



Capitol Professional Academy
Give Wings to Your Career

CAPITOL PROFESSIONAL ACADEMY

DIPLOMA IN ADVANCED COMPUTER NETWORKING



Technical Training
Recruitment
Engineering & Consulting
Constructions

Capitol Professional Academy, an institution dedicated for providing advanced level of training to vibrant enthusiasts who seek careers in the industry and corporate. The professional courses offered by Capitol Professional's Academy is specially designed on Industry basis to acquire technical knowledge and skills in order to seek career position in corporate and industries. CPA trained individuals are qualified for positions in constructional projects, petrochemical plants, telecom sector, utilities, fabrication designing, software, networking, Industries which work on industrial automation based turnkey projects, maintenance and other occupations that require automation skills.



CAPITOL PROFESSIONAL ACADEMY
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DIPLOMA IN ADVANCED COMPUTER NETWORKING

INDUSTRY FOCUSING

- ✦ Telecom companies
- ✦ Military services
- ✦ IT and networking
- ✦ Oil and Gas Industry
- ✦ Utilities
- ✦ Hospitality Industry
- ✦ Airports / Aviation field
- ✦ Sea ports / Shipyards
- ✦ Construction & Infrastructure
- ✦ Medical services
- ✦ Transportation fields
- ✦ Marine Navigations

Flexible solutions for Industry need

This course is an introduction to the world of networking personal computers. It focuses on configuring, managing, and troubleshooting elements of the basic network infrastructure. Once you have successfully completed this course, you will have mastered the fundamentals of networking. This course also covers maintenance, management, and security of a network.

COURSE DETAILS

Batch :	Full Time	Part Time
Duration :	2 Months	3 Months
Qualification :	M.TECH / B.TECH / DIPLOMA (ECE/CSE/IT/EEE)	



DESIGNING

Methods and techniques for the design of Computer networks, network design tools



INSTALLATION

Installation, configuration and commissioning of, voice, data, video, networking systems.



PROJECT LAB & ONJOB TRAINING

All the systems custom made labs dedicated for Industry are used for Training the graduates.

PROJECT MANAGEMENT

The discipline of initiating, planning, executing, controlling, and closing the work of a team to achieve specific goals and meet specific success criteria.



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DIPLOMA IN ADVANCED COMPUTER NETWORKING

COURSE DETAILS

- ✚ Module -1) Introduction to Networking
- ✚ Module -2) Introduction to Local Area Networks
- ✚ Module -3) Basic Communication protocols
- ✚ Module -4) Introduction to Wide Area Networks
- ✚ Module-5) Introduction to TCP/IP
- ✚ Module-6) Introduction to Telecommunications
- ✚ Module-7) Internetworking Devices
- ✚ Module -8) Internet Technologies
- ✚ Module-9) Convergence of Technologies
- ✚ Module-10) Implementation of Data Networks
- ✚ Module-11) Design and Implementation of Voice Networks
- ✚ Module-12) Protocols Analysis
- ✚ Module-13) Network Design
- ✚ Module-14) Web Strategies for Business, Managing Web Technologies
- ✚ Module-15) Project management
- ✚ Module -19) LAB
- ✚ Module-20) On Job Training / Site Visits / Main project



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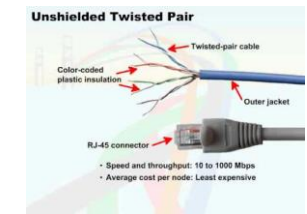
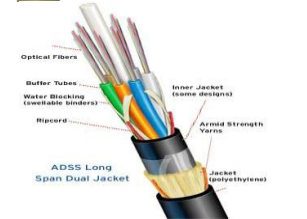
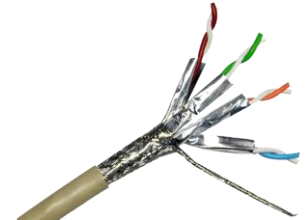
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DIPLOMA IN ADVANCED COMPUTER NETWORKING

COURSE OBJECTIVES:

When you complete this course, you should be able to:

- ✚ Identify basic networking concepts, including how a network works. Content should include network access, protocol, network interface cards, full duplex, cabling twisted pair, coaxial, fiber optic cable.
- ✚ Identify the ramifications of repairs on the network. Content should include reduced bandwidth, loss of data, network slowdown.
- ✚ Identify the networking capabilities of DOS and Windows including procedures for Connecting to the network.
- ✚ Identify concepts and capabilities relating to the Internet and basic procedures for setting up a system for Internet access. Content should include TCP/IP, E-mail, html, http, ftp, domain names (Web sites), ISP, and dial-up access.
- ✚ Basics of configuring IP addressing and TCP/IP properties (DHCP, DNS) , Bandwidth and latency o Status indicators , Protocols (TCP/IP, NETBIOS), Full-duplex, half-duplex , Basics of workgroups and domains , Common ports: HTTP, FTP, POP, SMTP, TELNET, HTTPS o LAN / WAN o Hub, switch and router, Identify Virtual Private Networks (VPN) of Basics class identification.

