

Tytuł szkolenia: Certified Data Center Expert (CDCE®) Training with Exam

Kod szkolenia: HK260S

Wprowadzenie

The five-day course is designed to prepare participants to analyze a give business case and preform technical evaluation for a project plan and a set of designs for implementation of a mission critical **Data Center**. The course also engages participants in product evaluations and demonstrates how to select equipment and develop equipment test scripts (**IET**) and integradet performance and validation testing (**IPVT**). **CDCE** builds uopon knowledge gained in **CDCP®** and **CDCS®** courses.

Adresaci szkolenia

The primary audience for this course is any IT, facilites or data center professional, who are involved design/bulid, renovation or relocation of a mission critical data center.

Participants must hold a valid CDCS certificate (HK259S) in order to register for the CDCE class.

Cel szkolenia

After completion of the course, the attendee will be able to:

- Choose an optimum site for mission critical Data Centers based on current and future needs.
- Describe all components important for hi-availability in a Data Center and how to effectively setup the Data Center.
- Understand the design lifecicle stages for Data Center bulid projects and the phases involved in project execution.
- Analyze a business case and develop the project brief that is aimed at fulfilling the business resilience, site selection and design requirements for a fit-for and suitably redundant mission critical Data Center.
- Conduct technical level design reviews for a given set of preliminary design documents and preform a technical compliance audit of a set of final development documents compliant to TIA standards.
- Understand how to read electrical Single Line Diagrams (SLD) and other related design documents, and be able to defect the most common design mistakes.
- Evaluate product datasheets and discrimate among technical specification and funcional requirements for suitability againts a set of given design requirements for a given site and business case.
- Correlate equipment specification to site design constraints, such a room size and space, floor-loading capacity, cooling capacity, power quality conditions and maintenance requirements while ensuring equipment selection does not compromise desired tier level compliance.
- Develop Individual Equipment Test (IET) and Integrated Performance Validation Test (IPVT) plans for a mission critical Data Center.
- Develop guidelines and checklists for hand-over of a mission critical Data Center facility, its architectural, mechanical, electrical IT elements and documentation.
- Develop retirement plans for decommissioning and hand-over of an aged mission critical Data Center facility.

Czas i forma szkolenia

• 35 godzin (5 dni x 7 godzin), w tym wykłady i warsztaty praktyczne.

Plan szkolenia

Data Center Life Cycle

a. Data Center lifecycle stages and phases



b. Exercise: Stage/Phase/Milestone/Document mapping

Design Preparation

- a. Creation of a SON Statement Of Need
- b. Technology review
- c. Conceptual sizing
- d. How to calculate for computer room space
- e. How to calculate facility space
- f. How to calculate incoming power
- g. Exercise: Conceptual sizing bulding and power
- h. Analyzing capacity of existing facility
- i. Analyzing investment options
- j. Site selection
- k. Permits and approvals
- I. Exercise: Site selection
- m. Conceptual design
- n. Budget and project timeline
- o. Business case preparation
- p. Project delivery structure
- q. Project management oprions
- r. Project manager and team

Design Planning

- a. OSRA Operational Systems Requirement Analysis
- b. TFRA Technical Facilites Requirement Analysis
- c. Operational and maintenance review
- d. RFP Request For Proposal process
- e. Vendor selection

Design Development

- a. Project Planning
- b. Design Development
- c. PDR Peliminary Design Reviev
- d. Equipment selection
- e. FDR/V Final Design Review/Validation
- f. Exercise: Full design validation of power, cooling, floor plans, fire suppresion
- g. Design Freeze and LLIP
- h. Creation of constrution documents
- i. BOM/BOQ Bill Of Material / Bill Of Quantity
- j. Exercise: Equipment selection
- k. Exercise: Equipment selection

Acquire

- a. Requirements of Purchase Orders
- b. Shipping Terms
- c. FWT/FAT Factory Witness Test / Factory Acceptance Test
- d. Sequencing
- e. Incoming Goods Inspection and Handling
- f. Asset management

Construct

- a. Temporary Essential Services
- b. Erection of the building
- c. Pernament Essential Services
- d. Building Inspection
- e. Snag List
- f. COF Certificate Of Fitness

Fit-Out

a. Fit-Out



- b. Buliders Cleaning
- c. As-Built Drawings

Test & Commissioning

- a. IET Individual Equipment Test
- b. IPVT/IST Integrated Performance Verification Test / Integrated Systems Test
- c. Common mistakes with IET/IPVT
- d. Deep Cleaning
- e. Exercise: IET/IPVT scripting

Hand-Over

- a. Facility Hand-Over requirements and documents
- b. PCC Practical Completion Certificate
- c. DLP Defect Lability Period
- d. Defect Managemet
- e. ICT Systems Instalation
- f. ICT Systems Testing
- g. Hand-Over/DLP Expiry
- h. FCC Final Completion Certificate

Retirement

- a. Reasons and definitions of retirement
- b. Builiding the business case and project plan
- c. Sequencing
- d. Defect Managemet
- e. Transfer of Site
- f. Demolishing of Site
- g. Legal matters
- h. FCC Final Completion Certificate

EXAM: Certified Data Center Expert