

Leadership



Certified Data Centre Sustainability Professional

BTEC Level 6 Diploma



Customer Focused
Quality Driven

The **Global Leader** in **Technical Education** for the **Digital Infrastructure Industry**

“Education beats at the heart of Sustainability”
Andrea Illy

Certified Data Centre Sustainability Professional (CDCSP®)

1 Year Distance Learning

Split into Three Terms:

- ▶ Term 1: **Understanding Sustainability and the Business Approach**
Starts - 1 October 2018
- ▶ Term 2: **Technological and Operational Approach to Sustainability**
Starts - 1 February 2019
- ▶ Term 3: **Implementing Sustainability**
Starts - 1 June 2019

Learner Profile

This program is structured for senior data centre operational and facilities management, team leaders and senior engineers wishing to unite existing knowledge with new learning concerning achieving a sustainability focused strategy within their mission critical facility.

Program Requirements

As a distance learner, you will also need a suitable computer with internet connection, together with sufficient IT competence to make effective use of word processing, internet and email.

Pre-Requisites

At least five years' of verifiable experience within the operational data centre environment, including a good awareness of business and operational strategies, policies, processes and procedures, financial considerations, power systems, cooling systems and IT infrastructure.

Program Objectives

The CDCSP® is designed to utilise existing data centre skills, knowledge and experience combined with new learning centred around technical collaboration and innovative approaches targeting sustainability within a data centre facility and the creation and implementation of a long-term sustainability strategy to support the business.

Qualification

- ▶ Internationally and industry recognised BTEC Level 6 Diploma Certified Data Centre Sustainability Professional

Certification

- ▶ Official Certified Data Centre Sustainability Professional (CDCSP®) certification
- ▶ Use of CDCSP post nominal title
- ▶ Use of the CDCSP® logo

Certifications are a commitment to life-long learning and offer the perfect portal to ensure knowledge, skills and certification remain current and up-to-date. Each certification gained requires re-certifying every three years via an online learning management system.

Additional Awards

- ▶ Continual Professional Development (CPDs)
- ▶ IEEE Continual Education Units (CEUs)

Certified Data Centre Sustainability Professional (CDCSP®)

Program Overview

Developing a sustainable future involves meeting the needs of today whilst protecting the environment and resources for tomorrow.

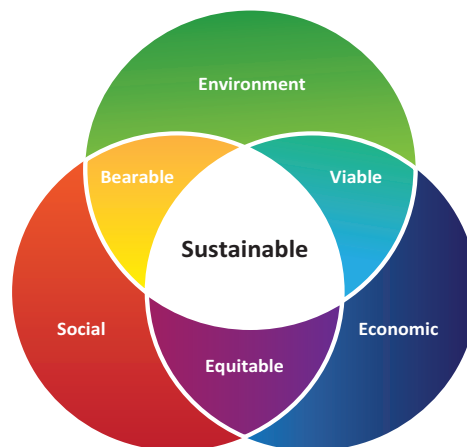
The comprehensive Certified Data Centre Sustainability Professional (CDCSP®) program is designed to provide in-depth knowledge into the steps required to evaluate, formulate, plan, monitor and analyse a sustainability strategy for data centre facilities and operational capability.

Achieving sustainability will be considered from all angles with the overarching requirement to ensure the data centre facility continues to meet the needs of the business. The importance of establishing the correct strategic vision and business drivers required to implement a well-balanced and structured approach towards sustainability is explored. From initial business and operational analysis of power, cooling and IT hardware, and potential operational risk, to design innovation and implementing initiatives whilst appreciating both the business and operational challenges that may occur during this process. Maintenance strategies, continuous planning cycles and critical analysis against identified targets are also explored, in addition to the need to demonstrate proven ROI whilst identifying and capitalising the business, customer and social benefits.

