

一生懸命にEXIN CDCSソフトウェア &合格スムーズ CDCS日本語学習内容 | 素敵なCDCS試験対策



さらに、Jpexam CDCS ダンプの一部が現在無料で提供されています: https://drive.google.com/open?id=13BpD6rVkY8axI5a9d1n-z_YKrSrgVHj4

CDCS 学習教材自体については、学習者が学習教材をさまざまな角度から効率的に学習できるように複数の機能を強化します。たとえば、試験を刺激する機能は、受験者が実際の CDCS 試験の雰囲気とペースに精通し、予期しない問題の発生を回避するのに役立ちます。簡単に言えば、当社の CDCS トレーニングガイドは品質とサービスを優先し、EXIN お客様に CDCS 試験に合格するための新しい体験と快適な気持ちをお届けします。

EXIN CDCS 認定試験の出題範囲:

トピック	出題範囲
トピック 1	<ul style="list-style-type: none">データセンターの環境配慮と効率: このセクションでは、データセンター運用における環境要因への対応と効率化の促進に関するデータセンター専門家の能力を評価します。データセンター管理者やエンジニアなどの対象者は、エネルギー効率、冷却管理、持続可能な実践を強化する対策を特定して実装する能力がテストされます。

トピック 2	<ul style="list-style-type: none"> データセンターのライフサイクルと標準: 試験のこのセクションでは、データセンターの専門家のスキルを測定し、計画と設計から実装と廃止まで、データセンターのライフサイクルに関係するさまざまな段階をカバーします。
トピック 3	<ul style="list-style-type: none"> データセンターの設計と実装: このモジュールの試験では、データセンターの設計と実装を担当する Exin データセンタープロフェッショナルの知識を評価します。受験者は、スケーラビリティ、冗長性、セキュリティの考慮など、効率的なデータセンターレイアウトを作成するための重要な原則を学習します。

>> CDCSソフトウェア <<

CDCS日本語学習内容 & CDCS試験対策

Jpexamお客様にさまざまな種類のCDCS練習用トレントを提供して学習させ、知識の蓄積と能力の向上を支援したいと考えています。また、CDCS学習ガイドを使用して、すべてのユーザーの質問に最短時間で専門家が回答できることを保証します。もう1つ、散発的な時間を最大限に活用して知識と情報を吸収するお手伝いをします。つまりEXIN、CDCS試験対策を目指している他の類似企業と比較して、当社の製品のサービスと品質は、EXIN EPI Certified Data Centre Specialistお客様と潜在的なクライアントから高く評価されています。

EXIN EPI Certified Data Centre Specialist 認定 CDCS 試験問題 (Q40-Q45):

質問 # 40

What is the main reason to install Earth Leakage protection?

- A. Protection of ICT equipment against high-frequency noise currents
- B. Improvement of the data center grounding/earthing system
- **C. Protection of human lives**
- D. Protection against lightning strikes

正解: C

解説:

Earth Leakage Protection is primarily installed to protect human lives by detecting and disconnecting power when a fault current flows to the ground. This type of protection is essential to avoid electrical shock hazards that could occur when insulation fails, or equipment is improperly grounded.

Detailed Explanation:

Earth leakage currents can occur due to insulation faults or accidental contact with live parts. Earth Leakage Protection systems, such as Residual Current Devices (RCDs), quickly detect these faults and disconnect the circuit to prevent harm to personnel. This is especially crucial in environments like data centers where high-powered equipment is continuously running and any electrical fault can pose significant safety risks.

EPI Data Center Specialist References:

EPI emphasizes that human safety is paramount in data center operations. Proper grounding and leakage protection are fundamental safety measures, and EPI guidelines align with this focus, underscoring the importance of protecting personnel from electrical hazards through appropriate safety systems.

質問 # 41

You are working with a customer who requires a guarantee that THDi levels coming from the UPS should not exceed more than 3% THDi. Furthermore, he wants to run a power-efficient data center. The UPS has a 6- Pulse SCR/Thyristor based rectifier. The current load on the UPS is approximately 80%. The customer indicates they are not expecting any changes on the ICT infrastructure for the next 3 years.

What should you recommend?

- **A. Install an active harmonic filter on the UPS**
- B. Nothing, the UPS will be able to take care of the right levels of THDi
- C. Install an isolation transformer rated at K13 or K20
- D. Install a passive harmonic filter on the UPS

正解: A

解説:

Given the customer's requirement to limit Total Harmonic Distortion (THDi) to below 3% and the presence of a 6-pulse SCR/Thyristor-based rectifier, an active harmonic filter is the best solution. A 6-pulse rectifier typically generates higher harmonic distortion, often exceeding 3%, especially under substantial loads like 80%. An active harmonic filter dynamically monitors and compensates for harmonic distortion, effectively reducing THDi and supporting a more power-efficient operation, aligning with the customer's energy efficiency goals.

