Certified Data Centre Environmental Sustainability Specialist (CDESS)

Category: Infrastructure & IT Operations | **Vendor:** EPI

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

The CDESS® course is aimed at providing knowledge of the standards and guidelines related to environmental sustainability, and how to move your data centre (existing or new) to a more environmentally sustainable design and operations.

About This Course

The CDESS® course is aimed at providing knowledge of the standards and guidelines related to environmental sustainability, and how to move your data centre (existing or new) to a more environmentally sustainable design and operations.

Who Should Attend

The primary audience for this course is any IT, facilities or data centre professional who works in and around the data centre and has the responsibility to achieve and improve efficiency and environmental sustainability, whilst maintaining the availability and manageability of the data centre.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

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Understand the impact of data centres on the environment

Describe the various environmental/energy management standards

Understand the purpose and goals of the legally binding international treaties on climate change

Implement various sustainable performance metrics and how to use them in the data centre environment

Manage data centre environmental sustainability using international standards

Set up the measurement, monitoring and reporting of energy usage

Use power efficiency indicators in a variety of data centre designs

Use best practices for energy savings in the electrical infrastructure and in the mechanical (cooling) infrastructure

Use best practices for energy savings for the ICT equipment and data storage

Understand the importance of water management and waste management

Understand the different ways to use sustainable energy in the data centre

Get practical tips and innovative ideas to make a data centre more sustainable

Detailed Course Outline

Impact of Data Centres on the Environment

- Predictions in 2010
- Current situation
- Outlook and commitments

What is Environmental Sustainability

- The importance of sustainability
- Senior management commitment
- Environmental sustainability framework
- Sustainability policies
- Performance standards and metrics
- Information policies
- Transparency
- Awareness
- Service charging models

Environmental Management

- Environmental sustainability framework (ISO 14001)
- Standards and guidelines ISO 50001 / ISO 30134
- Measurement and categories
- Baselining
- Trend analysis
- Reporting

Power EffiÃ°ciency Indicators

- Various eÃ°fficiency indicators
- Power Usage Effectiveness (PUE)
- PUE measurement levels
- Factors affecting PUE
- Measurement points and intervals
- PUE in mixed source environments
- Measuring PUE in a mixed-use building
- PUE reporting
- Impact of PUE after optimising IT load

Electrical Energy Savings (Electrical)

- Identifying the starting point for saving energy
- Sizing of power
- DC power
- Generators
- UPS systems
- Power Factor (PF)
- Energy savings on lighting

Electrical Energy Savings (Mechanical)

- Energy savings on the cooling infrastructure
- Temperature and humidity setpoints
- Various energy eÃ°cient cooling technologies
- Energy savings on the airflow
- Liquid cooling
- Energy reusage
- PUE, ERE/ERF and Control Volume

Electrical Energy Savings (ICT)

- Procurement
- IT equipment energy eÃ°fficiency
- ITEEsv, SMPE, SMPO
- IT equipment utilisation
- Server virtualisation
- Open compute project

Electrical Energy Savings (Data Storage)

- Data management
- Data storage management
- Data storage equipment effiÃ°ciency

Water Management

- Water Usage Effectiveness (WUE)
- Improving WUE
- Water usage at the power generation source
- Energy Water Intensity Factor (EWIF)

Waste Management

- Waste management policies
- Life-cycle assessment (Cradle to the grave)
- 3 Rs for waste management
- Reduce
- Reuse
- Second-hand market
- Recycle

Sustainable Energy Usage

- Sustainable energy sources
- Power purchase agreements
- Energy attribute certificates
- Renewable Energy Factor (REF)
- Matching renewable energy supply and demand
- Sustainable energy storage
- Carbon trading

Automated Environmental Management Systems

- Use of AI and machine learning
- Load migration
- Data Centre Infrastructure Management (DCIM) solutions

Additional Course Details

Nexus Humans Certified Data Centre Environmental Sustainability Specialist (CDESS) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Certified Data Centre Environmental Sustainability Specialist (CDESS) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Certified Data Centre Environmental Sustainability Specialist (CDESS)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 2-day Certified Data Centre Environmental Sustainability Specialist (CDESS) course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Certified Data Centre Environmental Sustainability Specialist (CDESS) training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Certified Data Centre Environmental Sustainability Specialist (CDESS)?

Yes, we provide corporate training, dedicated training, and closed classes for Certified Data Centre Environmental Sustainability Specialist (CDESS). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Certified Data Centre Environmental Sustainability Specialist (CDESS)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Certified Data Centre Environmental Sustainability Specialist (CDESS) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

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