

# 640-911 DCICN Exam Topics Registered

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## 640-911 DCICN Exam Topics

### Exam Description

The 640-911 (DCICN) Introducing Cisco Data Center Networking exam tests and validates a candidate's knowledge of networking concepts for the data center environment, based on Cisco NX-OS, including fundamental information on data center network function, virtualization configuration in the network, addressing schemes, and configuration skills. Candidates can prepare for this exam by taking the Introducing Cisco Data Center Networking (DCICN) course.

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### Exam Topics

The following topics are general guidelines for the content likely to be included on the Introducing Cisco Data Center Networking exam. However, other related topics may also appear on any specific delivery of the exam. In order to better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.

#### 640-911 (DCICN) *Introducing Cisco Data Center Networking* Exam Topics

	Domain Name	Domain Weight
1.00	Describe how a network works	15%
1.01	Describe the purpose and functions of various network devices	
	(a) interpret a network diagram	
	(b) define physical network topologies	

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1.02	Select the components required to meet a network specification	
	(a) switches	
1.03	Use the OSI and TCP/IP models and their associated protocols to explain how data flows in a network	
	(a) IP	
	(b) TCP	
	(c) UDP	
1.04	Describe the purpose and basic operation of the protocols in the OSI and TCP models	
	(a) TCP/IP	
	(b) OSI Layers	
2.00	Configure, verify and troubleshoot a switch with VLANs and interswitch communications using Nexus	21%
2.01	Explain the technology and media access control method for Ethernet networks	
	(a) IEEE 802 protocols	
	(b) CSMA/CD	
2.02	Explain basic switching concepts and the operation of Cisco switches	
	(a) Layer 2 addressing	
	(b) MAC table	
	(c) Flooding	
2.03	Describe and Configure enhanced switching technologies	
	(a) VTP	
	(b) VLAN	
	(c) 802.1q	
	(d) STP	
3.00	Implement an IP addressing scheme and IP Services to meet network requirements in a medium-size Enterprise branch office network using Nexus	12%

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3.01	Describe the operation and benefits of using private and public IP addressing	
	(a) Classfull IP addressing	
	(b) RFC 1918	
	(c) RFC 4193	
3.02	Describe the difference between IPv4 and IPv6 addressing scheme	
	(a) Comparative address space	
	(b) Host addressing	
4.00	Configure, verify, and troubleshoot basic router operation and routing on Cisco devices using Nexus	52%
4.01	Describe and Configure basic routing concepts	
	(a) packet forwarding, router lookup process; e.g. Exec mode, Exec commands, Configuration mode)	
	(b) router lookup process (exaExec mode, Exec commands, Configuration mode)	
4.02	Describe the operation of Cisco routers	
	(a) router bootup process	
	(b) POST	
	(c) router components	