MAWA EVENTS

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

Phone: +601116373203 | **Email:** info@mawaevents.net

MEDICAL TECHNOLOGIES - ARTIFICIAL INTELLIGENCE (AI) & MEDICAL ROBOTS

"Harnessing AI and Robotics to Revolutionize Modern Healthcare"

Schedule

Date	Venue	Fees
18 – 22 May 2026	Dubai, UAE	USD 3495 per delegate

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

Introduction

Artificial Intelligence and robotics are no longer futuristic tools—they are reshaping how healthcare is delivered, diagnosed, and managed. From robotic surgeries to AI-powered diagnostics and virtual care assistants, medical technologies are advancing precision, accessibility, and patient outcomes.

This 5-day course provides healthcare professionals and administrators with a comprehensive understanding of cutting-edge medical technologies. Participants will explore the latest AI applications in diagnostics and treatment, gain insights into robotic systems in surgery and rehabilitation, and examine regulatory, ethical, and implementation challenges.

Objectives

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

- Understand AI technologies and their applications in diagnostics and treatment
- Evaluate the design and capabilities of current medical robotics systems
- Assess the impact of AI and robotics on clinical workflows and patient outcomes
- Identify implementation challenges, including data privacy and regulation
- Explore future trends in smart hospitals, telemedicine, and predictive analytics

MAWA EVENTS

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

Phone: +601116373203 | **Email:** info@mawaevents.net

Why Attend

- Gain critical knowledge of emerging healthcare innovations
- Understand how AI and robotics improve care delivery and operational efficiency
- Explore real-world use cases of AI in diagnosis, triage, and patient monitoring
- Prepare for digital transformation in hospitals and healthcare systems
- Enhance your organization’s readiness for technology-driven healthcare models

Target Audience

This program is designed for:

- Healthcare administrators and medical directors
- Clinical and biomedical engineers
- IT professionals in healthcare institutions
- Medical practitioners and hospital decision-makers
- Policy-makers and consultants in health technology innovation

Individual Benefits

Key competencies that will be developed include:

- Understanding of AI models and robotic systems in healthcare
- Ability to critically assess the value and risks of new medical technologies
- Knowledge of digital transformation strategies in clinical settings
- Familiarity with data-driven decision-making in patient care
- Skills in evaluating ethical, legal, and regulatory implications of medical A

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved decision-making for adopting and integrating medical AI/robotic systems
- Enhanced innovation readiness within the healthcare facility
- Greater compliance with data protection and healthcare technology regulations
- Optimized patient care through technology-enhanced practices
- Leadership in digital transformation and smart hospital initiatives

Instructional Methodology

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

- Strategy Briefings – AI frameworks, robotics systems, and healthcare trends
- Case Studies – AI-driven diagnostics, robotic surgeries, virtual assistants
- Workshops – Designing implementation roadmaps for smart technologies
- Peer Exchange – Hospital innovation benchmarking and tech readiness
- Tools – AI models, decision matrices, risk frameworks, and ethical toolkits

MAWA EVENTS

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

Phone: +601116373203 | **Email:** info@mawaevents.net

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 AI and Robotics in Healthcare

- Module 1: Introduction to Medical AI & Robotics (07:30 – 09:30) • Defining AI, machine learning, and robotics in healthcare context • Evolution and landscape of health technology adoption
- Module 2: Core Technologies and Algorithms (09:45 – 11:15) • Neural networks, computer vision, NLP, and surgical robotics • Hardware and software infrastructure requirements
- Module 3: Regulatory & Ethical Frameworks (11:30 – 01:00) • Patient privacy (GDPR, HIPAA), algorithmic bias, informed consent
- Module 4: Workshop – Identify Use Cases (02:00 – 03:30) • Mapping AI and robotics to your institution's clinical needs

Day 2: AI Applications in Diagnostics & Patient Monitoring

- Module 5: AI in Medical Imaging and Diagnostics (07:30 – 09:30) • Cancer screening, radiology AI, pathology applications
- Module 6: Predictive Analytics & Early Warning Systems (09:45 – 11:15) • Risk scoring, sepsis detection, and patient deterioration alerts
- Module 7: Virtual Health Assistants and NLP in Care (11:30 – 01:00) • Chatbots, voice assistants, and decision support systems
- Module 8: Workshop – Evaluate Diagnostic AI Tools (02:00 – 03:30) • Hands-on with real datasets and AI platforms

Day 3: Medical Robotics – Applications and Design

- Module 9: Robotic Surgery and Automation (07:30 – 09:30) • Minimally invasive surgery systems (e.g., Da Vinci) • Setup, control, and capabilities
- Module 10: Rehabilitation and Assistive Robots (09:45 – 11:15) • Exoskeletons, prosthetics, mobility aids
- Module 11: Pharmacy and Logistics Robots (11:30 – 01:00) • Automated drug dispensing, delivery bots, sanitation robotics
- Module 12: Workshop – Assessing Robotic Systems (02:00 – 03:30) • Cost-benefit and implementation readiness assessments

Day 4: Implementation and Operational Integration

- Module 13: Digital Hospital Infrastructure (07:30 – 09:30) • IoT, 5G, cloud systems, EHR integration for AI use
- Module 14: Workforce Transformation & Training (09:45 – 11:15) • Preparing staff for AI/robot use, change management
- Module 15: Procurement and Vendor Selection (11:30 – 01:00) • Tech evaluation, contract structuring, vendor partnerships
- Module 16: Workshop – Build Your Technology Roadmap (02:00 – 03:30) • Step-by-step action plan for AI/robot implementation

Day 5: Strategy, Innovation & Future Trends

- Module 17: Global Trends in Medical AI & Robotics (07:30 – 09:30) • What's next: precision health, wearable diagnostics, nanorobots
- Module 18: Business Models and ROI Measurement (09:45 – 11:15) • Value creation, cost reduction, patient outcome metrics
- Module 19: Risk Mitigation & Cybersecurity in Smart Systems (11:30 – 01:00) • Protecting health data and device security protocols
- Module 20: Final Workshop – Innovation Strategy Simulation (02:00 – 03:30) • Group simulation of AI/robot deployment plan in a hospital setting

Certification

Participants will receive a Certificate of Completion in Medical Technologies – Artificial Intelligence (AI) & Medical Robots, validating their knowledge of healthcare innovation, and readiness to lead or support AI/robotics integration in clinical environments.

MAWA EVENTS

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

Phone: +601116373203 | **Email:** info@mawaevents.net

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation's unique goals.

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