

BICSI

Exam Questions DCDC-002

BICSI Data Center Design Consultant - DCDC



NEW QUESTION 1

CORRECT TEXT

What are the equipment clearance/access requirements when designing the door openings and loading dock areas for a data center?

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Clearance requirements of 10' L x 4' W x 8' H and 7500 pounds

NEW QUESTION 2

What are the factors that affect availability?

- A. Operational Requirements
- B. Operational Availability
- C. Impact of Downtime
- D. All of the above

Answer: D

NEW QUESTION 3

According to NEB, what is the recommended rate of temperature change per hour in a data center?

- A. 36 degrees
- B. 45 degrees
- C. 54 degrees
- D. 63 degrees
- E. 72 degrees

Answer: C

NEW QUESTION 4

What is the minimum slab floor to ceiling height recommended?

- A. 12feetminimum
- B. 14feetminimum
- C. 15feetminimum
- D. 16feetminimum

Answer: C

NEW QUESTION 5

What is the smoke development rating required for all materials hosted in a containment system?

- A. 150
- B. 300
- C. 450
- D. 600

Answer: C

NEW QUESTION 6

what is the ASHRAE recommended operational temperature.

- A. Minimum =54 degrees[F]/12 degrees[C] Maximum=88 degrees [F]/31degrees[C]
- B. Minimum =64 degrees[F]/18 degrees[C] Maximum=80 .6degrees [26 .9]<30 del="> [C]
- C. Minimum <=50 degree[A] Maximum =>200Degrees[B]
- D. Maximum <=33 Degree[XEIYCPJZDKLTWGBNMFUAHSRQV]/[33][64]="> Minimum >=18Degree[KOVBYPZXWMFGUTANLHQSRDCJE]/</18>

Answer: B

NEW QUESTION 7

What is the formula to find the maximum allowable cable depth in a non-solid bottom cable tray?

- A. $H = 50/1 + (L * 0.0007)$
- B. $H = 100/1 + (L * 0.0007)$
- C. $H = 150/1 + (L * 0.0007)$
- D. $H = 200/1 + (L * 0.0007)$

Answer: C

NEW QUESTION 8

What is the recommended fire suppression system for a data center?

- A. Water-based
- B. Gas-based
- C. Foam-based
- D. Powder-based
- E. None of the above

Answer: B

NEW QUESTION 9

Where should power cable be ran in an access floor?

- A. Hot aisle
- B. Cold aisle
- C. Above the access floor
- D. Below the access floor

Answer: B

NEW QUESTION 10

What is the recommended clearance space required for hot and cold aisles in a data center?

- A. 1-2 feet
- B. 3-4 feet
- C. 5-6 feet
- D. 7-8 feet

Answer: B

NEW QUESTION 10

What is the third preference regarding electricity supply?

- A. At Least Two Circuits From Same Power Grid But Different Substations And Separate Paths
- B. One Balanced Feeder Coordinated With Upstream Backup Feed
- C. One Circuit From Single Sub Station Fed Via Additional Path from Alternate Power Grid
- D. Two Balanced Feeds With Same Voltage Derived From A Single Distribution Station

Answer: A

NEW QUESTION 12

What is the minimum distance from the bottom of the access floor to the top of the cable tray?

- A. 1 inch
- B. 2 inches
- C. 3 inches
- D. 4 inches
- E. 5 inches

Answer: B

NEW QUESTION 13

What is the minimum distance recommended between a data center's backup generator and the main data center building?

- A. 10 feet
- B. 20 feet
- C. 30 feet
- D. 40 feet

Answer: C

NEW QUESTION 14

what is the second preference regarding utility service

- A. At least four circuits each from different distribution stations but fed via common feeders
- B. Two balanced feeds with different voltages derived from a single distribution station
- C. One balanced feeder coordinated with upstream backup feed
- D. At least One Circuit from two Separate Substations and Different Voltage Levels

Answer: B

NEW QUESTION 18

What should be done with unused rack space?

- A. it should be filled with blanking devices to reduce non-functional airflow
- B. it should be used for additional storage purposes
- C. it should be left open to allow for better ventilation
- D. they should be turned off to save energy costs

Answer: A

NEW QUESTION 23

What kind of height clearance should data center access roads have?

- A. A Minimum clear road width and sixteen (16) ft height clearance throughout.
- B. A Minimum clear road width and six(06) ft height clearance throughout.
- C. A Minimum clear road width with fourteen (14)ft hight clearance throughout.
- D. None Of The Above.

Answer: C

NEW QUESTION 27

what is the recommended height, of the support room pathway

- A. 9 ft
- B. 8ft
- C. 7ft
- D. 6ft

Answer: A

NEW QUESTION 32

What is the clearance required between the cold aisle and the CRAC unit?

