KOENIG SOLUTIONS · COURSE OUTLINE

Network Fundamentals: OSI, Routing & VLANs

Learn to explain core networking concepts, from OSI and TCP/IP models to VLANs, routing and network services.

3 Days
DURATION

15
TOPICS

COURSE OVERVIEW

This course covers networking basics including LAN, WAN and MAN, together with the OSI and TCP/IP models. It examines network devices such as switches, routers, firewalls and load balancers, alongside IP addressing and subnetting, VLANs and routing concepts. It then looks at network services including DNS, DHCP and NAT, network availability and redundancy, and performance and monitoring basics, before covering network considerations for VDI and storage traffic and an introduction to network security concepts.

WHO THIS COURSE IS FOR

- **Network Administrators**
- **Infrastructure Engineers**
- **IT Support Staff**
- **Systems Administrators**
- **Help Desk Technicians**

LEARNING OBJECTIVES

- Understand enterprise network design and components
- Learn how networks support VDI, security, and storage
- Build strong networking fundamentals for infrastructure roles

COURSE SYLLABUS

15 Topics

Networking Basics

TOPICS

LAN, WAN, MAN · OSI & TCP/IP models

Network Devices

TOPICS

Switches · Routers · Firewalls · Load balancers

IP addressing & subnetting (foundational) · VLANs & routing concepts

Network Services

TOPICS

- DNS
- DHCP
- NAT
- Network availability & redundancy
- Network performance & monitoring basics
- Network considerations for VDI & storage traffic
- Introduction to network security concepts

NOTES

- Outcome: Participants can understand, communicate, and support enterprise network environments.

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

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