



Data Center Energy Practitioner (DCEP)

Summary Program Description

November 15, 2024

Introduction

This summary provides 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 of the DCEP Program is to raise the standards of those involved in data center energy assessments to accelerate energy savings. 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 (DCEPs) by listing their names and contact information at <u>http://datacenters.lbl.gov/DCEP</u> and issuing certificates, but it 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: the Training track (training only) and the Certificate track (training + exam). Table 1 lists the required and recommended pre-qualifications.

Program Levels

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

Data Center Profiler (DC Pro) Tool and System Tools

DOE has developed energy software for data centers to evaluate major data center systems. These tools are an integral part of the DCEP Program. The system tools include the Air Management Tool, the IT Equipment Tool, and the Electrical Tool.

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

Table 1: DCEP	Program p	pre-qualifications.
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Exam/Test

All Certificate Track candidates must complete one, two, three, or four exams (depending on course selections) with multiple-choice questions and 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. Contact information is provided at http://datacenters.lbl.gov/DCEP

Training Fees

- Generalist \$1,300
- HVAC Specialist \$2,400
- IT Specialist \$1,400
- Electrical Specialist \$1,500

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, 3, or 4): 15%
- Discounts cannot be combined.

Questions? Please contact:

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