

# DNAPUC (PROGRAMMING USE CASES FOR CISCO DIGITAL NETWORK ARCHITECTURE) 1.0

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## Objetivo

After taking this course, you should be able to: Understand the role that programmable infrastructure is having on the transition to the digital enterprise Describe Cisco DNA, its components and benefits, and explain a few use cases Describe the different technologies and solutions within the Cisco programmable infrastructure portfolio Describe Cisco DNA Center REST APIs Understand the functionality provided by Cisco WebEx Teams Describe Cisco CMX, services, and related APIs Describe the importance of DevOps culture within network operations in the shift to becoming a digital enterprise

## Público Alvo

Sales engineers Account managers Networking engineers Technical and non-technical audiences

## Pré-Requisitos

Before taking this course, you should have the following knowledge and skills: CCNA certification or equivalent experience The following Cisco learning offering can help you prepare: Programming for Network Engineers (PRNE)

## Carga Horária

16 horas (2 dias).

## Conteúdo Programático

### Understanding Programmable Infrastructure

- Digital Enterprise
- Four Pillars of Digitization
- Network Programmability and Automation
- What Should Be Automated?
- Quantifying Programmability and Automation for the Business
- Network Programmability and Automation Use Cases

### Introducing Cisco DNA

- Cisco DNA Overview
- Cisco DNA Components
- Benefits of Cisco DNA
- Cisco DNA Use Cases

### **Describing Programmable Infrastructure**

Cisco Programmability Options  
Data Center Infrastructure  
Enterprise Network Programmability  
Streaming Telemetry  
Collaboration  
Management, Monitoring, and Analytics

### **Describing Network APIs**

How APIs Enable Business Automation  
API Overview  
Data Encoding with JSON and XML  
RESTful APIs  
RESTCONF and NETCONF Overview  
Data Modeling with YANG

### **Describing Cisco DNA Center APIs**

Cisco DNA Center Overview  
Cisco DNA Center Automation Enterprise Benefits  
Cisco DNA Center Applications and Use Cases  
Cisco DNA Center REST API Overview  
Case Study: Network Automation at Symantec

### **Describing Cisco Collaboration APIs**

Cisco Webex Teams Overview  
Cisco Webex Teams Business Benefits  
Cisco Webex Teams API Overview

### **Describing Cisco Mobility APIs**

Cisco CMX Overview  
Cisco CMX Programmability Business Benefits  
Cisco CMX Mobility Services API Overview  
Case Study: Victoria University and Cisco CMX

### **Implementing DevOps Culture Within Network Operations**

Transition to DevOps  
CALMS Model (Culture, Automation, Lean, Measurement, Sharing)  
Role of Cisco Technology in the Transition to DevOps