Tytuł szkolenia: Certified TIA-942 Design Consultant (CTDC)

Kod szkolenia: H7G61S

Wprowadzenie

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 asco-location, managed services, and cloud service providers.

Adresaci szkolenia

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.

- Participants must possess a valid data center training certificate, such as CDCPor 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.

Cel szkolenia

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.

Czas i forma szkolenia

- 21 godzin (3 dni x 7 godzin), w tym wykłady i warsztaty praktyczne.

Plan szkolenia

Introduction to data center facilities
About the ANSI/TIA-942

a. Life of the ANSI/TIA-942 Standard
b. Relation to other standards
c. Areas under scope
d. High level redundancy definitions
e. Redundancy options (N, N+1, etc.)
f. Fault tolerant
g. Concurrent maintainability
h. Compartmentalization
i. Examples of redundancy levels

Data center space planning

Data center topologies
Recommendations for energy efficiency
Architectural

a. Site selection
b. Parking
c. Multi-tenant building
d. Building construction

Building security and safety

a. Security
b. CCTV
c. Staffing
d. Bullet/ballistic proofing
e. Lighting
f. Safety

Building and room access

a. Security checkpoints
b. Entry lobby
c. Doors and windows
d. Exit corridors
e. Shipping and receiving areas

Room/Area design requirements

a. Administrative offices
b. Security office
c. Operations center
d. Restroom and break room
e. UPS/Battery rooms
f. Generator and fuel storage area
g. Computer room

Electrical

a. Utility power
b. HT/HV switch gear
c. Generator and fuel supply
d. LT/LV switch gear
e. UPS and batteries
f. PDU
g. STS
h. Grounding
i. Surge protection
j. EPO
k. Central power monitoring
l. Load Banks
m. Testing
n. Equipment maintenance

Mechanical

a. Environmental design
b. Water cooled systems
c. Air cooled systems
d. HVAC control systems
e. Plumbing
f. Fire suppression
g. Water leak detection

Telecommunications

a. Network topology
b. Redundancy level design

c. Media and connectors
d. Cabling pathways
e. Detailed cabling design considerations
f. Administration and labeling
g. Cable testing
h. Data center fabrics

Exam: Certified TIA-942 Design Consultant