INSTITUTE OF NETWORK SOLUTION

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100% CAREER GUARANTEED

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Networking Programme Details

MODULE 1

CompTIA A+

Install and configure PC system unit components and peripheral devices.

Install, configure, and troubleshoot display, multimedia devices, storage devices, and internal system components.

Explain network infrastructure concepts.

Configure and troubleshoot network connections.

Implement client virtualization.

Support and troubleshoot laptops, mobile devices and print devices.

CompTIA Network+

Networking Fundamentals

Explain basic networking concepts including network services, physical connections, topologies and architecture, and cloud connectivity.

Network Implementations

Routing technologies, networking devices, ethernet solutions wireless

Network Operations

Monitor and optimize networks to ensure business continuity.

Network Security concepts and network attacks in order to harden networks

Troubleshoot common cable, connectivity, and software issues related to networking.

Microsoft MCSA Windows Server 2016

Install Windows Servers in Host and Compute Environments

Implement Storage Solutions, Hyper-V, Windows Containers & High Availability

Maintain and Monitor Server Environments

Implement DNS, DHCP and IPAM, Network Connectivity & Remote Access Solutions

Implement Core and Distributed Network Solutions

Implement an Advanced Network Infrastructure

Install, Configure, Manage and Maintain Active Directory Domain Services (AD DS)

Create and Manage Group Policy

Implement AD CS and Identity Federation and Access Solutions

MODULE 2

RedHat Linux

Handling files, directories, command-line environments, and documentation

Create simple shell scripts

Operate running systems

Configure local storage using partitions and logical volumes

Create and configure file systems and file system attributes

Deploy, configure, and maintain systems, including software installation, update, & core services

Manage users and groups

Manage security, including basic firewall and SELinux configuration

Perform basic container management

Cisco CCNA

NETWORK FUNDAMENTALS

Network component
Network topology architectures
Physical interface and cabling
Identify interface and cable
Compare TCP to UDP
IPv4 addressing, subnetting
IPv6 addressing and prefix
IPv6 address
Virtualization fundamentals
Wireless principles
Switching concepts

NETWORK ACCESS

VLANs & interswitch connectivity
L2 discovery protocols (CDP and LLDP)
EtherChannel
STP & RSTP
Wireless Architectures and AP
AP and WLC management
Wireless LAN configuration

IP CONNECTIVITY

Components of routing table
Router forwarding decision
Configure and verify static routing
Configure and verify single area OSPFv2
First hop redundancy protocol

IP SERVICES

NAT/ PAT
NTP client and server mode
DHCP and DNS role in network
SNMP in network operations
Syslog features
DHCP client and relay
Forwarding PHB for QoS
Remote access using SSH
TFTP/FTP

SECURITY FUNDAMENTALS

Security concepts
Security program elements
Device access control using local passwords
Security password policies elements
Remote access and site-to-site VPNs
ACL, Layer 2 security features, AAA
Wireless security protocols
WLAN using WPA2 PSK

AUTOMATION AND PROGRAMMABILITY

Automation impact on network mgmt.
Traditional vs controller-based networking
Controller-based and SD architectures
Control plane and data plane
North-bound and south-bound APIs
DNA Center enabled device mgmt.
Characteristics of REST-based APIs
Puppet, Chef, and Ansible capabilities
Interpret JSON encoded data

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ARCHITECTURE

Design principles used in an enterprise network
Design principles of a WLAN deployment
On-prem and cloud infrastructure deployments
Principles of SD-WAN & SDA solution
Concepts of wired and wireless QoS
Hardware vs software switching

VIRTUALIZATION

Virtualization technologies
Data path virtualization technologies
Network virtualization concepts

INFRASTRUCTURE

Wireless – L1 concepts, AP modes, antennas
AP discovery L2 & L3 roaming, TS WLAN
L2 – Trunking, EtherChannel, RSTP, MST
NTP, NAT/PAT, HSRP, VRRP, Multicast
L3 – EIGRP, OSPF, BGP

NETWORK ASSURANCE

Debugs, trace route, ping, SNMP, and syslog
Syslog for remote logging
NetFlow and Flexible NetFlow
SPAN/RSPAN/ERSPAN, IPSLA
NETCONF and RESTCONF
Cisco DNA Center workflows

SECURITY

Device access control
Infrastructure security features (ACLs, CoPP)
REST API security
Wireless security features (EAP, WebAuth, PSK)
Network security design
Threat defense, Endpoint security, Next-generation firewall

AUTOMATION

Basic Python components and scripts
Construct valid JSON encoded file
High-level principles and benefits of YANG
APIs for Cisco DNA Center and vManage
Interpret REST API in payload using DNA Center and RESTCONF
Construct EEM applet to automate configuration
Agent vs. agentless orchestration tools

Communication Skills & Personality Development
Interview Preparation & Mock Interviews
International Certification Exam Preparations

Some Of The Top Companies Recruiting INS-ians

CompTIA | CISCO | Microsoft | Red Hat | aws | python

65, KALYAN COLONY, KHATIPURA, JAIPUR-302021
9314887355, 9535965956 | EMAIL: info@insjaipur.com | WEB: www.insjaipur.com