- A. 2 feet
- B. 4 feet
- C. 6 feet
- D. 8 feet

Answer: D

NEW QUESTION 33

What is the difference between a raised floor and a solid floor?

- A. Raised floor allows for better airflow and cable management
- B. Solid floor allows for better cooling efficiency and higher load capacity
- C. Raised floor is cheaper and easier to install
- D. Solid floor is more flexible and adaptable to changing needs

Answer: A

NEW QUESTION 38

What is the recommended floor loading capacity for a data center?

- A. 1000 lbs per s
- B. ft.
- C. 1250 lbs per s
- D. ft.
- E. 1500 lbs per s
- F. ft.
- G. 1750 lbs per s
- H. ft.
- I. 2000 lbs per s
- J. ft.

Answer: C

NEW QUESTION 41

What is the recommended humidity range for a data center?

- A. 20-30%
- B. 30-40%
- C. 40-50%
- D. 50-60%
- E. 60-70%

Answer: C

NEW QUESTION 43

What is the first preference regarding utility service, class F4?

- A. At least two circuits from one substation, same path
- B. One circuit from one substation, separate paths
- C. At least two circuits from two separate substations, diverse substation power grids and separate paths
- D. At least one circuit from two separate substations, different voltage levels

Answer: C

NEW QUESTION 46

What are the different generator ratings?

- A. Standard, Backup and Emergency
- B. Prime, Continuous and Standby
- C. Primary, Secondary and Tertiary
- D. Normal, Redundant and Fault-tolerant

Answer: B

NEW QUESTION 51

What three things limit the amount of IT equipment per rack?

- A. power constraints, cooling constraints and lastly, rack space
- B. fire suppression system technology, humidity levels, and network speed
- C. sustainability goals, partitioning requirements, and compliance mandates
- D. staffing availability, security measures, and access points

Answer: A

NEW QUESTION 55

What is a possible downside to customer-owned maintenance holes?

- A. fire risk near data center property
- B. susceptibility to theft or damage by unauthorized personnel
- C. poor aesthetic appearance around facility exterior
- D. leaks leading to water infiltration into data center

Answer: D

NEW QUESTION 57

What type of slope is considered too extreme for a data center site?

- A. 5%
- B. 10%
- C. 15%
- D. 20%

Answer: C

NEW QUESTION 59

What Enhanced Fujita Scale level is commonly used in wind loading calculations?

- A. EF1,73-112 mph
- B. EF2,113-157mph
- C. EF3,158-206mph
- D. EF4,207-260 mph

Answer: D

NEW QUESTION 63

What is the clearance required between cabinets and the perimeter wall?

- A. 2 ft
- B. 4 ft
- C. 6 ft
- D. 8 ft

Answer: B

NEW QUESTION 66

What is the most common type of automatic transfer switch?

- A. Closed transition
- B. Open transition
- C. Delayed transition

D. Soft load transition

Answer: B

NEW QUESTION 70

What is the flame index spread rating required for all materials hosted in a containment system?

- A. 10
- B. 25
- C. 50

Answer: D

NEW QUESTION 72

What is the preferred location of the power distribution unit?

- A. a service gallery outside the computer room, if the A H J and feeder distances allow
- B. under each server rack
- C. in an unused area of another floor
- D. inside a ventilation duct

Answer: A

NEW QUESTION 76

Why do larger data centers require more H DAs?

- A. to ensure maximum horizontal cable lengths are not exceeded and to avoid cable congestion
- B. to reduce energy consumption and carbon footprint
- C. to increase server processing speed by minimizing latency
- D. to provide redundancy and failover mechanisms

Answer: A

NEW QUESTION 81

What's conservative' hydrogen maximum flow rate per minute for battery.

- A. 500 cm/m²
- B. 21 cm/m²
- C. 61 cm/m²
- D. None of these answer

Answer: B

NEW QUESTION 85

According to TIA-942, what is the low temperature that must be maintained in a data center?

- A. 60 degrees
- B. 65 degrees
- C. 68 degrees
- D. 70 degrees
- E. 75 degrees

Answer: C

NEW QUESTION 87

What is the minimum separation distance of underground telecommunications and utility cabling in same route?

- A. 2 feet minimum along entire route
- B. 6 feet minimum along entire route
- C. no need for separation as long as they are enclosed in different conduit systems.
- D. none of the above

Answer: B

NEW QUESTION 90

What is the appropriate fire rating requirements for a command center?

- A. 1/2 hour
- B. 1 hour
- C. 2 hours
- D. 3 hours

Answer: B

NEW QUESTION 93

What is the recommended front of rack aisle width?

