Course : Green Data Center, optimizing your energy performance

Practical course - 2d - 14h00 - Ref. GAC
Price : 1410 € E.T.

★★★★⯪ 4,4 / 5

At the end of this course, you'll be able to identify the key areas for reducing a data center's power consumption, and implement solutions for improving energy and environmental performance.

Teaching objectives

At the end of the training, the participant will be able to:

- ✔ Optimizing Green IT projects
- ✔ Take stock of energy and environmental performance
- ✔ Choosing the right IT solutions
- ✔ Select infrastructure solutions

Intended audience
CIOs, data center managers, project managers.

Prerequisites
No special knowledge required.

Practical details
Exercise
Case studies, practical work, feedback

Course schedule

1 Understanding the challenges of Green IT

- The challenge of sustainable development.
- The role of information systems in sustainable development.
- The different scopes of Green IT.

Hands-on work
Identify the various Green IT projects already deployed in your company.

PARTICIPANTS
CIOs, data center managers, project managers.

PREREQUISITES
No special knowledge required.

TRAINER QUALIFICATIONS
The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS
The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

TEACHING AIDS AND TECHNICAL RESOURCES
• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

② Understanding key data center issues

- The current fleet is undersized.
- Densification and related cooling requirements.
- The change in business model from CAPEX to OPEX.

③ Mastering the regulatory context

- European directives impacting computer hardware: EuP, RoHS, WEEE, "batteries".
- Legal requirements for data centers in Europe.
- Legal obligations for data centers in France.
- Voluntary initiatives: code of conduct, etc.

④ Measure to identify areas for improvement

- What tools (indicators, methodology, etc.) should be used to take stock?
- The main energy and environmental performance indicators for data centers: PUE, CUE, - WUE, DCcE, etc.
- Physical measurement.

Hands-on work
Calculate the PUE of a data center.

⑤ IT solutions

- Implement application governance.
- Manage the data lifecycle.
- Hierarchical data storage, deduplication.
- Consolidate and virtualize equipment.
- Choose equipment adapted to energy efficiency issues.
- Eco-labels and technical standards for selecting equipment.

Case study
Analysis of various materials using ecolabels and appropriate standards.

⑥ Infrastructure solutions

- The impact of third-party availability on energy requirements.
- Modular POD architecture.
- Spatial organization of equipment in the data center: hot aisle, cold aisle.
- Precision cooling.
- Free cooling, water cooling.

⑦ Feedback

- Study of feedback from companies that have already implemented these solutions

Dates and locations

REMOTE CLASS
2026 : 18 June, 2 Nov.

PARIS LA DÉFENSE
2026 : 18 June, 2 Nov.