



Data Center Energy Practitioner (DCEP)

Program Description

September 8, 2017

Introduction

The purpose of this 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. For information on the overall DCEP Program, please visit the DCEP website at Lawrence Berkeley National Laboratory (LBNL): datacenters.lbl.gov/DCEP

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, the Program will recognize them as Data Center Energy Practitioners (DCEP) by listing their names and contact information on the website given above 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). The Certificate track requires that a candidate meets both prequalification and training requirements and passes the exam. For the eligibility requirements and exam, 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") address HVAC energy opportunities using the in-depth Air Management Assessment Tool.

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. For more information on the tools, please visit datacenters.lbl.gov/Tools

Level	Prequalification (Certificate Track)	Training (Both Tracks)	Exam/Test (Certificate Track)
<p>1: Generalist</p> <p>High-level knowledge in HVAC, Electrical, and IT-Equipment</p>	<p><u>One</u> of the following:</p> <p>2-year technical degree with 2 yrs verifiable Data Center design/operation experience</p> <p>2-year degree with 4 yrs verifiable Data Center design/operation experience</p> <p>5 yrs verifiable 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>2-hour open-book exam/test</p>
<p>2: HVAC-Specialist</p> <p>In-depth knowledge in HVAC</p>	<p>Level 1 training</p> <p>Plus <u>one</u> of the following:</p> <p>4-year technical degree with 3 yrs verifiable Data Center design/operation experience</p> <p>2-year technical degree with 6 yrs verifiable Data Center design/operation experience</p> <p>10 yrs verifiable Data Center design/operation experience</p>	<p>2-day training including the Air Management Assessment Tool</p>	<p>3-hour open-book exam/test</p>

Table 1: DCEP Program Requirements.

Exam/Test

All Certificate Track candidates must complete one or two open-book exams 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. 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. The names of successful candidates will be posted on the DCEP website: datacenters.lbl.gov/DCEP

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 delivering the training. For each event, the contact information can be found on datacenters.lbl.gov/dcep under Training Calendar.

The fee for the Generalist Level is \$1,175 and the fee for the HVAC-Specialist Level is \$2,175. Both Levels can also be taken at the same time at a discounted price of \$2,900. For groups, there are two discounts available. For groups between 10 and 20 participants, the discount is 15%. For groups larger than 20, the discount is 20%.

Questions? Please contact:

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