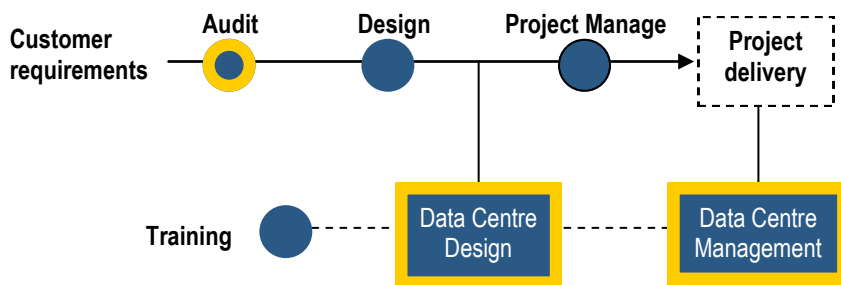


# CAPITOLINE

DATA CENTRES AND IT INFRASTRUCTURE

Surgery code DCS-10



## Data Centre Surgery

A unique onsite 4-day Surgery combining training with an audit of your own facility. You will identify, with the assistance of an expert, how improvements can be made to design and procedures to improve energy efficiency and resilience.

From Capitoline's international practical experience gained by auditing and designing small and large computer rooms and data centres both in the private and public sector comes this unique 4-day surgery. It combines on site training with an audit of your computer room or data centre to determine how it matches up to best practices and to identify short and long term improvements.

**Learn how to improve the efficiency and resilience of your data centre or computer room.**

The Workshop comprises two days of training to create a good understanding of the essential principles of good data centre design and operational management followed by a day auditing your facility. The final day is then spent using the information from the audit to determine the suitability of the layout, power, cooling systems and cabling infrastructure and to plan improvements which could be made in the short and long term to improve the efficiency and resilience of the facility. Following completion of the workshop you will also receive a full audit report from our consultant.

Every two weeks, somewhere in the world, a major data centre suffers a major breakdown and loss of availability with an average downtime of 17 hours. In nearly every case these breakdowns are avoidable with better design and procedures in place. The workshop is aimed at reducing the likelihood of your facility becoming one of them.

**“A unique opportunity to learn from the experts and apply this immediately to your own facility with assistance from the same experts .”**

### LEARN

**Your whole team (4-10 individuals) will learn best practice design and management of a Data Centre**

### AUDIT

**You will audit your own facility with a Capitoline expert.**

### IMPROVE

**You will analyse the results of the audit and compare them to best practice.**

**You will identify the shortfalls in design and procedures and plan improvements**

### INCLUDES A FULL AUDIT REPORT

**written by our expert consultant reviewing your facility recommending improvements.**

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+44 (0)800 014 8014

info@capitoline.co.uk

## Surgery contents and objectives

### LEARN

- Tier definitions, TIA 942, ASHRAE and other Standards
- The 'Green Agenda'. Measuring data centre energy efficiency
- Sizing and optimising room layouts including hot aisle/cold aisle
- Sizing and designing a resilient power supply system including UPS and generator selection. N, N+1 and 2N models
- IT grade earthing, grounding and bonding
- Sizing and designing air conditioning plus modern low energy options
- Fire detection and suppression techniques appropriate to data centres
- Data cable selection, copper and fibre, and ideal interconnect models
- Housekeeping requirements
- BMS and status monitoring and EU Code of Conduct requirements
- Policies and procedures to put in place to manage the data centre
- Identifying responsibilities
- Essential Maintenance plans

Following the surgery you will receive a full audit report written by our expert consultant reviewing your current facility design and operational procedures and recommending improvements.

### AUDIT

- Audit your own facility with our consultant against the criteria of best practice design and Operations Management

### IMPROVE

- Put the training into practice to analyse the current facility and operational procedures and propose improvements

### Who should attend

- IT managers and directors
- Data centre managers and directors
- Facilities managers
- Engineers and Staff involved in data centre operations

### Qualification

- Successful completion of the workshop leads to the Capitoline DCS certification
- BICSI Continuing Education Credits (21)
- CIBSE Continuing Professional Development certificate



AMS-IX official auditor

## DESIGN : AUDIT : TRAINING

[www.capitoline.eu](http://www.capitoline.eu)

Head Office: Capitoline LLP, 6 High Grove, Welwyn Garden City, Herts AL8 7DW, England  
North West: Capitoline LLP, Capitoline House, 17 Chads Green, Nantwich, Cheshire, CW5 7NL  
Dubai: Capitoline LLP, 3-W 407, Dubai Airport Free Zone, Dubai, UAE

T: +44 0800 014 8014 F: +44 0800 014 8015  
T: +44 0800 014 8014 F: +44 0800 014 8015  
T: +9714 2994140 F: +9714 2994143

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