Detailed Explanation:

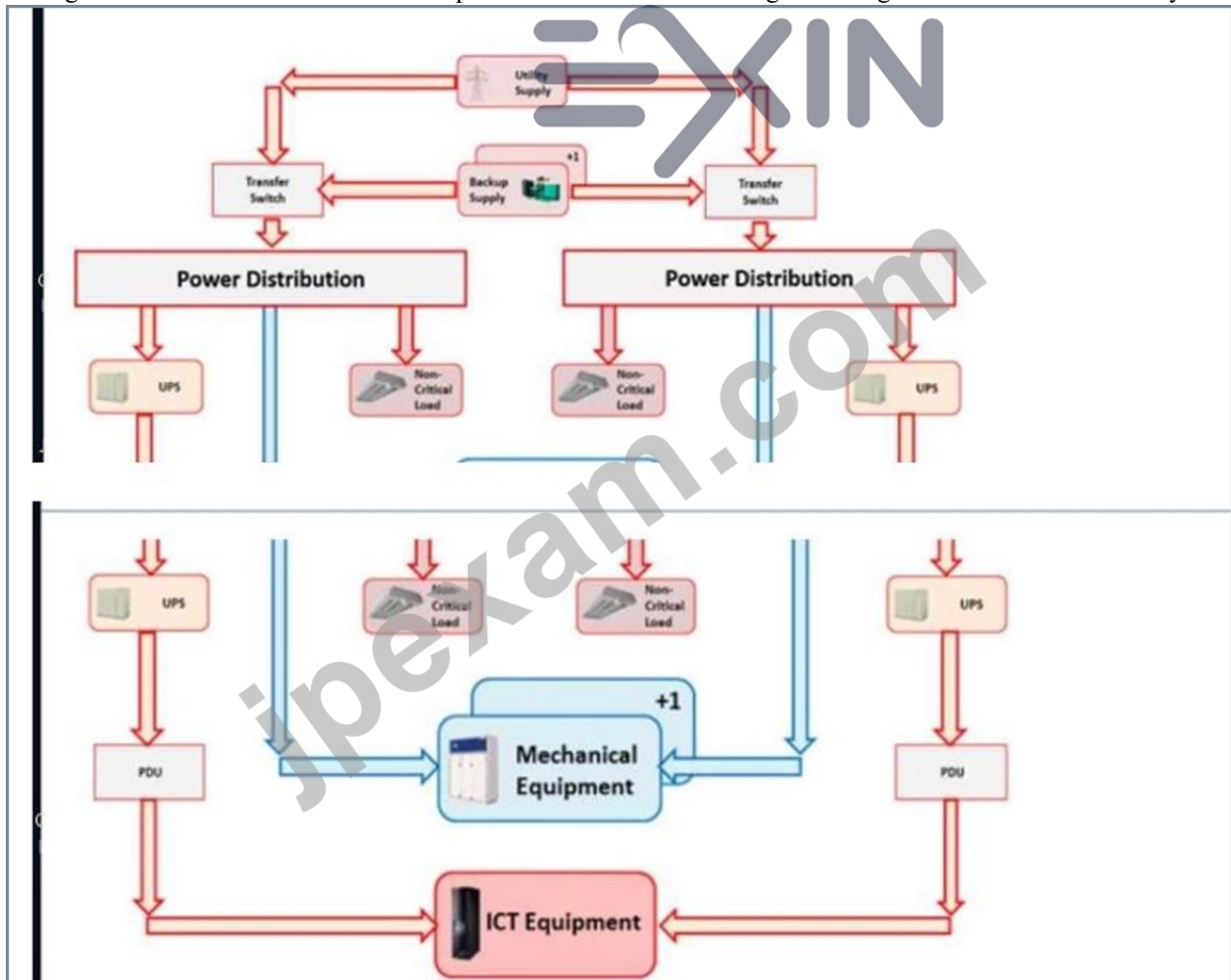
Passive harmonic filters can reduce harmonics but are less effective at maintaining low THDi levels under varying loads. Active filters offer real-time correction and can achieve lower THDi levels than passive filters, especially in systems with fluctuating loads or where strict harmonic limits are required. Installing an active harmonic filter will ensure compliance with the specified THDi limits and optimize power quality.

EPI Data Center Specialist References:

EPI guidance on power quality management recommends active harmonic filters for environments where strict THDi levels are necessary. Active filters offer better control over harmonic levels, supporting both compliance and operational efficiency.

