MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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THE INTERNET OF THINGS (IOT) IN DEFENSE

"Leveraging Connected Technologies for Enhanced Military Capability, Security, and Operational Intelligence"

Schedule

Date	Venue	Fees (Face-to-Face)
07 – 11 Dec 2026	London - UK	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

The defense sector is undergoing a digital transformation powered by the Internet of Things (IoT). From smart weapon systems and battlefield sensors to secure communication platforms and logistics tracking, IoT is reshaping how defense forces operate, respond, and protect national interests. Integrating IoT into military operations enhances situational awareness, asset monitoring, predictive maintenance, and threat detection.

This intensive 5-day training course provides defense personnel, system integrators, and IT leaders with practical insights into deploying and managing IoT technologies in defense environments. Participants will explore defense-specific IoT architectures, cybersecurity protocols, and real-world applications that are advancing military readiness and operational effectiveness.

Objectives

By the end of this course, participants will be able to:

- Understand IoT frameworks and architectures relevant to defense applications
- Design and implement secure, mission-critical IoT systems
- Integrate sensors, devices, and platforms for situational awareness and logistics
- Manage data streams from connected defense assets in real-time
- Address cybersecurity, resilience, and interoperability in defense IoT ecosystems

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Why Attend

- To modernize defense capabilities through secure IoT integration
- To improve intelligence gathering, mission planning, and resource deployment
- To reduce maintenance costs through predictive analytics and asset tracking
- To support real-time decision-making and remote monitoring in the field
- To ensure cybersecurity, resilience, and scalability of IoT deployments in sensitive environments

Target Audience

This program is designed for:

- Defense personnel involved in IT, operations, logistics, and intelligence
- Military systems architects and project engineers
- Defense contractors and technology vendors
- Cybersecurity and communication specialists in the armed forces
- Government officials involved in defense digital transformation initiatives

Individual Benefits

Key competencies that will be developed include:

- Understanding IoT applications in military and tactical contexts
- Integration of IoT with Command, Control, Communications, and Intelligence (C3I) systems
- Device and sensor deployment in field and base environments
- Threat modeling and risk mitigation for defense IoT networks
- Interoperability planning across land, sea, air, and space assets

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced real-time visibility into mission-critical assets
- Stronger protection of sensitive data and communication systems
- Streamlined logistics, supply chain, and maintenance operations
- Increased operational efficiency and readiness across defense units
- Alignment with national defense modernization and digital defense strategies

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings: Defense IoT architecture, mission scenarios, and use cases
- Case Studies: Tactical and strategic deployment of IoT in global defense programs
- Workshops: Designing IoT solutions for field logistics, surveillance, and maintenance
- Peer Exchange: Lessons learned from international defense digitization efforts
- Tools: Deployment blueprints, threat models, and system integration templates

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Course Outline

Detailed 5-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Foundations of IoT in Defense

- Module 1: Introduction to IoT in Military Contexts (07:30 – 09:30) • Overview of IoT in battlefield, base, and strategic operations
- Module 2: IoT Architecture for Defense Applications (09:45 – 11:15) • Sensor networks, edge computing, and cloud-military interfaces
- Module 3: Workshop – Mapping IoT Use Cases Across Defense Functions (11:30 – 01:00) • Surveillance, logistics, maintenance, and communication
- Module 4: IT/OT Integration and Mission Readiness (02:00 – 03:30) • Bridging operations with digital platforms

Day 2: Device Networks, Sensors, and Data Management

- Module 5: Tactical and Strategic Sensor Deployment (07:30 – 09:30) • Environmental, motion, biometric, and surveillance sensors
- Module 6: Managing Real-Time Military Data Streams (09:45 – 11:15) • Data ingestion, fusion, and visualization for command decisions
- Module 7: Workshop – Designing a Defense IoT System Architecture (11:30 – 01:00) • Integration with ISR platforms and decision support systems
- Module 8: IoT Device Communication and Encryption (02:00 – 03:30) • Wireless protocols and secure data transmission

Day 3: Cybersecurity and Resilience in Defense IoT

- Module 9: Threats to Military IoT Systems (07:30 – 09:30) • Hacking, spoofing, jamming, and denial-of-service risks
- Module 10: Hardening IoT Networks and Devices (09:45 – 11:15) • Authentication, zero trust, and endpoint protection
- Module 11: Workshop – Developing an IoT Cyber Risk Mitigation Plan (11:30 – 01:00) • Simulation of a security incident and response plan
- Module 12: Interoperability and NATO Standards (02:00 – 03:30) • Ensuring compatibility across multinational operations

Day 4: IoT for Maintenance, Logistics, and Operational Support

- Module 13: Predictive Maintenance for Military Equipment (07:30 – 09:30) • IoT sensors for engines, weapons, and infrastructure
- Module 14: Supply Chain and Inventory Tracking (09:45 – 11:15) • Real-time location tracking and status updates
- Module 15: Workshop – Designing an IoT-Based Logistics System (11:30 – 01:00) • From warehouse to deployment zone visibility
- Module 16: Use of Drones and Autonomous IoT Platforms (02:00 – 03:30) • UAVs, ground vehicles, and AI integration

Day 5: Strategic Planning and Implementation

- Module 17: Roadmapping Defense IoT Deployment (07:30 – 09:30) • Project planning, budget considerations, and pilot testing
- Module 18: Evaluating IoT ROI and Strategic Value (09:45 – 11:15) • Performance metrics, readiness indicators, and feedback loops
- Module 19: Workshop – Final Presentation: Defense IoT Integration Plan (11:30 – 01:00) • Group-based planning and solution presentation
- Module 20: Wrap-Up and Certification (02:00 – 03:30) • Final Q&A, feedback session, and next steps

Certification

Participants will receive a Certificate of Completion in The Internet of Things (IoT) in Defense, validating their knowledge and skills in applying IoT to support operational, logistical, and strategic defense objectives.

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Why Choose MAWA Events

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In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**