

HPE course number	H7G61S
Course length	3 days
Delivery modes	ILT, VILT
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Certified TIA-942 Design Consultant (CTDC) H7G61S

In this 3-day course, the participant will learn how to design an ANSI/TIA-942 compliant data center. It will provide a clear understanding of the requirements of the ANSI/TIA-942 Standard and possible implementation variations. This course is well suited for all types of data centers, be it enterprise data centers or multi-tenant, third-party data centers such as co-location, managed services, and cloud service providers.

Audience

The primary audience for this course is any professional involved in designing, building, maintaining, and operating mission-critical data centers and those who wish to attend the CTIA (Certified TIA-942 Internal Auditor) course.

Prerequisites

- Participants must possess a valid data center training certificate, such as CDCP or any other approved equivalent.
- Students will receive the latest digital copy of the ANSI/TIA-942 Standard. This is a single-user-license document, which the participant can access anytime on his/her computing device and can be printed (once). Extensive reference is made to the ANSI/TIA-942 Standard during the training. Therefore, participants are required to bring his/her computing device along for the training.

Course objectives

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

- Learn to properly comprehend and apply the ANSI/TIA-942 Standard requirements and guidelines.
- Understand the proper intent of the ANSI/TIA-942 Standard to avoid both over- and/or under-investment.
- Align the selection of redundancy levels and infrastructure investments to the business requirements.
- Understand the criteria and requirements for a high availability data center design and how to effectively establish the data center from the perspective of the ANSI/TIA-942 Standard.
- Understand how the ANSI/TIA-942 Standard relates to various worldwide standards.

Detailed course outline

Introduction to data center facilities	
About the ANSI/TIA-942	Life of the ANSI/TIA-942 Standard
	Relation to other standards
	Areas under scope
	High level redundancy definitions
	Redundancy options (N, N+1, etc.)
	Fault tolerant
	Concurrent maintainability
	Compartmentalization
	Examples of redundancy levels
Data center space planning	
Data center topologies	
Recommendations for energy efficiency	
Architectural	Site selection
	Parking
	Multi-tenant building
	Building construction
Building security and safety	Security
, , ,	• CCTV
	Staffing
	Bullet/ballistic proofing
	Lighting
	• Safety
Building and room access	Security checkpoints
	Entry lobby
	Doors and windows
	Exit corridors
	Shipping and receiving areas
Room/Area design requirements	Administrative offices
	Security office
	Operations center
	Restroom and break room
	UPS/Battery rooms
	Generator and fuel storage area
	Computer room
Electrical	Utility power
	HT/HV switch gear
	Generator and fuel supply
	LT/LV switch gear
	UPS and batteries
	• PDU
	• STS
	Grounding
	Surge protection
	• EPO
	Central power monitoring
	Load Banks
	• Testing
	Equipment maintenance

Mechanical	Environmental design
	Water cooled systems
	Air cooled systems
	HVAC control systems
	Plumbing
	Fire suppression
	Water leak detection
Telecommunications	Network topology
	Redundancy level design
	Media and connectors
	Cabling pathways
	Detailed cabling design considerations
	Administration and labeling
	Cable testing
	Data center fabrics
Exam: Certified TIA-942 Design Consultant	

Examination accredited by EXIN

Certification exams are administered at the end of the last day of training, using paper-based or online format, depending on the country in which the course is delivered. The exam is a 90-minute closed book exam, with 60 multiple-choice questions. The candidate CTIA Certified TIA-942 Internal Auditor requires a minimum of 50 correct answers to pass the exam. The certification is valid for three years after which the student needs to re-certify.

Recommended next courses

(H7G62S).

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