

## CLOUD COMPUTING IN THE HEALTHCARE INDUSTRY

“Leveraging the Cloud to Enhance Care Delivery, Data Security, and Operational Efficiency”

### Schedule

Date	Venue	Fees
15 - 19 Feb 2026	Manama, Bahrain	USD 3495 per delegate

### Introduction

Cloud computing is revolutionizing the healthcare sector by enabling scalable data storage, real-time collaboration, and access to powerful computing resources. As healthcare organizations adopt digital platforms, the cloud offers an essential foundation for electronic health records (EHRs), telemedicine, patient portals, and advanced analytics.

This five-day intensive course explores the application of cloud technologies in healthcare, covering infrastructure, data privacy, system integration, cybersecurity, and compliance frameworks. Designed for IT, clinical, and administrative leaders, the course equips participants with the strategic and technical knowledge to safely and effectively implement cloud solutions across healthcare environments.

### Objectives

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

- Understand cloud computing models, architectures, and service offerings
- Evaluate the benefits and risks of cloud adoption in healthcare settings
- Apply compliance, data governance, and cybersecurity best practices
- Develop a migration strategy for healthcare IT systems to the cloud
- Manage vendor relationships and assess cloud service agreements (SLAs)

## Why Attend

- Explore how cloud platforms support secure, scalable healthcare solutions
- Gain confidence in managing cloud projects and working with vendors
- Learn how cloud can enhance telehealth, remote monitoring, and EHR systems
- Ensure compliance with HIPAA, GDPR, and national data protection laws
- Build an actionable cloud adoption roadmap tailored to your organization

## Target Audience

This program is designed for:

- CIOs, CTOs, and healthcare IT managers
- Hospital administrators and digital transformation leaders
- Health informatics and system integration specialists
- Compliance, cybersecurity, and risk management professionals
- Consultants and professionals overseeing healthcare cloud initiatives

## Individual Benefits

Key competencies that will be developed include:

- Cloud infrastructure planning and deployment in healthcare settings
- Understanding hybrid, private, and public cloud configurations
- Data protection, privacy, and disaster recovery planning
- Strategic alignment of cloud services with clinical workflows
- Vendor and SLA management in cloud partnerships

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Stronger alignment between IT capabilities and clinical needs
- Reduced infrastructure costs and improved operational agility
- Enhanced data access, sharing, and integration across systems
- Increased resilience through cloud-based backup and recovery
- Improved compliance and patient trust through secure cloud practices

## Instructional Methodology

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

- Strategy Briefings - Cloud models, healthcare use cases, and compliance frameworks
- Case Studies - Cloud adoption success stories and lessons from failed implementations
- Workshops - Infrastructure mapping, risk assessment, and migration planning
- Peer Exchange - Group discussions on system integration and vendor selection
- Tools - Checklists for cloud readiness, SLAs, and regulatory compliance

## 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

### Detailed 5-Day Course Outline

**Training Hours:** 07:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

#### Day 1: Introduction to Cloud in Healthcare

- Module 1: Cloud Computing Essentials (07:30 – 09:30) • Definitions and types: IaaS, PaaS, SaaS • Public, private, and hybrid cloud models • Core cloud architecture and terminology
- Module 2: Drivers of Cloud Adoption in Healthcare (09:45 – 11:15) • Digital transformation and interoperability • Scalable storage and computing for medical data • Cloud benefits: cost-efficiency, mobility, collaboration
- Module 3: Healthcare Use Cases and Opportunities (11:30 – 01:00) • Cloud for EHRs, telemedicine, and imaging • Remote monitoring and real-time analytics • AI and machine learning applications in the cloud
- Module 4: Workshop – Cloud Opportunity Mapping (02:00 – 03:30) • Identify high-impact use cases for your organization

#### Day 2: Architecture, Deployment & Integration

- Module 1: Designing a Cloud Architecture (07:30 – 09:30) • Multi-tenant vs. single-tenant environments • Resource provisioning and scalability • Network and access control design
- Module 2: Cloud Integration with Existing Systems (09:45 – 11:15) • EHR integration, HL7 and FHIR standards • Data migration strategies and tools • Avoiding vendor lock-in
- Module 3: Working with Cloud Service Providers (11:30 – 01:00) • Selecting vendors (AWS, Azure, Google Cloud, Oracle) • Service Level Agreements (SLAs) and key contract terms • Support, availability, and uptime guarantees
- Module 4: Workshop – System Architecture Planning (02:00 – 03:30) • Design a basic architecture plan for your facility

#### Day 3: Security, Privacy, and Compliance

- Module 1: Cloud Security Risks and Controls (07:30 – 09:30) • Shared responsibility model • Identity and access management (IAM) • Encryption, firewalls, and multi-factor authentication
- Module 2: Healthcare Privacy Regulations (09:45 – 11:15) • HIPAA, GDPR, and national privacy laws • Data classification and retention • Consent management and audit trails
- Module 3: Business Continuity and Disaster Recovery (11:30 – 01:00) • Backup strategies and cloud resilience • Data availability and recovery point objectives • Incident response planning
- Module 4: Workshop – Cloud Security Risk Assessment (02:00 – 03:30) • Conduct a threat assessment for a sample cloud deployment

#### Day 4: Governance, Operations, and Performance

- Module 1: Cloud Governance and Monitoring (07:30 – 09:30) • Policies for usage, billing, and accountability • Cost optimization tools and dashboards • KPIs for performance and user adoption
- Module 2: Cloud Operations and Support (09:45 – 11:15) • ITSM in the cloud • Helpdesk and escalations • Vendor relationship management
- Module 3: Evaluating ROI and Outcomes (11:30 – 01:00) • Financial modeling for cloud adoption • Measuring clinical and operational impact • Reporting to stakeholders
- Module 4: Workshop – Drafting a Governance Policy (02:00 – 03:30) • Build a cloud policy tailored to a healthcare use case

#### Day 5: Strategy and Final Planning

- Module 1: Cloud Adoption Strategy Development (07:30 – 09:30) • Phased implementation roadmap • Staff training and change management • Pilots, feedback loops, and scaling
- Module 2: Future Trends in Cloud and Digital Health (09:45 – 11:15) • Serverless computing and edge processing • Blockchain in cloud health systems • The evolving regulatory landscape

- **Module 3: Final Planning and Review (11:30 – 01:00)** • Personal and organizational action planning • Review of key concepts, tools, and templates
- **Module 4: Certification and Course Close (02:00 – 03:30)** • Final Q&A, feedback • Certificate distribution and wrap-up

### Certification

Participants will receive a Certificate of Completion in Cloud Computing in the Healthcare Industry, validating their readiness to plan, implement, and manage secure cloud computing environments tailored to the needs of modern healthcare systems.

### 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.

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

© Material published by MAWA Events shown here is copyrighted. All rights reserved. Any unauthorized copying, distribution, use, dissemination, downloading, storing (in any medium), transmission, reproduction or reliance in whole or any part of this course outline is prohibited and will constitute an infringement of copyright.