

## DCDC EXAM BLUEPRINT

## AREA OF EXPERTISE

% OF EXAM

**Concept Planning & Analysis****25%**

- Conduct a needs assessment with client
- Identify future growth of data center
- Conduct site search
- Collect risk/benefit factors for natural environment
- Determine regulation and code requirements
- Determine financial implications of site selection
- Evaluate how well potential site(s) meet criteria
- Develop feasibility report

**Systems****24%**

- Architectural and Space Design
  - Design space
  - Apply IT equipment capacity and space requirements to space design
  - Apply ancillary systems space requirements
  - Determine personnel requirements
  - Determine physical security requirements
  - Determine support area/space needs and adjacencies
- Mechanical Systems
  - Identify site utility requirements
  - Coordinate mechanical systems criteria with mechanical engineer
- Electrical Systems
  - Identify site utility requirements
  - Coordinate power systems criteria

**Information Technology / Ancillary Systems / Communications Connectivity****16%**

- Information Technology
  - Identify IT site requirements
  - Coordinate IT criteria with other discipline designers
- Ancillary Systems
  - Identify ancillary systems site requirements
  - Coordinate ancillary systems criteria with other discipline designers
- Communications Connectivity
  - Identify site communications requirements
  - Coordinate IT stakeholders communications criteria

AREA OF EXPERTISE	% OF EXAM
<b>Data Center Operations &amp; Maintenance Assessment</b> <ul style="list-style-type: none"> <li>○ Conduct optimization study</li> <li>○ Assess current system state</li> <li>○ Assess current efficiency of DC systems</li> <li>○ Assess current capacity and growth capacity</li> <li>○ Assess aging of technology and need for refresh</li> <li>○ Assess utility</li> <li>○ Assess physical security</li> <li>○ Assess operational performance</li> <li>○ Assess DC's suitability against client's IT requirements</li> <li>○ Assess operations documentation</li> <li>○ Assess safety procedures</li> <li>○ Develop assessment report</li> </ul>	<b>13%</b>
<b>Security Assessment</b> <ul style="list-style-type: none"> <li>○ Manage threat assessment</li> <li>○ Coordinate security audit</li> <li>○ Verify against objectives</li> <li>○ Identify countermeasures</li> <li>○ Coordinate cost benefit/feasibility/present value studies</li> <li>○ Translate disaster recovery plan requirements into recovery design recommendations</li> </ul>	<b>12%</b>
<b>Construction Administration &amp; Commissioning</b> <ul style="list-style-type: none"> <li>○ Construction Administration <ul style="list-style-type: none"> <li>▪ Assist in overall bid process and award</li> <li>▪ Assist with coordination during construction phase</li> <li>▪ Assist with coordination during project close-out phase</li> </ul> </li> <li>○ Commissioning <ul style="list-style-type: none"> <li>▪ Assist with pre-commissioning activities</li> <li>▪ Assist in development of commissioning plan</li> <li>▪ Assist in execution of commissioning activities</li> </ul> </li> </ul>	<b>10%</b>