CTLA®

NETWORK TRAINING CENTER

epi® Protecting your interests

CERTIFIED TIA-942 LEAD AUDITOR

Introduction

The CTLA® is a 3-day course designed to provide the knowledge and skills to become a lead auditor who is able to independently conduct ANSI/TIA-942 conformity audits. The course contains lectures and a variety of business cases testing the aspiring auditor for his/her auditing capabilities. Lead auditors will determine the conformity or nonconformity of a data center to the requirements of the ANSI/TIA-942. As such, the examination is one of the toughest exams in the data center industry.

Roadmap

Audience

The audience for this course is any professional who aspires to become a TIA-942 Lead Auditor. Please note that the CTLA certification does not allow the person to conduct a third-party audit and issue statements/letters/certificates unless he/she works for a TIA Accredited Licensed Certification Body and meet the other obligations as laid down in the auditor accreditation rules of TIA.

Global Accreditation & Recognition

World-wide accredited by EXIN

Prerequisites

Participants must possess:

1. A valid CTDC – Certified TIA-942 Design Consultant Certificate

   AND

2. A valid CTIA – Certified TIA-942 Internal Auditor Certificate or a valid ISO-9001 or ISO-27001 Lead Auditor Certificate

Course Benefits

After completion of the course the participant will be able to:

- ☑ Describe the ANSI/TIA-942 audit scheme
- ☑ Describe the different certification programs
- ☑ Define an ANSI/TIA-942 audit program
- ☑ Review design drawings for conformity to the standard
- ☑ Judge audit evidence to be a CAT-1, CAT-2, OFI, RFI
- ☑ Create an audit report that conforms to TIA requirements
- ☑ Review a CAR – Corrective Action Report
- ☑ Understand the requirements and process for issuing certificates
- ☑ Describe the requirements for certification maintenance

PROUD TO BE A TIA® MEMBER

Course Syllabus

- **TIA-942 Accreditation Scheme**
  - The ANSI/TIA-942 accreditation scheme
  - Standards
  - SDO – Standards Development Organization
  - TC/SC – Technical Committee / Sub Committee
  - Standards Development Process
  - Scheme Owner
  - Audit Organizations (RCB, CB, CAB)
  - Accreditation Body (AB, NAB)
  - Roles within a CB

- **Audit and Certification Process**
  - Overview of audit process
  - Initiate audit
  - Prepare for audit
  - DCDV – Data Center Design Validation
  - DCCC – Data Center Conformity Certification
  - Report writing
  - CAR – Corrective Action Report
  - Issuance of certificates
  - ANSI/TIA-942 certification for data centers
  - Certificate maintenance
  - Audit steps duration overview

- **Audit Planning**
  - The audit program
  - Planning the schedule
  - Audit preparation
  - Opening Meeting
  - Exercise: Creating an audit program, opening meeting presentation

- **Rating Levels Audit Criteria**
  - High-level audit criteria considerations
  - High-level design requirements (Architectural, Electrical, Mechanical, Telecommunication)
    - Rated-1
    - Rated-2
    - Rated-3
    - Rated-4

- **Recap on Nonconformity Classification**
  - Nonconformity classification
  - Major nonconformity
  - Minor nonconformity
  - OFI – Observation For Improvement
  - RFI – Request For Information
  - Grading of nonconformity

- **Site Location & Architectural Audit**
  - Key considerations

- **Fire Safety Audit**
  - Key considerations

- **Physical Security Audit**
  - Key considerations
  - Exercise: Review site planning, floor planning, physical security, fire safety

- **Electrical Audit**
  - Key considerations
  - Exercise: Review SLD – Single Line Diagram

- **Mechanical Audit**
  - Key considerations
  - Exercise: Review SLPD – Single Line Piping Diagram, fuel supply

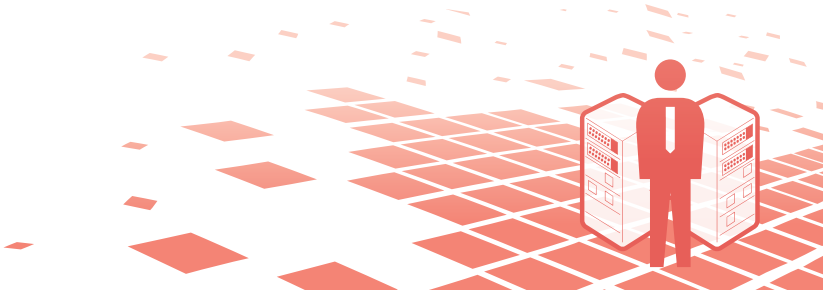
- **Telecommunications Audit**
  - Key considerations
  - Exercise: Network routing review

