



## **Data Center Energy Practitioner (DCEP)**

### **Summary Program Description**

October 12, 2023

#### **Introduction**

The purpose of this summary program description is to provide information about the US Department of Energy's (DOE) DCEP certificate training program; the target audience is those interested in participating in the Program.

#### **Main Objective of Program**

The main objective for the DCEP Program is to raise the standards of those involved in energy assessments of data centers to accelerate energy savings in data centers. The Program is driven by the fact that significant knowledge, training, and skills are required to perform accurate energy assessments in data centers. The Program will raise the confidence level in energy assessments.

For those who pass the exam(s), the Program will recognize them as Data Center Energy Practitioners (DCEP) by listing their names and contact information on this website as well as issuing certificates, but will not endorse any individual. The Program is for individuals only; the designation and the acronym "DCEP" may not be used for organizations, companies, or firms.

#### **Program Tracks**

There are two alternative Program tracks: Training track (training only) or Certificate track (training + exam). For required and recommended pre-qualifications, see Table 1.

#### **Program Levels**

The course has two levels. The Level 1 Practitioners ("Generalists") will be expected to have a good understanding of three data center disciplines (HVAC, Electrical, and IT-equipment) for providing broad recommendations based on the high-level DC Pro Tool. The Level 2 Practitioners ("HVAC Specialists" and "IT Specialists") address HVAC energy opportunities using the in-depth Air Management Tool and the IT Equipment Tool, respectively.

#### **Data Center Profiler (DC Pro) Tool and Air Management Assessment Tool**

Energy software for data centers have been developed by DOE for evaluating major data center systems. These tools are an integral part of the DCEP Program. The system tools include the Electrical Power Chain Tool, the Air Management Tool, and the IT Equipment Tool.

Level	Pre-qualifications (Both Tracks)	Training (Both Tracks)	Exam/Test (Certificate Track)
<p><b>1: Generalist</b></p> <p>High-level knowledge in HVAC, Electrical, and IT-Equipment</p>	<p><u>One</u> of the following is <b>recommended</b>:</p> <p>2-year technical degree with 2 yrs Data Center design/operation experience</p> <p>2-year degree with 4 yrs Data Center design/operation experience</p> <p>5 yrs Data Center design/operation experience or related IT, Network, and/or Telecom experience</p>	<p>1-day training including the Data Center Profiler (DC Pro) Tool</p>	<p>Open-book exam/test</p>
<p><b>2a: HVAC Specialist</b></p> <p>In-depth knowledge in HVAC</p> <p><b>2b: IT Specialist</b></p> <p>In-depth knowledge in IT</p>	<p>Level 1 training is <b>required</b></p> <p>Plus <u>one</u> of the following is <b>recommended</b>:</p> <p>4-year technical degree with 3 yrs Data Center design/operation experience</p> <p>2-year technical degree with 6 yrs Data Center design/operation experience</p> <p>10 yrs Data Center design/operation experience</p>	<p>2-day training including the Air Management Assessment Tool (HVAC Specialist)</p> <p>1-day training including the IT Equipment Tool (IT Specialist)</p>	<p>Open-book exam/test (HVAC Specialist)</p> <p>Open-book exam/test (IT Specialist)</p>

**Table 1: DCEP Program pre-qualifications.**

### **Exam/Test**

All Certificate Track candidates must complete one, two, or three open-book exams (depending on course selections) with multiple-choice questions with a mix of problem solving and knowledge questions. The result is either Pass or Fail. The passing score is 75%. There is a waiting period of 30 days to retake the exam(s). Participants who pass the exam(s) will be designated DCEP at either Level 1 or Level 2 and will receive a Certificate. If a student receives a pass score on the Level 2 exam but failed on the Level 1 exam, he/she will not receive a certificate for either Level until he/she has received a pass score on the Level 1 exam. Participants of the Training Track will receive a Certificate of Participation.

### **How to Participate**

To participate in a particular DCEP training, a candidate must submit an application and a training fee (see below) to the training organization.

The fee for the Generalist Level is \$1,300, the HVAC Specialist Level is \$2,400, and the IT Specialist Level is \$1,400. The Generalist and HVAC Specialist Levels can be taken at the same time at a discounted price of \$3,200. The Generalist and IT Specialist Levels can be taken at the same time at a discounted price of \$2,300. All three courses: \$4,400.

### **Discounts**

- Groups between 10 and 19 participants: 15%
- Groups larger than 19 participants: 20%
- Organizations with less than 20 employees: 15%
- Non-affiliated individuals: 20%
- Federal employees: 15%
- Multiple courses (2 or 3): 15%
- Discounts cannot be combined.

Questions? Please contact:

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