MAWA EVENTS

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

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

MANAGING & ANALYZING HEALTH DATA

"Transforming Healthcare Decisions Through Accurate, Secure, and Actionable Data Insights"

Schedule

Date	Venue	Fees
20 – 24 Jul 2026	Dubai, UAE	USD 3495 per delegate

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

Introduction

Health data is a critical driver of operational efficiency, clinical quality, and policy planning in today's healthcare systems. Managing large volumes of sensitive data securely and deriving actionable insights from it is essential to improving patient outcomes, reducing costs, and supporting evidence-based decisions.

This comprehensive 5-day course equips healthcare professionals, analysts, and data managers with the skills to collect, manage, and analyze health data effectively. The training includes data governance, analytics tools, privacy regulations, and hands-on practice in applying data-driven decision-making in clinical and administrative contexts.

Objectives

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

- Understand the types, sources, and lifecycle of health data
- Apply standards for data quality, governance, and privacy (HIPAA, GDPR)
- Analyze healthcare data using descriptive and basic predictive techniques
- Interpret data to improve clinical, operational, and financial outcomes
- Develop dashboards and reports to support healthcare decision-making

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Why Attend

- Learn how to manage health data securely and in compliance with global standards
- Improve your ability to extract meaningful insights from health datasets
- Support better patient care and resource allocation using analytics
- Gain practical tools for dashboard creation and KPI monitoring
- Strengthen collaboration between clinical, IT, and administrative teams

Target Audience

This program is designed for:

- Health informatics and medical records professionals
- Healthcare analysts and data managers
- Clinical and administrative leaders
- IT and health system support staff
- Public health and policy planners

Individual Benefits

Key competencies that will be developed include:

- Data literacy and governance awareness
- Basic data analysis using Excel or BI tools
- Understanding of clinical and operational metrics
- Health data visualization and communication
- Regulatory knowledge of data privacy and security

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Better quality and accuracy in health data reporting
- Improved support for data-driven clinical decisions
- Stronger compliance with privacy and security standards
- Increased efficiency in resource planning and risk management
- Enhanced ability to track performance across departments

Instructional Methodology

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

- Strategy Briefings – Health data systems, policies, and infrastructure
- Case Studies – Data-driven improvements in healthcare services
- Workshops – Data cleaning, analysis, and KPI tracking
- Peer Exchange – Challenges and success stories across healthcare settings
- Tools – Data quality checklists, Excel templates, BI dashboards

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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 Health Data Management

- Module 1: Introduction to Health Data Types and Sources (07:30 – 09:30) • EMRs, claims, surveys, registries, IoT data • Clinical vs administrative datasets
- Module 2: Health Data Standards and Regulations (09:45 – 11:15) • ICD, CPT, HL7, FHIR • HIPAA, GDPR, and local data policies
- Module 3: Data Quality and Integrity (11:30 – 01:00) • Completeness, consistency, accuracy • Cleaning and validation techniques
- Module 4: Workshop – Assess Health Data Quality (02:00 – 03:30) • Identify and correct data quality issues in case datasets

Day 2: Health Data Governance and Infrastructure

- Module 5: Data Governance in Healthcare Organizations (07:30 – 09:30) • Policies, roles, and responsibilities • Data stewardship and ownership
- Module 6: Secure Data Storage and Access Controls (09:45 – 11:15) • Encryption, backup, and access levels • Audit trails and breach prevention
- Module 7: Structuring Health Data for Analysis (11:30 – 01:00) • Tabular, relational, and longitudinal formats • Data dictionaries and coding systems
- Module 8: Workshop – Map a Health Data Structure (02:00 – 03:30) • Create a basic schema for a sample dataset

Day 3: Data Analysis and Performance Metrics

- Module 9: Introduction to Descriptive Analytics (07:30 – 09:30) • Mean, median, mode, frequency • Trends and patterns in patient data
- Module 10: KPIs and Healthcare Performance Indicators (09:45 – 11:15) • Length of stay, readmission, utilization • Operational vs clinical metrics
- Module 11: Introduction to Predictive Health Analytics (11:30 – 01:00) • Risk stratification, cohort analysis • Forecasting trends and resource needs
- Module 12: Workshop – Perform KPI Analysis in Excel (02:00 – 03:30) • Use functions and charts for metric visualization

Day 4: Reporting and Visualization

- Module 13: Data Visualization Best Practices (07:30 – 09:30) • Charts, graphs, heatmaps, dashboards • Clarity, simplicity, and visual integrity
- Module 14: Building Effective Dashboards (09:45 – 11:15) • Design principles and tool options • Interactive filtering and real-time updates
- Module 15: Report Design for Clinical & Executive Audiences (11:30 – 01:00) • Tailoring language and layout • Storytelling with data
- Module 16: Workshop – Build a Health Dashboard (02:00 – 03:30) • Create a functional dashboard prototype

Day 5: Applications and Integration

- Module 17: Using Data to Improve Patient Outcomes (07:30 – 09:30) • Clinical pathways, alerts, and decision support • Evidence-based medicine
- Module 18: Integrating Analytics into Hospital Operations (09:45 – 11:15) • Demand planning, supply usage, resource allocation • Cost containment strategies
- Module 19: Case Review and Future Trends (11:30 – 01:00) • AI and machine learning in health • Real-time monitoring and predictive insights
- Module 20: Final Workshop – Health Data Strategy Plan (02:00 – 03:30) • Draft a data use roadmap for a department or organization

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Certification

Participants will receive a Certificate of Completion in Managing & Analyzing Health Data, verifying their ability to manage health information systems, ensure data quality, and use analytics to support patient care and operational excellence.

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**

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