- **Closing Meeting**
  - Closing meeting
  - Exercise: Closing meeting presentation

- **Preparing and Distributing the Audit Report**
  - Audit report requirements
  - Audit report distribution
  - Retention of documents
  - Exercise: Creation of audit report

- **CAR Management**
  - Follow-up action on audit report
  - History log of nonconformity
  - Criteria for issuing a conformance certificate
  - Review of a CAR
  - Exercise: Review CAR response

- **Certification and Certification Maintenance**
  - The full audit cycle
  - Surveillance audit
  - Recertification audits
  - Issuing of the TIA-942 DCDV/DCCC Certificate
  - Requirements of the certificate
  - Registration of the certificate



Delivery Structure and Methods

The CTLA® course is lectured by an EPI Certified Instructor using a combination of lectures, question-and-answer sessions and business case studies simulating an audit engagement.

The CTLA® course is approximately 80% hands-on and 20% lecture. Participants are able to tap into the trainer's extensive audit experience to enable them to understand how to effectively and efficiently run an audit, thus adding tremendous value.

The CTLA® course is available in the following delivery methods:

- ILT – Instructor Led Training
- VILT – Virtual ILT

Business Case and Examination

To be awarded the CTLA®, the candidate must meet two criteria. The first is the successful completion of the business cases during the training, the result will be available within 14 days. The second is a 60-minute closed-book exam, with 40 multiple-choice questions, whereby 32 correct answers are required to pass.

Certification

Candidates who successfully complete the business case and pass the exam will receive the official 'Certified TIA-942 Lead Auditor' certificate. The CTLA® certificate is issued for the ANSI/TIA-942 version current at the time, which the candidate tested for. The certificate itself does not expire and stays relevant for the stated ANSI/TIA-942 version, and is subject to auditors regulation as per TIA.

Global Accreditation & Recognition

The CTLA® course is accredited by EXIN, which is a global, independent and not-for-profit accreditation and examination provider. EXIN's mission is to improve the quality of the IT and data center sectors, the proficiency of IT and data center professionals and the IT users, by means of accreditation of course material as well as independent examination and certification.

Recommended Next Course

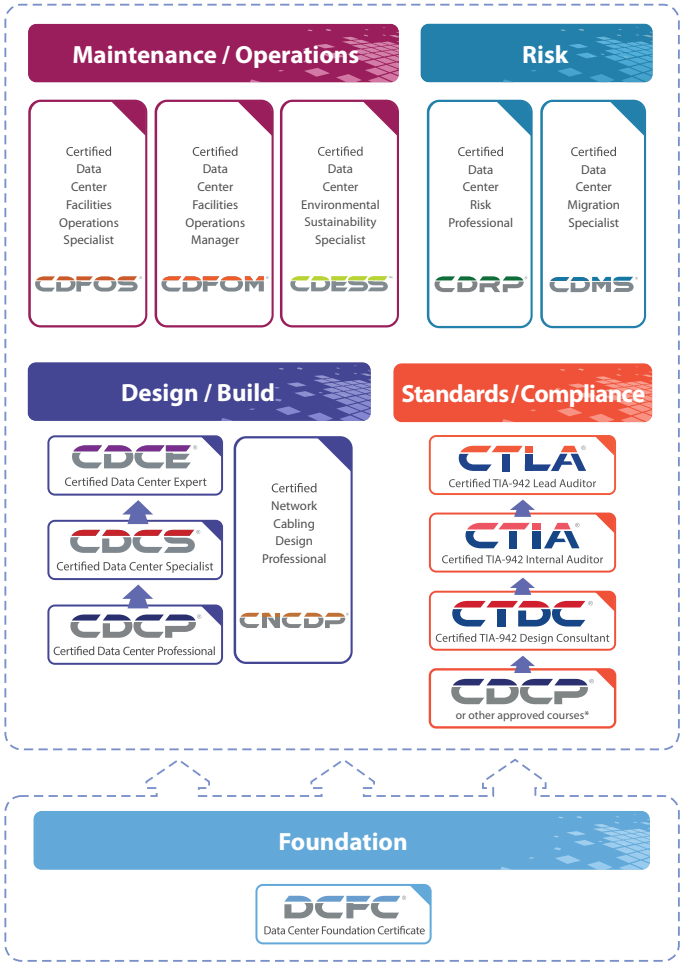
To further extend your skills, we recommend the CDCS® and CDCE® training. These courses provide participants with in-depth knowledge of the data center design/build and will add great value to a person who wants to be a premier expert in the niche area of data center infrastructure design/build, leading/consulting on data center projects.

