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COURSE BROCHURE

Advanced Digital Facility Management and CAFM Analytics Training Course

19 – 30 September 2027
Abu Dhabi

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Registered in the United Kingdom and Saudi Arabia

Advanced Digital Facility Management and CAFM Analytics Training Course

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Digital Facility Management and CAFM Analytics is a 2-week advanced training course for senior facility managers, FM consultants and workplace technology leads, built around one work product, a digital FM improvement roadmap for a building portfolio. Sensors, connected plant and cloud platforms now generate more building data than most FM teams can use, and owners expect that data to cut cost and improve occupant experience. Jupiter Prime Training delivers this course on Digital Facility Management and CAFM Analytics.

Why Digital Facility Management and CAFM Analytics Matters Now

Three forces push FM towards data. Hardware costs for occupancy sensors, smart meters and wireless condition monitors have fallen, so portfolios can instrument whole buildings. Occupiers and investors ask for evidence of space use, comfort and carbon rather than anecdote. Service providers compete on dashboards and response analytics, raising the bar for in-house teams. An organisation that connects its computer-aided facility management CAFM and integrated workplace management system IWMS data turns information into fewer breakdowns and better space decisions; one that buys platforms without a data model ends with silos and unused licences. The course links these techniques to ISO 41001 for facility management systems.

Who Gains Most from Digital Facility Management and CAFM Analytics

- Leaders accountable for FM technology investment across a building portfolio
- Consultants who advise owners on CAFM, IWMS and smart building platforms
- Workplace technology leads who manage sensors, networks and integrations
- Performance analysts who produce FM dashboards and benchmarking reports
- Maintenance strategy owners moving from time-based to condition-based work

A corporate real estate or FM provider team gains most when its operations, IT and analytics leads attend together and agree one data roadmap.

Digital Facility Management and CAFM Analytics Capabilities

Participants leave able to choose, connect and exploit FM data platforms so that every dataset informs a decision.

- Specify CAFM and IWMS requirements, data models and integrations — procurement and IT partners
- Design an IoT sensor deployment for occupancy, environment and plant condition — workplace technology leads
- Build condition-based maintenance triggers from live plant data — maintenance contractors
- Calculate FM benchmarks and occupancy metrics across sites — portfolio directors
- Assess digital twin options for operations and space planning — executive sponsors

- Communicate a digital roadmap with phased business cases — finance and leadership

Key Digital Facility Management and CAFM Analytics Terms

- CAFM — computer-aided facility management software that records assets, space, helpdesk requests and maintenance work orders.
- IWMS — an integrated workplace management system combining real estate, space, maintenance, projects and sustainability modules on one platform.
- Digital Twin — a live virtual model of a building linked to sensor and system data for monitoring and simulation.
- IoT Sensor — a connected device that measures conditions such as occupancy, temperature, vibration or energy and sends readings to a platform.
- Condition-Based Maintenance — maintenance triggered by measured equipment condition rather than fixed calendar intervals.
- Occupancy Analytics — analysis of how often and how intensively desks, rooms and floors are used over time.

Digital Facility Management and CAFM Analytics Day by Day

Day 1: The Data-Driven FM Landscape

- Digital FM Maturity Model — Locating the Portfolio on the Journey
- Building Data Sources Map — BMS, Meters, Helpdesk and Access Systems
- Smart Building Use Cases — Offices, Hospitals, Campuses and Retail
- Stakeholder Data Needs — Owners, Occupiers and Service Providers
- Technology Hype Filter — Separating Proven Tools From Fashion

Day 2: CAFM and IWMS Platforms

- CAFM Module Review — Assets, Space, Helpdesk and Work Orders
- IWMS Scope Decisions — Lease, Projects and Sustainability Modules
- Platform Selection Criteria — Usability, Openness and Total Cost
- Mobile Workforce Apps — Technician Scheduling and Proof of Completion
- Implementation Pitfalls — Data Migration and User Adoption Failures

Day 3: FM Data Models and Integration

- Asset and Space Data Standards — Naming, Classification and Hierarchies
- BIM to CAFM Handover — Reusing Design Data in Operations
- API and Middleware Integration — Linking BMS, ERP and CAFM
- Data Quality Rules — Validation, Ownership and Cleansing Routines
- Cyber Security for Building Systems — Segmentation and Access Control