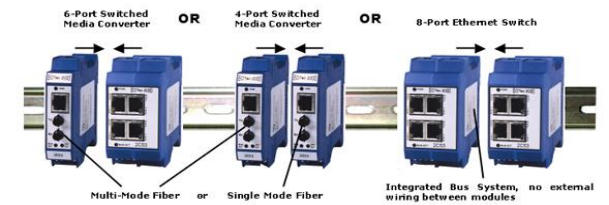
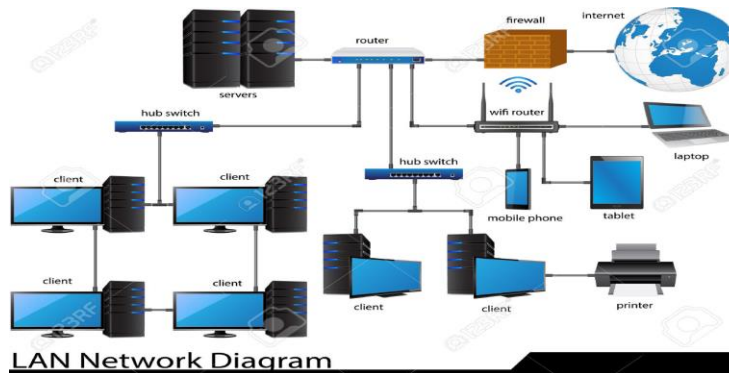


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Basic Networking principles

- Networking topologies (identifying OSI layer)
- Local area Network / Wide area network/ Metropolitan Area network
- Network switches / Networking Routers / Access point
- Installation /termination /Commissioning of networks
- VLAN
- Media Conversions
- FTTX/FDH



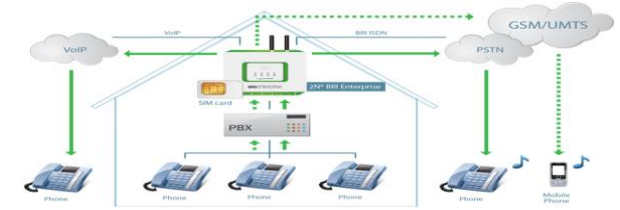
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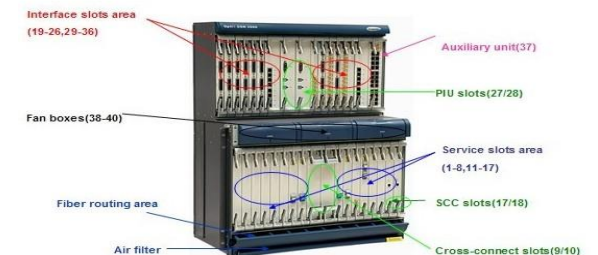
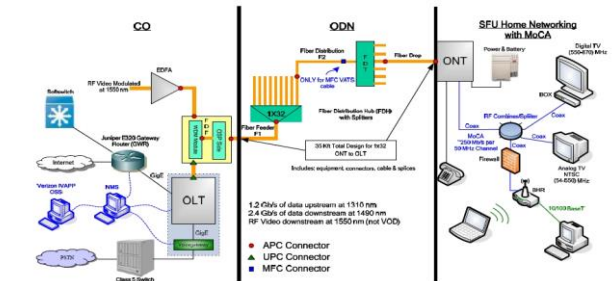
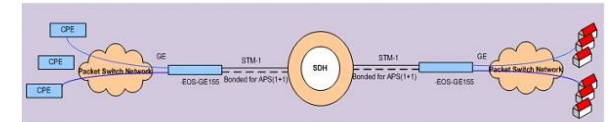
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Categorize network cables and connectors and their implementations of Cables

- ✚ Plenum / PVC
- ✚ UTP (e.g. CAT3, CAT5 / 5e, CAT6)
- ✚ STP
- ✚ Fiber
- ✚ Coaxial cable o Connectors
- ✚ RJ45 RJ11
- ✚ Compare and contrast the different network types
- ✚ Broadband
- ✚ DSL
- ✚ Cable
- ✚ Satellite



Gigabit EOS



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PROJECT MANAGEMENT



Project management

• Understanding of Project flow

- Job Explanation meeting
- Pre Qualification
- Estimation
- Tender Placing
- Contract Awarding
- Kick of meeting
- Planning
- Implementation
- Commissioning
- Hand over
-

• Drawing Analysis

- IFC
- Shop drawing
- Single line diagram / Schematic diagram
- Floor lay outs / rack lay outs / Rack Elevation
- As built drawings

• Quality , Health and Safety Plan

- Project Quality Plan
- Method statement
- Risk Assessment
- Auditing
- Safety Induction
- Tool Box Talk
- Daily Site Activity Plan
- PPE



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