

# Designing for Cisco Internetwork Solutions (DESGN) v2.0

**Vendor Course Code:** DESGN v2.0

**Course Length:** 5 days

**Overview:** This course focuses on the foundational skills and knowledge necessary for professionals entering the specialisation of network design or working as an apprentice to a more experienced network design engineer. Topics include design of routed and switched network infrastructures and services involving LAN, WAN, and broadband access for businesses and organisations, including service virtualisation. The Enterprise Composite Model used in the course facilitates the design, planning, implementation, operation and optimisation (PDIOO) through modular design and focus on the relations between modules.

**Skills Gained:** After completing this course the student should be able to:

- Discuss methodology in network design.
- Describe how to structure and modularise the network design using the Cisco Enterprise Architecture.
- Design the Enterprise Campus and Enterprise Data Centre modules.
- Design the Remote Connectivity modules as needed.
- Design a network addressing plan and select a suitable routing protocol for a given network design.
- Evaluate security solutions for the network.
- Discuss the design implications of voice transport across the network.
- Discuss the design implications of wireless networking.

**Key Topics:**

- Module 1: Applying a Methodology to Network Design
- Module 2: Structuring and Modularising the Network
- Module 3: Designing Basic Campus and Data Centre Networks
- Module 4: Designing Remote Connectivity
- Module 5: Designing IP Addressing and Selecting Routing Protocols
- Module 6: Evaluating Security Solutions for the Network
- Module 7: Identifying Voice Networking Considerations
- Module 8: Identifying Wireless Networking Considerations
- Module 9: Implementing and Operating the Network Design

**Target Audience:**

- Channel Partner / Reseller
- Customer
- Employee

**Prerequisites:** It is strongly recommended that learners have the following skills before attending the DESGN course:

- Cisco CCNA® level knowledge
- Practical experience deploying and operating networks built with Cisco network devices and Cisco IOS software
- CCNP® level knowledge of Cisco switching, as found in the Cisco SWITCH (or BCMSN) courses