Course Schedule

Our courses are available in over 60 countries across all continents. For a comprehensive course schedule, visit the EPI corporate website at www.epi-ap.com or contact your local authorized reseller/partner.

EPI Data Center Training Framework©

The **EPI Data Center Training Framework©** provides a structured course curriculum for individuals working in and around data center facilities and data center operational management. It addresses the various disciplines required to design and manage a high-availability, efficient data center. EPI's data center course curriculum is not only the first in the world, it is also by far the largest in the industry. Many companies have specified these courses as prerequisites for their staff working in and around the data center and use them as part of their career planning initiatives. Recognized globally, these certifications add value to both companies and individuals.



The Company

EPI is a data center specialist company of European origin operating world-wide in over 60 countries through direct operations and a large partner network. EPI offers an extensive range of data center services on auditing, certification and training. EPI's focus is on mission-critical, high-availability environments. Established in 1987, EPI has developed an international reputation for delivering high quality technical expertise, with flexible and innovative services, techniques and methodologies.

All our services are aimed at helping our customers to:

- Increase **Availability** of their mission-critical infrastructure
- Improve **Efficiency**, **Effectiveness** and **Manageability**
- **Minimise risk** of business interruption

Our Clients share a common need to protect their valuable data, run their mission-critical infrastructure efficiently and to be protected on a 24 x 7 basis. By protecting the interests of our customers, EPI is committed to an intensive program of comprehensive services development backed by engineering and support excellence.

Quality Systems and Procedures have always been at the heart of every stage of our service delivery to ensure consistent and high quality services. We are known for our thoroughness, flexibility and responsiveness. We focus on providing servicess that fit each organization and each project with a drive to deliver quality on time, every time.

Let us put our expertise to work for you!

Data Center Services

Audit & Certification

• Data Centre Standards
- ANSI/TIA-942
- DCOS®
- EN 50600
- ISO/IEC TS 22237

• Other International Standards
- ISO 9001
- ISO 14001
- ISO 14644
- ISO/IEC 20000-1
- ISO 22301
- ISO/IEC 27001
- ISO/IEC 27701
- ISO 37001
- ISO 45001
- ISO 46001
- ISO 50001
- PCI DSS

• Singapore Standards
- SS 507
- SS 564
- SS 584
- DTPM
- CBPR
- PRP

Professional Training & Certifications

- Data Centre
  DCFC®, CDCP®, CDCS®, CDCE®, CNCDP®
  CDFOS®, CDFOM®, CDESS®, CDRP®, CDMS®,
  CTDC®, CTIA®, CTLA®

- IT
  CITO®, CITM®, CITD®

Non-Certification Training

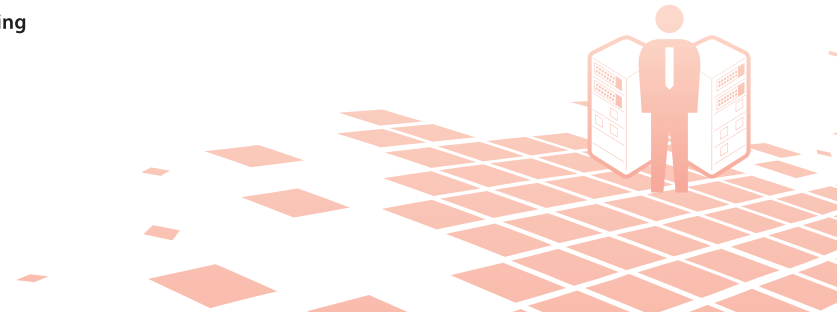
- Digital Transformation

Frameworks

- IT&DCF® - IT & Data Centre Framework
- DCCF® - Data Centre Competence Framework
- DCTF® - Data Centre Training Framework
- ITTF - IT Training Framework

Standard

- DCOS® - Data Centre Operations Standard



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