

## About CRISP

CRISP is established under the Indo-German Technical Cooperation Agreement as an autonomous organization of the Dept. of Technical Education, Skill Development & Employment, Govt. of M.P.

CRISP provides technical training and consultancy services for Industry Personnel, Government Officers, Faculties of Academic & Training Institutions, Students & Jobseekers. CRISP is equipped with the state-of-the-art labs & technology, latest software, qualified, trained and experienced trainers in the relevant fields.

### Other training programmes in CS/IT :

#### AI & Data Science:

- AI & ML
- Advance Data Analytics

#### Office Management With AI:

- MS Office/Open Office
- Advanced Exce
- ITally Prime

#### Programming Languages:

- C & C ++
- Java(J2SE)
- CISCO Programming Essentials in Python

#### Networking & Cyber Security:

- CISCO IT Essentials (PCRM & Networking)
- CISCO Networking Essentials
- CISCO CCNA
- CISCO Cyber Security Essentials

#### Database Management:

- ORACLE (OCA)

#### Web Designings:

- Web Development with Python & Django

## Patron Clients of CRISP



### Contact :

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Course Co-ordinator

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## Centre for Research and Industrial Staff Performance

(Established under Indo-German Technical Co-operation)

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**CRISP**  
ISO 9001 : 2008

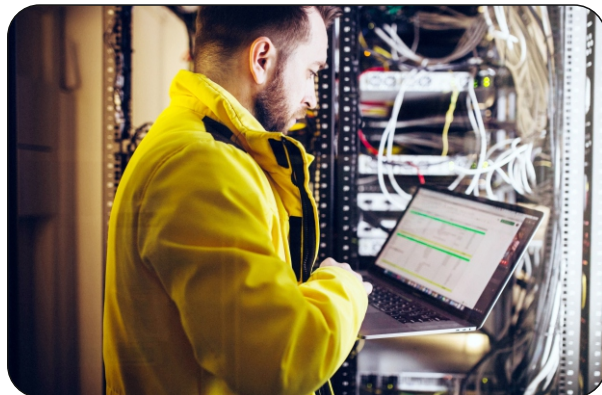
# CISCO NETWORKING ESSENTIALS



...unleashing the full potential of men & machines



## CISCO NETWORKING ESSENTIALS



### Introduction of Course

The Networking Essentials course provides learners with a broad foundational understanding of networking. The learner is presented with an engaging and exploratory view of networks, the devices that comprise them, how they work, troubleshooting tools and techniques. The goal of this course is to provide the learner with an engaging, exploratory view of networks, including the internet.

This course also teaches knowledge and skills for networking by covering the concepts like IP Addressing, OSI Layers, operating system and cisco device configuration, troubleshooting methodologies and ends with the ability to configure and troubleshoot a home office or small Cisco office network. It prepares the learner to move into Cybersecurity or DevNet by going deeper into Ethernet, empowering the learner to be ready for networking industry.

### Course Contents

- Fundamentals of Computer Networking
- Networking Essentials and TCP/IP & OSI layer Model
- Network hardware
- Interconnecting of network hardware
- Peer to Peer Network
- Preparing network cables
- Dynamic and Static IP addressing (IPv4 & IPv6)
- Client – Server network
- Installing Client and Server OS
- Installing Active Directory
- Installation of server roles: file server, application server, DHCP server and DNS server

- Network Integration
- Client and Resource Management
- Basic Administration
- Types of Network Attacks & Prevention Techniques (Basic Firewall)
- Basic Configuration of Router and Switch
- Build a switch and router network
- Troubleshoot network problems with common network utilities.
- Troubleshoot a network connectivity problem

### Methodology

The programme consists of a mix of :

- Lectures and presentations
- Demonstrations
- Interactive discussions
- Hands-on practice
- Virtual software

### Pre-requisite

- Graduates or students pursuing 10+2/ Degree/Diploma/ITI in any stream
- Participant should have basic knowledge of computer operations

### Duration

**Full time :** 5 working days (7 hours/day)

**Part time:** 8 weeks (45 working days, 2 hours/day)

### Course Fee

Corporate participant: Rs.20,000/-  
(Non Residential) + GST

Fee will be subsidized for Jobseekers/students

### Mode of Payment

Cash / UPI/ Online/ Debit/ Credit Card