DCEP Generalist Training

Times indicated below may vary slightly dependent on the location of the training – please check with the training provider

7:50 **Registration (10 minutes)**

8:00 **1. Generalist Training Introduction (30 minutes)**
- Objectives
- Overview
- Resources

8:30 **2. Data Center Profiler (DC Pro) Overview (40 minutes)**
- Introduction to Benchmarking and PUE
- Overview of DC Pro
- Introduction to PUE Estimator

9:10 **3. IT Equipment (40 minutes)**
- IT Equipment Energy Use
- Provisioning and Minimizing Waste
- Best Practices

9:50 **Break (10 minutes)**

10:00 **4. Air Management (60 minutes)**
- Environmental Specifications and Metrics
- Airflow and Temperature Management
- Best Practices

11:00 **5. Cooling Systems (60 minutes)**
- DX and Chilled-Water Systems
- Liquid-Cooled Systems
- Best Practices

12:00 **Lunch (60 minutes)**

1:00 **6. Electrical Systems (50 minutes)**
- Causes of Energy Inefficiencies
- Electrical Power Chain
- Best Practices

1:50 **7. Assessment Process Manual (20 minutes)**
- DCEP Assessment Process Manual
- DCEP Assessment Process

2:10 **Break (10 minutes)**

2:20 **8. Data Center Profiler (DC Pro) Case Study (40 minutes)**
- Input Steps
- Results
- Abbreviations and Acronyms

3:00 **Exam (60 minutes)**

4:00 **End of Generalist Training/Exam**

DCEP IT-Specialist Training

Times indicated below may vary slightly dependent on the location of the training – please check with the training provider

7:50 Registration (10 minutes)

8:00 9. IT Specialist Training Introduction (30 minutes)
- Objectives
- Agenda and Course Material
- Resources

8:30 10. IT as Basis for Data Centers (40 minutes)
- Data Center History
- Enterprise IT Architecture
- The Laws of Nature

9:10 11. Energy Terms and Metrics (30 minutes)
- Energy Math
- Power and Density
- Performance Metrics

9:40 Break (10 minutes)

9:50 12. IT Asset Performance (40 minutes)
- IT Asset Performance
- Energy Efficiency and Business Priorities
- Cost Implications of Poorly Utilized Assets

10:30 13. IT Equipment Energy Usage and Best Practices (50 minutes)
- IT Equipment Types and Anatomy
- Energy Use Patterns of IT Equipment
- Things that Impact IT Device Energy Use and Best Practices

11:20 Lunch (60 minutes)

12:20 14. Predicting and Measuring Energy Usage (70 minutes)
- Predicting Energy Usage
- Tools and Techniques
- Measuring/Modeling Energy Usage

1:30 15. Controlling IT Equipment Energy Usage; Remediation, Mitigation (80 minutes)
- Underutilization and Server Waste
- IT Equipment Refresh
- IT Power Management and Policies

2:50 Break (10 minutes)

3:00 16. Winning Approval and Executing IT Energy Efficiency Projects (60 minutes)
- Energy Performance as Indicator of Asset Performance
- Benefits/Outcomes of Energy Improvement
- Articulating Value

4:00 Exam (60 minutes)

5:00 End of IT Specialist Training/Exam