Cisco Certified Network Associate (CCNA 200-301)

Independent Course Syllabus & Comprehensive Study Blueprint

EXAM CODE	TIME LIMIT	QUESTION COUNT	PASSING SCORE
200-301	120 Minutes	Approximately 100 Questions	Variable (Approx. 825 / 1000)

Recommended Prerequisites: Basic computer literacy and IP knowledge recommended.

Curriculum Blueprint & Domain Breakdown

Official Blueprint Weighted Distribution

1.0 Network Fundamentals — 20%

- Routers, switches, next-gen firewalls, wireless LAN controllers, and cabling architectures

2.0 Network Access — 20%

- VLANs, 802.1Q trunking, EtherChannel, Spanning Tree Protocol (STP), and wireless architectures

3.0 IP Connectivity — 25%

- Routing table components, static routing, and single-area OSPFv2 configuration and troubleshooting

4.0 IP Services — 10%

- NAT, NTP, DHCP, DNS, SNMP, Syslog, and Quality of Service (QoS) mechanisms

5.0 Security Fundamentals — 15%

- Threat defense, password encryption, port security, DHCP snooping, and dynamic ARP inspection

6.0 Automation and Programmability — 10%

- REST APIs, JSON, YAML, Cisco DNA Center, Puppet, Chef, and Ansible automation

Recommended 8–10 Week Study Milestone Plan

Structured Self-Paced Schedule

WEEKS 1–3
Network Architecture, Subnetting, Switch Configuration & VLAN Trunking

WEEKS 4–6
IPv4/IPv6 Routing, OSPFv2 In-Depth & Packet Tracer Labs

WEEKS 7–8
IP Services, Port Security & Wireless LAN Controller Setup

WEEKS 9–10
Network Automation, REST APIs, JSON Encoding & Comprehensive Mock Exams

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