Day 4: IoT Sensors and Connectivity

- Sensor Selection — Occupancy, Air Quality, Vibration and Leak Detection
- Network Options — LoRaWAN, Wi-Fi and Wired Building Networks
- Sensor Placement Planning — Coverage, Density and Privacy
- Edge and Cloud Processing — Where Data Is Filtered and Stored
- Pilot Deployment Design — Proving Value Before Portfolio Rollout

Day 5: Condition-Based and Predictive Maintenance

- Condition Monitoring Techniques — Vibration, Thermal and Current Signatures
- Fault Detection and Diagnostics Rules — Automating Alarm Triage
- Remaining Life Estimation — Planning Interventions From Trends
- Work Order Automation — Converting Alerts Into CAFM Jobs
- Maintenance Savings Tracking — Comparing Planned and Condition-Based Costs

Day 6: Digital Twins

- Digital Twin Maturity Levels — Static Model to Predictive Simulation
- Twin Data Feeds — Linking BIM, Sensors and Work History
- Operational Twin Use Cases — Energy Tuning and Fault Location
- Space Scenario Simulation — Testing Layouts Before Moves
- Twin Business Case — Costs, Benefits and Ownership

Day 7: Occupancy and Workplace Analytics

- Occupancy Data Collection — Sensors, Wi-Fi Counts and Booking Systems
- Utilisation Metrics — Peak, Average and Frequency Measures
- Desk and Room Booking Analytics — No-Shows and Demand Patterns
- Workplace Experience Data — Comfort Feedback and Service Ratings
- Space Rationalisation Evidence — Supporting Floor Release Decisions

Day 8: Benchmarking and Performance Dashboards

- FM Benchmark Sets — Cost, Energy, Space and Service Metrics
- Normalisation Methods — Adjusting for Size, Climate and Hours
- Dashboard Design — Executive, Operational and Contractor Views
- Data Storytelling — Presenting Findings to Non-Technical Leaders
- Continuous Improvement Loops — Turning Insights Into Actions

Day 9: Digital Transformation Leadership

- Digital FM Business Case — Benefits Mapping and Payback
- Vendor Contracting — Data Ownership, Exit and Service Levels
- Skills and Roles — Data Analysts and Platform Administrators in FM
- Change Adoption Plan — Technicians, Helpdesk and Occupiers
- Sustainability Reporting Data — Carbon and Energy Disclosure Feeds

Day 10: Practising the Digital FM Improvement Roadmap

- Portfolio Digital Baseline — Applying the Maturity Model to a Case
- Platform and Sensor Architecture — Applying Integration and IoT Choices
- Analytics Priorities — Applying Benchmarks and Occupancy Metrics
- Steering Group Simulation — Defending Investment Phasing
- Digital FM Improvement Roadmap — Completing the Phased Portfolio Plan

Applying Digital Facility Management and CAFM Analytics After the Course

- Audit CAFM asset and space data on one building against naming and classification rules, and publish a data cleansing plan with owners.
- Launch a small occupancy sensor pilot on one floor and present utilisation findings with a recommendation on desk ratios.

Digital Facility Management and CAFM Analytics Questions FAQ

What is Digital Facility Management and CAFM Analytics and why does it matter now?

Digital Facility Management and CAFM Analytics is the use of FM platforms, sensors and data analysis to run buildings by evidence. It matters now because affordable sensors and connected plant produce data that owners expect to cut cost and improve space use.

Which roles gain most from Digital Facility Management and CAFM Analytics?

Senior facility managers, FM consultants and workplace technology leads gain most. Performance analysts and maintenance strategy owners also benefit because the course covers dashboards, benchmarking and condition-based maintenance.

How does Digital Facility Management and CAFM Analytics differ from a general facilities management course?

It focuses on data platforms and analytics rather than service models or contracts. A general course covers sourcing, budgets and service delivery, while this course covers CAFM, IWMS, IoT, digital twins, occupancy analytics and data integration.

What do you bring back from Digital Facility Management and CAFM Analytics?

You bring back a digital FM improvement roadmap for a building portfolio, with a maturity baseline, platform and sensor architecture, analytics priorities and phased business cases for leadership approval.

Digital Facility Management and CAFM Analytics: The Way Forward

The digital FM improvement roadmap gives the steering group a single basis for its next technology decision, often whether to replace or extend the current CAFM platform. FM leaders, IT partners and analysts use it to phase sensors and integrations. After the first pilot, revisit data quality, adoption and savings evidence before scaling across the portfolio.