質問 # 42

The logical overview of the data center looks as pictured. To what TIA-942 Rating is this design made based on electrical only?



- A. Rating - 1
- B. Rating - 2
- C. Rating - 4
- D. Rating - 3

正解: C

解説:

The electrical design shown in the diagrams represents a TIA-942 Rating-4 configuration. This design includes full redundancy and fault tolerance, as demonstrated by the dual power distribution paths from the utility supply to the critical loads. Each power distribution path is equipped with its own UPS, ensuring that the ICT equipment and mechanical equipment have uninterrupted power in case of any single point of failure.

Detailed Explanation:

A Rating-4 data center requires two independent power paths that are fully redundant and capable of supporting the load independently. In the diagrams:

There are dual feeds from the utility supply, each going through separate transfer switches and power distribution paths.

Both paths have backup sources (+1) and serve critical components through separate UPS systems, providing a completely redundant setup.

The design also includes redundant paths to the mechanical equipment and ICT equipment, which further indicates the fault-tolerant characteristics of a Rating-4 infrastructure.

This setup allows for concurrent maintainability and ensures that no single failure in power distribution or UPS can impact the data center's operation, which is characteristic of the highest Tier/Rated-4 classification.

EPI Data Center Specialist References:

EPI guidelines confirm that TIA-942 Rating-4 requires full redundancy and fault tolerance for electrical infrastructure, ensuring continuous operation even during maintenance or failure events. This design meets all those requirements, thus aligning with Rating-4 standards.

質問 # 43

What is the calculation for the desired attenuation factor for shielding material?

- A. A is Attenuation
 M is the maximum acceptable value
 R is the real value measured
- B. You do not have to calculate the attenuation factor for shielding material as it always has the same attenuation
- C. $A = 20 \log (M / R)$
Where
 A is Attenuation
 M is the maximum acceptable value
 R is the real value measured
- D. $A = 20 \log (R / M)$
Where
 A is Attenuation
 R is the real value measured
 M is the maximum acceptable value
- E. $A = M / R$
Where

正解: A

解説:

The attenuation factor for shielding material is typically calculated using the formula $A = 20 \log (R / M)$. This equation provides the attenuation in decibels (dB), where R represents the measured electromagnetic field strength, and M is the maximum acceptable level. The logarithmic scale helps quantify how much the shielding reduces EMF levels relative to the maximum allowable value.

Detailed Explanation:

This formula calculates attenuation by comparing the measured value with the acceptable threshold, with the result expressed in decibels. A higher attenuation indicates more effective shielding material, essential for environments requiring robust EMF management.

EPI Data Center Specialist References:

EPI standards include the use of logarithmic formulas to evaluate attenuation levels, ensuring that shielding materials provide adequate reduction in EMF to protect sensitive equipment within data centers.

質問 # 44

What is the minimum requirement for the power feeds to the building for a Rated-3 data center based on the ANSI/TIA-942 standard?

- A. Two feeds coming from two different substations, one power company is acceptable

- B. Two feeds entering the data center building from one substation
- C. Two feeds coming from two different substations, one power company is not acceptable
- D. One feed from one substation split over two separated distribution boards in separate rooms

正解: A

解説:

The minimum requirement for power feeds to a Rated-3 data center according to ANSI/TIA-942 is to have two independent power feeds, which can come from two different substations provided by the same power company. This ensures redundancy and concurrent maintainability, as each feed can support the load independently during maintenance or failure of the other.

Detailed Explanation:

The separation by two substations ensures resilience in case of a localized outage or substation maintenance, aligning with Rated-3 requirements for uninterrupted operation. ANSI/TIA-942 permits these feeds from a single utility provider as long as they are supplied from distinct substations.

EPI Data Center Specialist References:

EPI underscores the importance of dual power feeds from separate substations for Rated-3 facilities, highlighting that the ability to draw from different substations aligns with redundancy requirements for high availability.

質問 # 45

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最近、EXIN問題集を提供するサイトは多くなっていますから、あなたは試験を準備するとき、復習の方法に悩んでいます。我々のCDCS資料は弊社の専門家たちによって開発されて、あなたの試験への合格を助けることができます。それに、CDCS問題集はもう更新されましたので、受験生たちの不安を削除することができます。

CDCS日本語学習内容: https://www.jpexam.com/CDCS_exam.html

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BONUS!!! Jpexam CDCS ダンプの一部を無料でダウンロード: https://drive.google.com/open?id=13BpD6rVky8axl5a9d1n_z_YKrSrgVHj4