

Certified TIA-942 Design Consultant (CTDC) H7G61S

HPE course number	H7G61S
Course length	3 days
Delivery modes	ILT, VILT
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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.

Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training*
- Recognized by IDC for leading with global coverage, unmatched technical expertise, and targeted education consulting services*
- Key partnerships with industry leaders OpenStack®, VMware®, Linux®, Microsoft®, ITIL, PMI, CSA, and (ISC)²
- Complete continuum of training delivery options—self-paced eLearning, custom education consulting, traditional classroom, video on-demand instruction, live virtual instructor-led with hands-on lab, dedicated onsite training
- Simplified purchase option with HPE Training Credits

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
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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
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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
-

Course data sheet

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 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

CTIA Certified TIA-942 Internal Auditor (H7G62S).

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