

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 22237-2 — Data Centre Power Distribution

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference IIT-DTC-22237-2 • ISO IT & Related Technologies

UKPRN 10067351 • Registered in England and Wales, company 4984798

AT A GLANCE

REFERENCE	IIT-DTC-22237-2
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1	Advanced Power Systems Design 0 chapters65 marks
2	Data Centre Infrastructure Management 5 chapters · 30 classes85 marks • 1 Fundamentals of Data Centre Power Systems — 6 classes › 1.1 Define key components of data centre power systems › 1.2 Explain the role of power distribution units (PDUs) in data centres › 1.3 Identify various power sources for data centres › 1.4 Describe the importance of redundancy in power systems › 1.5 Assess power management strategies for energy efficiency › 1.6 Implement best practices for monitoring power usage • 2 Understanding ISO 22237-2 Standards — 6 classes › 2.1 Explore the Purpose and Importance of ISO 22237-2 Standards › 2.2 Identify Key Components of Data Centre Power Distribution › 2.3 Analyze Compliance Requirements in ISO 22237-2 › 2.4 Evaluate Risk Management Strategies for Power Distribution › 2.5 Apply Best Practices for Implementing ISO 22237-2 Standards › 2.6 Assess the Impact of ISO 22237-2 on Data Centre Operations • 3 Power Distribution Configurations and Technologies — 6 classes › 3.1 Explore Different Power Distribution Configurations in Data Centres › 3.2 Analyze the Benefits and Challenges of Centralized vs. Decentralized Systems › 3.3 Investigate Power Distribution Technologies and Their Applications › 3.4 Examine Energy Efficiency Standards in Power Distribution for Data Centres › 3.5 Compare Redundancy Strategies in Power Distribution Frameworks › 3.6 Implement Best Practices for Monitoring and Managing Power Distribution • 4 Monitoring and Management of Power Resources — 6 classes › 4.1 Identify Key Components of Power Distribution in Data Centres › 4.2 Analyze Power Resource Monitoring Technologies and Tools › 4.3 Assess the Importance of Real-Time Data in Power Management › 4.4 Demonstrate Techniques for Power Consumption Analysis › 4.5 Evaluate Strategies for Optimizing Power Distribution Efficiency › 4.6 Implement Best Practices for Monitoring and Reporting Power Usage • 5 Implementing Effective Leadership in Power Distribution — 6 classes › 5.1 Assessing Current Power Distribution Leadership Practices › 5.2 Identifying Key Leadership Competencies in Power Distribution › 5.3 Developing Effective Communication Strategies for Teams › 5.4 Implementing Decision-Making Frameworks in Power Distribution › 5.5 Evaluating Performance Metrics for Power Distribution Leaders › 5.6 Creating an Action Plan for Leadership Improvement
3	Energy Efficiency and Sustainability 0 chapters65 marks
4	Leadership in Data Centre Operations 0 chapters45 marks

• 1 Fundamentals of Power Distribution in Data Centres — 6 classes

- › 1.1 Define Key Concepts in Power Distribution
- › 1.2 Identify Components of Data Centre Power Systems
- › 1.3 Explain Voltage Levels and Their Importance
- › 1.4 Describe Power Distribution Topologies in Data Centres
- › 1.5 Analyze Power Distribution Efficiency Metrics
- › 1.6 Explore Future Trends in Data Centre Power Distribution

• 2 Electrical Standards and Compliance for Data Centre Power Systems — 6 classes

- › 2.1 Identify Key Electrical Standards in Data Centres
- › 2.2 Explain Compliance Requirements for Power Distribution
- › 2.3 Analyze the Impact of ISO 22237-2 on Data Centre Design
- › 2.4 Evaluate Risk Management in Power Distribution Systems
- › 2.5 Implement Procedures for ISO Compliance Monitoring
- › 2.6 Create a Compliance Checklist for Data Centre Power Systems

• 3 Power Distribution Architecture and Design Principles — 6 classes

- › 3.1 Identify Key Components of Power Distribution Architecture
- › 3.2 Explain Voltage and Current Concepts in Distribution Systems
- › 3.3 Analyze Power Losses and Efficiency in Power Distribution
- › 3.4 Evaluate Redundancy and Reliability in Power Distribution Design
- › 3.5 Design Scalable Power Distribution Solutions for Data Centers
- › 3.6 Assess Compliance with ISO 22237-2 in Power Distribution Design

• 4 Load Management and Power Allocation Strategies — 6 classes

- › 4.1 Identify Key Concepts of Load Management
- › 4.2 Analyze Different Power Allocation Strategies
- › 4.3 Assess Load Balancing Techniques for Data Centres
- › 4.4 Evaluate Impact of Load Management on Energy Efficiency
- › 4.5 Design a Load Management Plan for a Data Centre
- › 4.6 Implement Monitoring Solutions for Effective Power Allocation

• 5 Monitoring and Maintenance of Power Distribution Systems — 6 classes

- › 5.1 Identify Key Components of Power Distribution Systems
- › 5.2 Explain the Importance of Monitoring Power Distribution
- › 5.3 Describe Common Monitoring Techniques and Tools
- › 5.4 Analyze Data from Power Distribution Monitoring Systems
- › 5.5 Implement Routine Maintenance Protocols for Distribution Systems
- › 5.6 Evaluate Case Studies on Power Distribution System Failures

• 1 Introduction to Risk Management in Data Centre Operations — 6 classes

- › 1.1 Define Key Terminology in Risk Management
- › 1.2 Identify Common Risks in Data Centre Operations
- › 1.3 Analyze Impact of Risks on Data Centre Functionality
- › 1.4 Assess Existing Risk Management Frameworks
- › 1.5 Develop a Risk Assessment Plan for Data Centres
- › 1.6 Implement Compliance Strategies for Risk Mitigation

• 2 Identifying and Assessing Risks in Data Centre Power Distribution — 6 classes

- › 2.1 Identify Key Risks in Power Distribution Systems
- › 2.2 Evaluate the Impact of Power Distribution Failures
- › 2.3 Analyze Current Compliance Standards for Power Distribution
- › 2.4 Assess Risk Mitigation Strategies in Data Centres
- › 2.5 Develop an Effective Risk Assessment Framework
- › 2.6 Implement Continuous Monitoring for Power Distribution Risks

• 3 Compliance Frameworks and Standards for Data Centre Risk Management — 6 classes

- › 3.1 Identify Key Compliance Frameworks for Data Centre Operations
- › 3.2 Analyze ISO 22237-2 Standard and Its Relevance to Risk Management
- › 3.3 Evaluate Risks Associated with Non-Compliance in Data Centres
- › 3.4 Develop a Compliance Checklist for Data Centre Power Distribution
- › 3.5 Implement Best Practices for Maintaining Compliance in Data Centres
- › 3.6 Assess the Impact of Compliance on Data Centre Risk Mitigation Strategies

• 4 Mitigation Strategies for Risk Control in Data Centres

• 5 Monitoring, Reviewing, and Improving Risk Management Processes