



IT MANAGEMENT AND CYBER SECURITY | IMCS-022

IT Infrastructure and Data Centre Management

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Course content

Why Attend

Reliable IT infrastructure underpins every digital service. Data centres, networks, servers and storage must be designed, operated and maintained for availability, security, efficiency and growth.

This Aractech course covers infrastructure architecture, data centre facilities and tiers, power and cooling, servers, storage and virtualisation, hybrid and cloud infrastructure, monitoring and capacity management, resilience and energy efficiency. Participants assess and plan infrastructure improvements.

Course Methodology

- Technical presentations
- Design exercises
- Case studies
- Capacity planning workshop
- Group discussions

Course Objectives

- Describe IT infrastructure components and architectures
- Understand data centre design, power and cooling
- Manage servers, storage and virtualisation
- Plan hybrid and cloud infrastructure
- Monitor capacity and performance
- Improve resilience and energy efficiency

Target Audience

- Infrastructure managers
- Data centre managers

Course content

- System engineers
- IT operations staff

Course outline

Detailed course outline

Day-by-day outline for IT Infrastructure and Data Centre Management.

Day 1 - Infrastructure Overview

- 09:00-09:39 | Infrastructure components
- 09:39-10:18 | Architectures
- 10:18-10:57 | Service requirements
- 10:57-11:00 | Standards
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Standards (continued)
- 12:05-12:43 | Trends
- 12:43-14:00 | Exercise: Infrastructure inventory

Day 2 - Data Centre Facilities

- 09:00-10:07 | Tiers and design
- 10:07-10:41 | Power systems
- 10:41-11:00 | Cooling
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Cooling (continued)
- 11:45-12:19 | Physical security
- 12:19-12:53 | Energy efficiency
- 12:53-14:00 | Workshop: Data centre assessment

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Day 3 - Compute and Storage

- 09:00-09:39 | Servers
- 09:39-10:18 | Virtualisation
- 10:18-10:57 | Storage systems
- 10:57-11:00 | Backup
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Backup (continued)
- 12:05-12:43 | Containers overview
- 12:43-14:00 | Exercise: Storage planning

Day 4 - Hybrid and Cloud

- 09:00-09:34 | Cloud models
- 09:34-10:08 | Hybrid architecture
- 10:08-10:42 | Migration considerations
- 10:42-11:00 | Edge computing
- 11:00-11:30 | Coffee break
- 11:30-11:46 | Edge computing (continued)
- 11:46-12:53 | Case study: Hybrid infrastructure
- 12:53-14:00 | Exercise: Workload placement

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Day 5 - Operations and Resilience

- 09:00-09:45 | Monitoring
- 09:45-10:30 | Capacity management
- 10:30-11:00 | Availability
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Availability (continued)
- 11:45-12:30 | Disaster recovery
- 12:30-13:15 | Improvement
- 13:15-14:00 | Capstone: Infrastructure plan

Seminar dates

Available seminar dates

Live dates and pricing for IT Infrastructure and Data Centre Management generated from the course details page.

Date	Location	Format	Fee
16 - 20 November 2026	Rome	Classroom	€3,460
7 - 11 December 2026	Munich	Classroom	€3,225
11 - 15 January 2027	Barcelona	Classroom	€2,815
8 - 12 February 2027	Frankfurt	Classroom	€1,875
8 - 12 March 2027	Rome	Classroom	€3,460
12 - 16 April 2027	Kuala lumpur	Classroom	€1,925
10 - 14 May 2027	Kuala lumpur	Classroom	€1,925
14 - 18 June 2027	Rome	Classroom	€3,460
12 - 16 July 2027	Munich	Classroom	€3,225
9 - 13 August 2027	Barcelona	Classroom	€2,815

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