- A. 2 feet
- B. 3 feet
- C. 4 feet
- D. 5 feet

Answer: C

NEW QUESTION 96

What is typically considered the demarcation point for electrical utility at a data center?

- A. The transformer
- B. The UPS
- C. The generator
- D. The switchboard

Answer: A

NEW QUESTION 98

where should the secured storage area be located?

- A. adjacent to the non-secured loading dock
- B. far away as possible from secure data
- C. adjacent to security offices
- D. adjacent to the secured loading dock
- E. None of above

Answer: D

NEW QUESTION 102

what additional fuel filtering is required for generators in class F3 and F4 facilities

- A. two-stage, spin-on-type fuel filters
- B. four stage, paper-type fuel filters
- C. five stage, mesh type fuel filters
- D. three stage, spin-on-type fuel filters

Answer: D

NEW QUESTION 105

what is minimum recommended space for secured storage area?

- A. 100 square feet B 240 square feet
- B. 250 square feet
- C. 280 square feet
- D. None of above

Answer: C

NEW QUESTION 106

What is the recommended amount of fuel supply to be available to a class F4 data center?

- A. 24 hours
- B. 48 hours
- C. 72 hours
- D. 96 hours

Answer: D

NEW QUESTION 107

Where should telecom cabling be routed under an access floor?

- A. In the cold aisle
- B. Above the access floor
- C. In the plenum space
- D. In the equipment room
- E. In the office area

Answer: A

NEW QUESTION 110

Why are H DAs more often required in data centers?

- A. they avoid cable congestion
- B. they improve fire suppression system
- C. they minimize noise pollution
- D. they enhance cooling effectiveness

Answer: A

NEW QUESTION 114

A. To Supply Primary Power To Data Center Equipment

- A. To backup data center equipment
- B. To supply electricity only during regular working hour
- C. To reduce carbon footprint in the utility industry

Answer: B

NEW QUESTION 116

What is the recommended range for the high temperature in a data center according to ASHRAE?

- A. 80.6 degrees
- B. 75 degrees
- C. 85 degrees
- D. 70 degrees
- E. 90 degrees

Answer: A

NEW QUESTION 119

What's the maximum number of racks in an aisle if one end has no exit?

- A. 10 racks
- B. 5 racks
- C. 15 Racks
- D. It doesn't matter

Answer: A

NEW QUESTION 124

What types of electrical equipment is typically located inside the computer room

- A. power distribution units, not power distribution equipment, remote power panels, and power strips
- B. transformers only
- C. Uninterrupted Power Supply (UPS) only
- D. Circuit Breakers only

Answer: A

NEW QUESTION 127

What is the recommended raised floor height, especially for high density needs and underfloor HVAC?

- A. 24"
- B. 30"
- C. 36"
- D. 42"

Answer: C

NEW QUESTION 128

What is an automatic static transfer switch used for?

- A. Switching between multiple utility power sources
- B. Switching between utility and generator power sources
- C. Switching between different generator power sources
- D. Switching between AC and DC power sources

Answer: B

NEW QUESTION 129

Where should all Storage and Unpacking activities occur?

- A. Outside the Building, at a secure location.
- B. Near the Main Entrance of Data Center
- C. Inside Computer Room
- D. Outside Computer room, either in Storage Rooms or Staging Areas located adjacent to Computer Room with Dedicated air Handling
- E. None of these

Answer: D

NEW QUESTION 133

What are the minimum separation distances for electrical and telecom services pathways to maintain from their primary and redundant feeds?

- A. 5 meters (16 feet)
- B. 10 meters (33 feet)
- C. 15 meters (49 feet)
- D. 20 meters (66 feet)

Answer: D

NEW QUESTION 136

What are the 3 different methods for grounding racks in a computer room?

- A. Ground bus, direct connections, bond to rack
- B. Ground conductor, surge protection, equipment rack
- C. Copper cable, conduit, flexible connector
- D. AC power, DC power, Ethernet

Answer: A

NEW QUESTION 137

What is the switch gear in an electrical distribution design responsible for?

- A. Transforming voltage
- B. Delivering power directly to the server racks
- C. Transferring control between utility and generator
- D. Managing cooling systems

Answer: C

NEW QUESTION 138

What is minimum recommended generator fuel storage amount?

- A. enough to run 4 to 16 hours at full load
- B. enough to run 24 to 36 hours at full load
- C. enough to run 48-72 hours at full load
- D. enough to run up-to a week at full load

Answer: C

NEW QUESTION 141

What is the recommended headroom for overhead cable tray?

- A. 3"
- B. 6"
- C. 9"
- D. 12"

Answer: D

NEW QUESTION 143

What are the steps involved in a security survey and analysis?

