditional manual systems of running businesses as it now plays the important role of managing the internal processes and operations giving high convenience for each task. In the near future, the world is set to be completely IoT oriented. Our comprehensive course covers the fundamental concepts of IoT as well as practical hands-on exercises that embed understanding with attendees.

The training course lasts two full days, with each day starting at 9.30am until 5.00pm, and is inclusive of course materials, certificate, lunch, refreshments and snacks, along with complimentary four week post course support and assistance. A wi-fi enabled laptop (not iPad or tablet) is required for this course along with a basic understanding of ICT and the internet.

Course Benefits

Following this course, you will understand:

- The core concepts of IoT (Internet of Things)
- The role and scope of actuators and sensors
- The concept of convergence of technologies and practices
- Wireless sensor networks, machine learning, data analytics and cloud computing
- Hardware platforms and operating systems
- Understand big data and transformation from IT to IOT
- IoT security and opportunities



Who Should Attend

- Business Owners
- IT Executives & Managers
- Project Managers
- Technology Planners
- Technology Consultants
- IT Specialists
- Cloud Operations Engineers
- Data Analysts
- Business Development Managers
- Digital Strategists

Course Programme

Day One:

- Introduction and Overview of IoT
- Concepts and definitions of The Internet of Things (IoT)
- History of IoT
- Applications of IoT
- IoT standards
- Requirements
- Functionalists and structure
- What is the Structure of IoT?
- Overview of IoT Connectivity Methods
- Basic Electronics

Day Two:

- IoT enabling technologies
- IoT architecture
- Major components of IoT
- Hardware, sensors, systems-on-a-chip
- Firmware, device drivers, application software
- Connectivity, cloud and security
- Role of wired and wireless communication
- IoT communication and networking protocols
- IoT services and applications



Course Trainer

Mohamad Ariffin Zulkifli

Ariffin has over 7 years working experience related to Internet of Things (IoT) system research and development, since 2015. He is focused on technology research and development, self development, continuous improvement and teaching. His interest in electronics started at SM Teknik Pontian, enrolling in Pengajian Kejuruteraan Elektrik dan Elektronik (A1 in SPM).

Interest in information technology (IT) began at Kolej Matrikulasi Johor, in the sub-subject of Computer Science, enforcing the skills Ariffin would later train on. He has been actively conducting IoT training since 2015 and has taught more than 2000 participants, from various technology fields and backgrounds, including government agencies and SMEs.

He is also actively involved in IoT projects consultation, implementation and research & development. He has delivered over 25 IoT and Ai related projects and consultations. His aspiration is to help more Malaysians understand how technologies such as IoT can benefit their work, business and lifestyle.

Registration Form



INTERNET OF THINGS (IOT) SPECIALIST Instructor-Led Comprehensive Internet of Things Program

COURSE FEES: RM2,900 per delegate



Charles Mann is an approved training provider and registered with Pembangunan Sumber Manusia Berhad (PSMB). All our courses are claimable through the HRDF scheme. Please contact us for details.

DATE:	
COMPANY / ORGANISATION:	
FULL ADDRESS:	
AUTHORISED BY / JOB TITLE:	
CONTACT NUMBER:	
EMAIL ADDRESS:	
WEBSITE:	

- SELECT DATE:**
- | | | |
|--|--|--|
| <input type="checkbox"/> 6th to 7th Jan 2025 | <input type="checkbox"/> 5th to 6th May 2025 | <input type="checkbox"/> 8nd to 9th Sep 2025 |
| <input type="checkbox"/> 3rd to 4th Feb 2025 | <input type="checkbox"/> 16th to 17th Jun 2025 | <input type="checkbox"/> 6th to 7th Oct 2025 |
| <input type="checkbox"/> 3rd to 4th Mar 2025 | <input type="checkbox"/> 7th to 8th Jul 2025 | <input type="checkbox"/> 3rd to 4th Nov 2025 |
| <input type="checkbox"/> 7th to 8th Apr 2025 | <input type="checkbox"/> 4th to 5th Aug 2025 | <input type="checkbox"/> 1st to 2nd Dec 2025 |

	FULL NAME	JOB TITLE	EMAIL
ATTENDEE 1:			
ATTENDEE 2:			
ATTENDEE 3:			

If registering 3 or more attendees, please contact us for bulk discounts or to arrange in-house training. Course dates can be found on our website along with venues. Dates and/or venues can change due to unforeseen circumstances. For Early Bird rates, full payment must be made one week prior to course date.

Please print and email this form to: info@charlesmann.com.my or call us on **010 425 0886**

Alternatively, please post to: 10 Jalan USJ 3/1e, UEP Subang Jaya, Selangor 47600

Payment can be made direct into our CIMB account:

CIMB Bank, Account No. 8002037568

Charles Mann Solutions Sdn Bhd



Charles Mann Solutions is proud to be a Google Partner