MAWA EVENTS

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

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MEDICAL TECHNOLOGIES – DIGITAL HEALTH & WEARABLE TECHNOLOGY

"Harnessing Innovation to Transform Patient Care and Health Systems"

Schedule

Date	Venue	Fees
03 – 07 Aug 2026	Dubai, UAE	USD 3495 per delegate

Introduction

Digital health and wearable technology are revolutionizing how healthcare is delivered, monitored, and managed. These innovations are not only enhancing clinical outcomes but also improving patient engagement and reducing operational costs.

This intensive 5-day course explores the evolving landscape of medical technology, focusing on digital health platforms, AI-driven diagnostics, and wearable biosensors. Participants will examine real-world applications, regulatory considerations, and implementation strategies essential for driving tech-enabled transformation across healthcare systems.

Objectives

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

- Evaluate the landscape of digital health innovations and their clinical applications
- Understand key wearable health technologies and biosensor capabilities
- Assess the role of AI and big data in predictive diagnostics and remote care
- Examine data governance, privacy, and cybersecurity in digital health
- Design implementation plans for integrating digital health into clinical practice

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Why Attend

- Gain a clear understanding of emerging medical technologies and market trends
- Learn how to integrate wearables and digital platforms into health service delivery
- Explore regulatory frameworks, data standards, and patient consent challenges
- Review case studies from hospitals, home care, and telehealth environments
- Enhance your strategic and operational capability in digital transformation

Target Audience

This program is designed for:

- Healthcare administrators and clinical directors
- Hospital IT managers and medical technology planners
- Public and private sector health strategists
- Health innovation officers and program implementers
- Policy makers, regulators, and medtech entrepreneurs

Individual Benefits

Key competencies that will be developed include:

- Technology evaluation and vendor assessment skills
- Knowledge of biosensors, remote monitoring, and mobile health tools
- Understanding of digital health integration in chronic care and prevention
- Ability to assess clinical and economic impact of medtech deployment
- Strategic insight into digital health policies and standards

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved planning and adoption of digital and wearable health solutions
- Enhanced capacity to monitor and manage patient care remotely
- Compliance with digital health governance and data protection laws
- Strengthened innovation strategy within healthcare delivery systems
- Reduction in service delivery gaps through tech-enabled models

Instructional Methodology

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

- Expert Briefings – Tech trends, AI-enabled healthcare, and industry insights
- Case Studies – Implementation of wearables and platforms in healthcare
- Workshops – Solution design, ROI modeling, and deployment planning
- Peer Exchange – Success stories, challenges, and local context adaptation
- Toolkits – Health IT assessment guides, regulatory checklists, and vendor scorecards

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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 Digital Health Ecosystems

- Module 1: Introduction to Digital Health and MedTech (07:30 – 09:30) • Evolution of medical technology and its impact on care delivery • Scope of digital health – tools, platforms, and services • Stakeholders and value chain in healthcare innovation
- Module 2: Telehealth and Virtual Care Platforms (09:45 – 11:15) • Models of remote consultation and follow-up care • Platform selection and user experience design • Limitations and adoption barriers
- Module 3: Health Informatics and Interoperability (11:30 – 01:00) • EHR integration, data standards (FHIR, HL7) • Clinical decision support systems • Challenges in achieving interoperability
- Module 4: Workshop – Mapping Your Digital Health Landscape (02:00 – 03:30) • Gap assessment and opportunity identification

Day 2: Wearable Technology and Biosensing

- Module 5: Overview of Wearable Medical Devices (07:30 – 09:30) • Fitness trackers, ECG patches, glucose monitors, smartwatches • Medical-grade vs consumer-grade wearables • Use cases in chronic care, elder care, and preventive health
- Module 6: Biosensors and Continuous Monitoring (09:45 – 11:15) • Heart rate, SpO2, glucose, sleep, hydration sensors • Accuracy, battery life, data synchronization • Clinical use and reimbursement models
- Module 7: Patient Engagement and Behavior Analytics (11:30 – 01:00) • Feedback loops and coaching apps • Gamification, reminders, and behavioral nudges • Equity, usability, and digital literacy
- Module 8: Workshop – Evaluate and Compare Wearables (02:00 – 03:30) • Side-by-side feature matrix and selection criteria

Day 3: Data Management, Privacy & AI Integration

- Module 9: Health Data Lifecycle and Analytics (07:30 – 09:30) • Data sources, pipelines, and governance • Big data frameworks in healthcare • Data quality and bias mitigation
- Module 10: Cybersecurity and Patient Privacy (09:45 – 11:15) • HIPAA, GDPR, and global health data laws • Consent management and access control • Cyber threats and security controls
- Module 11: AI & Machine Learning in Healthcare (11:30 – 01:00) • Predictive models, triage systems, and diagnostic tools • Model training, validation, and explainability • Integration challenges and clinician trust
- Module 12: Workshop – AI Use Case Risk Assessment (02:00 – 03:30) • Review risks, benefits, and ethical concerns

Day 4: Strategy, Regulation, and Implementation

- Module 13: Regulatory Landscape and Standards (07:30 – 09:30) • Device classification, certification, and approvals • Regulatory authorities (FDA, EMA, MDR) • Cybersecurity labeling and clinical trial data
- Module 14: Health Technology Assessment (HTA) & ROI (09:45 – 11:15) • Cost-effectiveness, quality-adjusted life years (QALY) • Technology lifecycle management • Pilot project design and scale-up decisions
- Module 15: Stakeholder Engagement and Change Management (11:30 – 01:00) • Clinician buy-in and workflow integration • Training and patient education • Cultural and generational considerations
- Module 16: Workshop – Develop an Implementation Roadmap (02:00 – 03:30) • Define vision, milestones, metrics, and risks

Day 5: The Future of Connected Health

- Module 17: Personalized & Predictive Healthcare Models (07:30 – 09:30) • Genomics, digital twins, and precision care • Predictive alerts and preventive pathways • Patient-centric data ecosystems
- Module 18: Emerging Trends in Wearables and Remote Diagnostics (09:45 – 11:15) • Digital stethoscopes, AI-powered dermoscopy, portable ultrasound • Integration into primary and community care
- Module 19: Final Case Study – Building a Smart Clinic (11:30 – 01:00) • Role of devices, platforms, analytics, and people • Design thinking and innovation teams

- Module 20: Wrap-Up Workshop – Strategic Health Innovation Plan (02:00 – 03:30) • Present and refine digital transformation strategies

Certification

Participants will receive a Certificate of Completion in Medical Technologies – Digital Health & Wearable Technology, validating their ability to assess, implement, and manage digital and wearable innovations in healthcare environments for improved outcomes and patient engagement.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
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- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
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