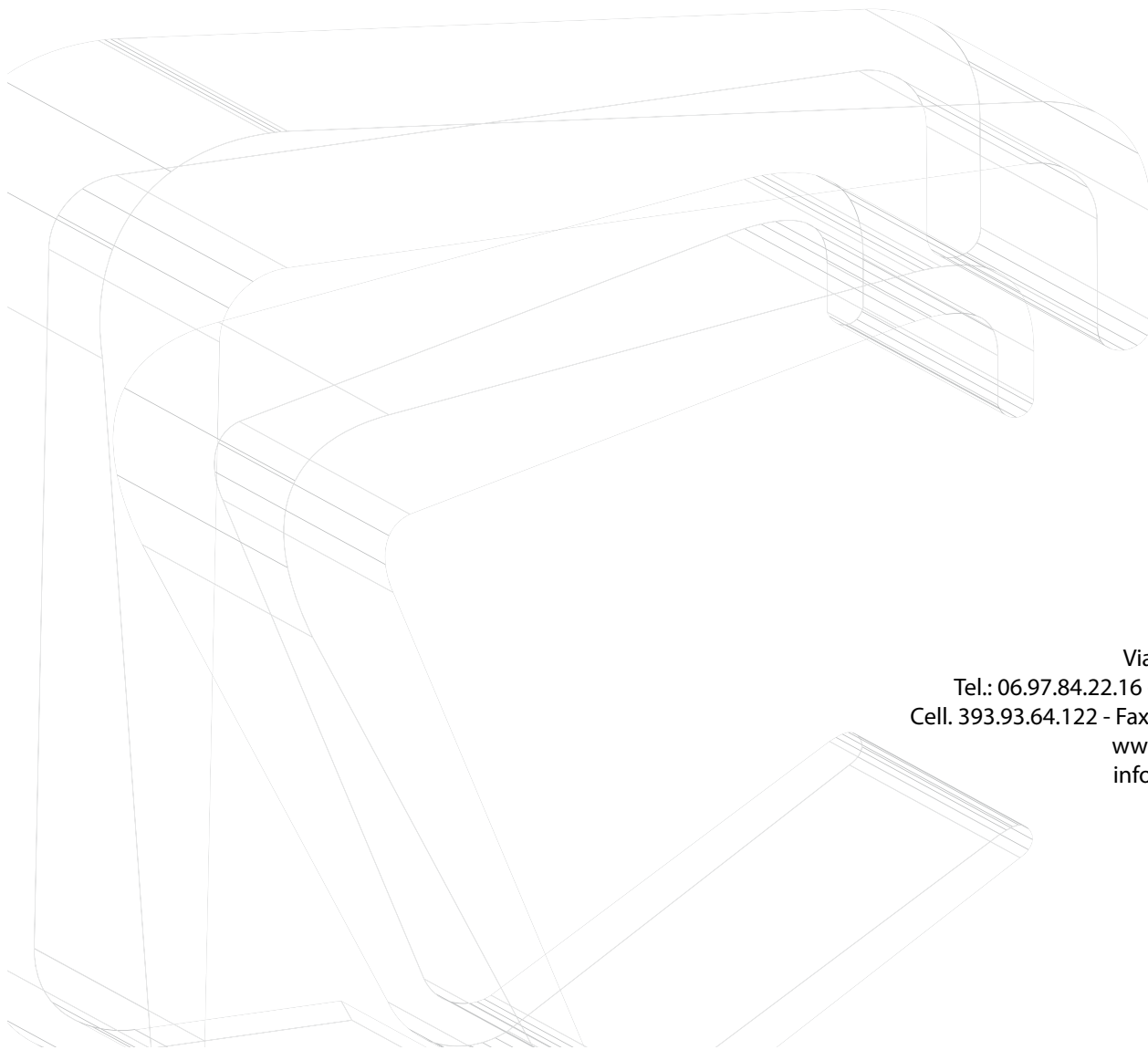




Programma corso Cisco CCNA



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Informazioni generali

L'esperto di Networking è uno specialista delle reti di calcolatori in grado di installare e configurare reti distribuite sia in ambito locale (Local Area Network - LAN) sia sui collegamenti geografici (Wide Area Network - WAN), su dispositivi quali router e switch, nonché di offrire le conoscenze necessarie ad ottimizzare i progetti implementati, monitorare il funzionamento e pianificare la futura evoluzione della rete.

Il corso ha come obiettivo quello di formare una figura professionale in grado di rispondere alle nuove esigenze aziendali nell'ambito delle telecomunicazioni e networking; l'utente potrà installare, configurare e operare all'interno di servizi LAN, WAN e accesso remoto per piccole reti, utilizzando i protocolli IP, IGRP, Serial, Frame Relay, IP RIP, VLANs, RIP, Ethernet, Access Lists e altri.

Durante il corso si affronteranno fondamenti del networking, router e routing, switching di base, tecnologie WAN.

Il corso fornisce le conoscenze necessarie per prepararsi alla certificazione CCNA (Cisco Certified Network Associate), esame di certificazione CISCO 640-802 passaporto fondamentale per entrare in modo professionale nel settore del networking.

Aree e obiettivi per la certificazione CCNA

Planning & Designing

- :: Design a simple LAN using Cisco Technology
- :: Cisco's Security Device Manager
- :: Design an IP addressing scheme to meet design requirements
- :: Select an appropriate routing protocol based on user requirements
- :: Design a simple internetwork using Cisco technology
- :: Develop an access list to meet user specifications

Implementation & Operation

- :: Choose WAN services to meet customer requirements
- :: Configure routing protocols given user requirements
- :: Configure IP addresses, subnet masks, and gateway addresses on routers and hosts
- :: Configure a router for additional administrative functionality
- :: Security, Perimeter Firewall and Internal routers
- :: Internet protocol Version 6 IPv6
- :: Network Address Translation NAT
- :: Configure a switch with VLANs and inter-switch communication
- :: Implement a LAN
- :: Customize a switch configuration to meet specified network requirements
- :: Manage system image and device configuration files
- :: Perform an initial configuration on a router
- :: Perform an initial configuration on a switch
- :: Implement access lists
- :: Implement simple WAN protocols

Troubleshooting

- :: Utilize the OSI model as a guide for systematic network troubleshooting
- :: Perform LAN and VLAN troubleshooting
- :: Troubleshoot routing protocols
- :: Troubleshoot IP addressing and host configuration
- :: Troubleshoot a device as part of a working network
- :: Troubleshoot an access list
- :: Perform simple WAN troubleshooting

Technology

- :: Describe network communications using layered models
- :: Describe the Spanning Tree process
- :: Compare and contrast key characteristics of LAN environments
- :: Evaluate the characteristics of routing protocols
- :: Evaluate TCP/IP communication process and its associated protocols
- :: Describe the components of network devices
- :: Evaluate rules for packet control
- :: Cisco's Wireless Technology
- :: Evaluate key characteristics of WANs