

Data Center Energy Practitioner (DCEP): Program Description

April 2011

Introduction

The purpose of this program description is to provide information about DOE's DCEP program; the target audience is those interested in participating in the program. For information on the overall DCEP program, please visit the DOE 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 issuing a certificate, 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. 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 an overview of the eligibility requirements and exam, see Table 1. **Note that the Certificate Track is the only option available for the June 12-13, 2011 training/exam event.**

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. **Note that the Generalist Level is the only option available for the June 12-13, 2011 training/exam event. The training and exam fees have been waived by the 7x24 Exchange.**

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 exam/test Waiting period of 6 months to retake 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 Complete training webcasts for DC Pro Tool Updates
2 (Specialist) In-depth knowledge in HVAC In-depth training in Electrical and IT-Equipment may be offered in 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, CDCDP, or equivalent program	<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 exam/test Waiting period of 6 months to retake 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 Complete training webcasts for DC Pro Tool Updates

Table 1: DCEP Program Description: Overview

Exam/Test

All Certificate Track candidates must complete one or two 3-hour exams with multiple-choice questions with a mix of problem solving and knowledge questions. The result is either Pass or Fail. A passing score is to be determined but the target passing score is 70%. Participants who pass the exam(s) will be designated “DCEP” at either Level 1 or Level 2. Their names will be posted on the following DOE webpage: http://www1.eere.energy.gov/industry/datacenters/dc_cep.html

Questions?

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