

Data Center Energy Practitioner (DCEP): Program Description

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Introduction

The purpose of this program description is to provide information about the US Department of Energy's (DOE) DCEP Program; the target audience is those interested in participating in the Program. For information on the overall DCEP Program, please visit the DOE DCEP website at:

http://www1.eere.energy.gov/industry/saveenergynow/cep_program.html

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

To participate in the DCEP Program, a candidate must complete and submit an application and an application fee to DatacenterDynamics (in the US) www.datacenterdynamics.com/training/course-types/doe-certified-energy-professional or CNet Training (outside the US)

<http://www.cdcdp.com/dcep.php> 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.

DC Pro Profiler and Assessment Software Tools

Energy Assessment Tools for data centers are currently being developed by DOE under the Save Energy Now program for evaluating major data center systems. These tools are an integral part of the DCEP Program. For more information on the DC Pro tools, please visit the DOE website at:

http://www1.eere.energy.gov/industry/saveenergynow/dc_pro.html

Program Levels

The Foundational Course has two levels. The Level 1 Practitioners ("Generalists") will be expected to have a good understanding of all data center disciplines (HVAC, Electrical, and IT-equipment) for providing broad recommendations based on the high-level DC Pro Profiling Tool. The Level 2 Practitioners ("Specialists") address energy opportunities using one or several of the in-depth DC Pro System Assessment Tools covering the same three data center disciplines. The fee for the Generalist Level is about \$800 and the fee for the Specialist Level is \$1200. The Generalist and HVAC-Specialist Programs are being offered now and the IT-Specialist Program is expected to be available mid 2012.

A separate short Current Concept course is required every three years to cover changing technologies, which is especially critical in the fast-moving data center industry. A prerequisite for taking this course is the successful completion of the Foundational Course. The fee for the Current Concept course is TBD.

Level	Prequalification (Certificate Track)	Training (Both Tracks)	Exam/Test (Certificate Track)	Current Concept (Certificate Track)
1 (Generalist) High-level knowledge in HVAC, Electrical, and IT-Equipment	<u>One</u> of the following: 4-year technical degree with 3 yrs verifiable DC design/operation experience 2-year technical degree with 6 yrs verifiable DC design/operation experience 10 yrs verifiable DC design/operation experience	<u>Obligatory</u> 1-day training including the DC Pro Profiling Tool and a Case Study Study guide with study references will be available	<u>Obligatory</u> 3-hour open-book exam/test Waiting period of 180 days to retake exam if failed	<u>All</u> of the following every 3 years Accumulation of 4 credits; given for a number of activities [TBD], including DOE Assessments Current Concept course including DC Pro Tool Updates
2 (HVAC-Specialist) In-depth knowledge in HVAC In-depth training in IT Equipment is expected to be available mid 2012	<u>All</u> of the following: Passing score on the Level 1 exam 4-year technical degree with 3 yrs verifiable DC design/operation experience <u>or</u> 4-year non-technical degree with 5 years verifiable DC design/operation experience PE, CEM, or CDCDP	<u>Obligatory</u> 2-day training including applicable DC Pro Assessment Tools and a Case Study Study guide with study references will be available	<u>Obligatory</u> 3-hour open-book exam/test Waiting period of 180 days to retake exam if failed	<u>All</u> of the following every 3 years Accumulation of 8 credits; given for a number of activities [TBD], including DOE Assessments Current Concept course including DC Pro Tool Updates

Table 1: DCEP Program Description

Exam/Test

All Certificate Track candidates must complete one or two 3-hour 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 80%. There is a waiting period of 180 days to retake the exam(s). Participants who pass the exam(s) will be designated DCEP at either Level 1 or Level 2. Again, their names will be posted on the DOE DCEP website: http://www1.eere.energy.gov/industry/datacenters/dc_cep.html

Questions?

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