



Course	Certified Data Center Specialist
Instructor	Certified American Academy Instructor
Certificate	Certified Data Center Specialist – CDCS AAPM
Descriptions	The Certified Data Centre Specialists course, is the further step of the American Academy Data Centre Training and Certification Program, that will escalate the professional level of individual working in the data center vicinity, and with the incumbency to analyze a given business case and perform technical evaluation for a project plan and a set of designs for implementation of a mission critical Data Centre. With few exceptions, enterprises today rely on IT for the delivery of business-critical services - often directly to the end consumer. It is therefore vital that the mission critical data center is designed, maintained and operated with high availability and efficiency in mind. However, most data centers do not meet the full availability, capacity, safety or efficiency requirements that are often demanded. The Certified Data Center Specialist (CDCS) is a 3-day course designed to increase the attendees' knowledge, enabling them to be compatible sparring partners with suppliers and to be able to verify offers provided by vendors for correctness, effectiveness and efficiency. CDCS is a must have certification for professional data center managers and personnel. CDCS is a pre-requisite for individuals wishing to achieve the CDCE status of the American Academy data center professional



	certificate. The American Academy CDCS is an instructor-led course that uses a combination of presentation lectures and question and answer sessions to discuss attendees' specific needs and issues experienced in their own environment. Attendees are able to tap on the trainer's extensive experience to solve practical problems in their current environment adding tremendous value.
Objectives	After completion of the course the participant will be able to: • Understand the design life cycle of data centers and the stages involved; • Discuss in great level of detail the requirements with vendors, suppliers and contractors to ensure they meet the customer's requirement; • Verify the technical level design plans, quotes and offers proposed by vendors/contractors; • Understand levels for both the data center design/setup as well maintenance; • Understand how to measure data center energy efficiency and how to improve it. • Understand the various building considerations such as bullet proofing, mitigation of seismic activity, fire ratings and thermal stability • Understand how to build up a raised floor meeting requirements to avoid misalignment, level differences and leakage • Understand how to read a Single Line Electrical Diagram being able to identify the most common design issues made



	• Choose the correct UPS and parallel configuration, learn how to avoid classic mistakes when installing systems in parallel • Understand how to calculate battery banks enabling you to double check offered configurations to ensure it meets the customers' requirements • Understand what distance to keep to avoid EMF issues for human safety and equipment disturbances • Understand the fundamental cooling setup, CFM, Delta-T and other important factors • Understand contamination factors and limitations • Understand full details of fire suppression options, how to calculate gas content and verify installations • Understand how to measure data centre energy efficiency and how to improve it
Target Audience	The course is designed primarily audience for IT professionals who involve in the facilities or Data Centre Operations, and professional working in and around the data centre and having the responsibility to achieve and improve hi-availability and manageability of the Data Centre.
Duration	3 Days
Course Descriptions 1. The design life cycle of data centers and the stages involved 2. Vendor selection and qualification 3. Managing risk and dealing with non-compliance, public liability, legal, escalation and complaint procedures 4. Key considerations of a vendor agreement for services 5. Performance measurement and reporting 6. Verify the technical level design plans, quotes and offers proposed by	



vendors/contractors; 7. The data center design/setup and maintenance; 8. How to measure data center energy efficiency and how to improve it. 9. Various building considerations such as bullet proofing, mitigation of seismic activity, fire ratings and thermal stability 10. How to build up a raised floor meeting requirements to avoid misalignment, level differences and leakage 11. Single Line Electrical Diagram being able to identify the most common design issues made 12. The UPS and parallel configuration, learn how to avoid classic mistakes when installing systems in parallel 13. How to calculate battery banks 14. EMF issues for human safety and equipment disturbances 15. Fundamental cooling setup, CFM, Delta-T and other important factors 16. The contamination factors and limitations 17. Fire suppression options, how to calculate gas content and verify installations 18. Measuring data centre energy efficiency and how to improve it	
Case Studies	The participants will be involved in the simulations as related to the actual topics of case studies of data center management,