DCT Certified Network Infrastructure Professional

Program Duration:

5 Days

Program Objectives

- Develop knowledge and skills to design and implement complex network infrastructure projects for smart buildings.
- Gain expertise in networking fundamentals, standards, wireless, security, unified communications, and copper/fiber systems.
- Acquire in-depth knowledge of testing copper and fiber systems based on international standards and warranty requirements.

Program Overview

DCT Cloud Computing Essentials gives an insight into how Cloud computing helps individuals and organizations to take advantage of the cost/benefit of moving from on-premises equipment to cloud computing with faster and reliable internet. The course is suitable for people planning to migrate to the cloud and helps to understand concepts of cloud computing on computing and storage. Cloud computing provides a superior alternative to traditional on-premises Server, Networking and storage equipment. The benefits are reduced costs, speed, scalability, productivity, and reliability. Cloud computing allows users to remotely access unlimited data storage and software over the internet without the need for expensive hardware in every business location

DCT Certified Network Infrastructure Professional Topics

a). Networking Concepts

- Explain the purposes and uses of ports and protocols.
- Explain devices, applications, protocols and services at their appropriate OSI layers.
- Explain the concepts and characteristics of routing and switching
- Given a scenario, configure the appropriate IP addressing components.
- Compare and contrast the characteristics of network topologies, types and technologies
- Given a scenario, implement the appropriate wireless technologies and configurations.
- Summarize cloud concepts and their purposes
- Explain the functions of network services.

b). Infrastructure

- Given a scenario, deploy the appropriate cabling solution.
- Given a scenario, determine the appropriate placement of networking devices on a network and install/configure them.
- Explain the purposes and use cases for advanced networking devices.
- Explain the purposes of virtualization and network storage technologies.
- Compare and contrast WAN technologies

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DCT Certified Network Infrastructure Professional Topics

c). Networking Operations

- Given a scenario, use appropriate documentation and diagrams to manage the network.
- Compare and contrast business continuity and disaster recovery concepts.
- Explain common scanning, monitoring and patching processes and summarize their expected outputs.
- Given a scenario, use remote access methods. Identify policies and best practices.

d). Network Security

- Summarize the purposes of physical security devices.
- Explain authentication and access controls.
- Given a scenario, secure a basic wireless network.
- Summarize common networking attacks.
- Given a scenario, implement network device hardening.
- Explain common mitigation techniques and their purposes.

e). Network Troubleshooting and Tools

- Explain the network troubleshooting methodology
- Given a scenario, use the appropriate tool
- Given a scenario, troubleshoot common wired connectivity and performance issues.
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- Given a scenario, troubleshoot common network service issues.