Program Structure

This one-year program is based around supported online distance learning via a learning management system, providing flexibility and complete interaction at every step of the way. On average, learners commit the equivalent of approximately 10 hours of study to the program per week during term time, however this study can be taken at your own pace and undertaken at a convenient time for you. However, the deadlines that are given for your assessed work are strict and must be met. Learners will be supported by the CNet Technical Team with the aim of creating an enriched learning experience.

The program will involve case study exercises (requiring research), attendance of guest speaker webinars, undertaking research papers, participation in virtual panel discussions and a focused dissertation.



Topics at a Glance

Term 1 - Understanding Sustainability and the Business Approach

Number of hours: 100

- ▶ The need for sustainability and the impact upon the data centre sector
- ▶ A sustainable approach and the legislative drivers
- ▶ Corporate Social Responsibility (CSR) and the wider impact to the data centre sector
- ▶ Establishing a data centre baseline and maximising assets
- ▶ Understanding the business needs and data centre limitations
- ▶ Business and operational benefits created by sustainability
- ▶ Creating a sustainable ethos through the business
- ▶ Establishing a business case for sustainability
- ▶ Business approach to sustainability

Additional work involved:

- ▶ A series of case study exercises, that will require a level of personal research
- ▶ Attendance at a webinar (with guest speaker) or a virtual discussion panel

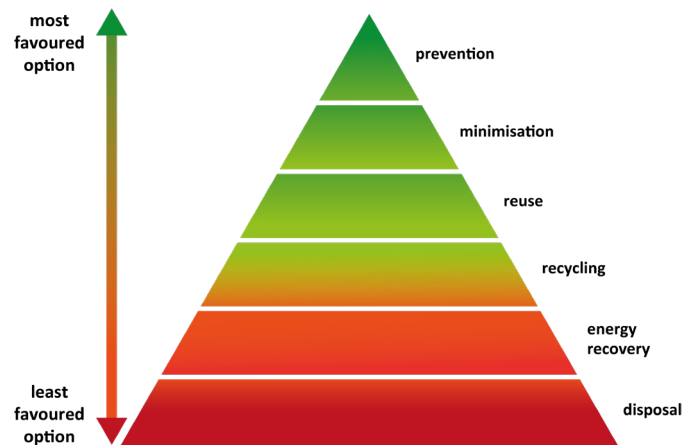
Term 2 - Technological and Operational Approach to Sustainability

Number of hours: 120

- ▶ The need for innovation and collaboration
- ▶ Reduction of human error by effective management and training
- ▶ Industry best practices and transformation programs
- ▶ Monitoring, analysis and automation of the physical infrastructure
- ▶ Evaluating traditional, alternative and renewable power sources
- ▶ Monitoring, analysing and optimising power distribution
- ▶ Monitoring, analysing and optimising cooling capabilities
- ▶ Monitoring, analysing and optimising IT hardware deployment
- ▶ Maintenance strategies
- ▶ Aligning the business, operations and technology to deliver a sustainable path for the future

Additional work involved:

- ▶ Contributing to tutorials and Moodle discussions
- ▶ Watching the recommended videos and webinars, and commenting on the learning points
- ▶ Produce a technical based paper to identify the merits of relevant sustainable data centre technologies
- ▶ Collaborating in a technical working group (3-4 learners)
- ▶ Attendance at a webinar (with guest speaker) or a virtual discussion panel



Term 3 - Implementing Sustainability

Number of hours: 160

- ▶ Corporate sustainability and the core drivers
- ▶ Strategic and sustainable planning
- ▶ Developing and implementing sustainable strategies
- ▶ The strategic planning process
- ▶ Projecting levels of sustainable achievement
- ▶ Obstacles and challenges
- ▶ Monitoring, analysing and reporting sustainability improvements
- ▶ Continuous sustainability planning
- ▶ Certifications, standards and industry accreditations

Additional work involved:

- ▶ Individual dissertation paper (word count - 6,000)
- ▶ Group research and presentation work
- ▶ Attendance at a webinar (with guest speaker) or a virtual discussion panel