- A. Evaluate environmental factors
- B. Identify potential vulnerabilities
- C. Assess security controls and countermeasures
- D. All of the above

Answer: D

NEW QUESTION 148

What is the recommendation regarding row length?

- A. Do not exceed 20 racks in length and dead-end rows not to exceed ten racks long
- B. Maximum twenty-five racks in each row only
- C. Ten Racks in Length
- D. None
- E. All

Answer: A

NEW QUESTION 153

why does the entrance room designer need to meet with each anticipated access provider?

- A. To determine their electrical, space, interface, and other facility requirements
- B. As an alternative approach to save cost
- C. To know about hardware requirement only
- D. none of above

Answer: A

NEW QUESTION 158

What is the appropriate fire rating requirements for an ITE space?

- A. 1/2 hour
- B. 1 hour
- C. 2 hours
- D. 3 hours

Answer: B

NEW QUESTION 163

what is the best practice performance metric to gauge thermal compliance for ASHRAE and NEBS for a given data center

- A. Temperature-Humidity Index (THI)
- B. Airflow Efficiency Ratio (AFER)
- C. Power Usage Effectiveness (PUE)
- D. Computational Fluid Dynamics (CFD) modeling

Answer: D

NEW QUESTION 168

What are three reasons for locating the power distribution unit outside the computer room?

- A. removes maintenance item, removes a source of heat, allows P D U to occupy less expensive space
- B. reduces cable congestion, prevents water damage, provides better access points
- C. increases cooling efficiency, eliminates fire hazard, minimizes noise pollution
- D. lowers electricity costs, improves network speed, enhances security measures

Answer: A

NEW QUESTION 173

What is the minimum aisle width?

- A. 3 feet
- B. The width shouldn't exceed more than half room length
- C. Arm span distance between technicians
- D. Twice server cabinet depth

Answer: A

NEW QUESTION 176

What room should have its own dedicated air handling system apart from the computer room?

- A. Electrical Room
- B. Break Room
- C. Printer Room
- D. Storage Room
- E. Telecommunications Room

Answer: C

NEW QUESTION 181

What is the recommended amount of fuel supply needing to be available to a class F2 data center?

- A. 12 hours
- B. 18 hours
- C. 24 hours
- D. 30 hours
- E. 36 hours

Answer: C

NEW QUESTION 183

What is the recommended amount of fuel supply needing to be available to a class F3 data center?

- A. 24 hours

- B. 48 hours
- C. 72 hours
- D. 96 hours

Answer: C

NEW QUESTION 184

What is the recommended range for the high temperature in a data center according to NEB?

- A. 80 degrees
- B. 75 degrees
- C. 85 degrees
- D. 70 degrees
- E. 90 degrees

Answer: A

NEW QUESTION 185

What are main concepts in choosing location of the entrance room?

- A. If possible, it should be very close, and, in the computer room distance limitations for T1,T3,E1,and E3 circuits,
- B. Should not be near to Data Center
- C. Dedicated location outside building
- D. All of these

Answer: A

NEW QUESTION 186

What electrical service feed options are there for a data center?

- A. Single Entrance/Single Pathway
- B. Single Entrance/Dual Pathway
- C. Dual Entrance/Dual Pathway
- D. All of the above

Answer: D

NEW QUESTION 190

What IBC occupancy category are data centers placed in?

- A. Category 3
- B. Category 4
- C. Category5
- D. category6

Answer: B

NEW QUESTION 191

What is the ASHRAE min and max dew point

- A. 30F and 59F
- B. 42F and 65F
- C. 40F and 55F
- D. -10??F to +85??F

Answer: B

NEW QUESTION 196

What is the clearance required for the hot aisle width?

- A. 2 ft
- B. 4 ft
- C. 6 ft
- D. 8 ft

Answer: B

NEW QUESTION 199

What 3 standards books should be followed for data center grounding and bonding?

- A. TIA 942, TIA 607 and IEEE 1100
- B. UL 467, UL 96A and NFPA 70
- C. TIA 568, ANSI/TIA-606-B and TIA 568-C.1
- D. ASHRAE Standard 90.1, ASHRAE Standard 62.1 and ASHRAE Standard 55

Answer: A

NEW QUESTION 201

What specific power consumption should be used to measure PU E?

- A. What can directly support operations without including power utilization How much energy a particular device utilizes per unit of time?
- B. only that which directly supports the data center like electrical distribution and cooling equipment
- C. Maximal consumption across all measured devices in a specified amount of time.
- D. Proportion between IT subsystem's input vs output capacities over some perio

Answer: B

NEW QUESTION 206

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