Jaipur Engineers
Your One-Stop IT & Staffing Ecosystem

NETWORKING

CCNA

SAMPLE PROJECT

Branch Network Simulation



COURSE FEE

Fee on enquiry

JAIPUR, RAJASTHAN

+91 70146 92039

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Core concepts



01 Network fundamentals, IPv4 and IPv6 addressing

02 Switching, VLAN trunks and spanning tree

03 Static routing and OSPF fundamentals

Draw the topology

Label each device, connection and access boundary in a simulation.

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Applied skills

- **Clients**
- **Connectivity**
- **Services**



04 DHCP, NAT, DNS and IP services

05 ACLs, wireless and secure device access

06 Automation concepts and connectivity troubleshooting

PROJECT DELIVERABLES

A topology, addressing plan and results from representative diagnostic checks.

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Portfolio project

Branch Network Simulation

Create a simulated branch with VLANs, routed subnets and verified connectivity rules.



Draw the topology

Label each device, connection and access boundary in a simulation.

Check connectivity

Record expected traffic paths and confirm results in the simulator.

A topology, addressing plan and results from representative diagnostic checks.

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Course fees

COURSE FEE

Fee on enquiry

Ask admissions for the course fee, available batches and enrolment details.

ADMISSIONS

+91 70146 92039

info@jaipurengineers.com

122/228, Indra Path, Thadi Market

Mansarovar, Jaipur, Rajasthan 302020

SCAN FOR MAP

Check course details

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Course content

MODULES 01–02

01

Lessons & practice

- Network fundamentals
- IPv4
- IPv6 addressing

HANDS-ON — Calculate subnets and assign IPv4 and IPv6 addresses to a branch lab.

02

Lessons & practice

- Switching
- VLAN trunks
- Spanning tree

HANDS-ON — Create VLANs and trunks and observe how spanning tree handles redundant links.

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Course content

MODULES 03–04

03

Lessons & practice

- Static routing
- OSPF fundamentals

HANDS-ON — Configure a local practice topology with static routing and OSPF and verify routes.

04

Lessons & practice

- DHCP
- NAT
- DNS
- IP services

HANDS-ON — Test DHCP leases, NAT and name resolution in the simulator.

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MODULES 05–06

05

Lessons & practice

- ACLs
- Wireless
- Secure device access

HANDS-ON — Check an ACL against required traffic and secure administrative access to the lab.

06

Lessons & practice

- Automation concepts
- Connectivity troubleshooting

HANDS-ON — Use diagnostics to isolate a connectivity fault and document the result.