



Cisco IoT Advantage for Systems Engineers v1.0 (700-841)

Exam Description: Cisco IoT Advantage for System Engineers v1.0 tests a candidate's knowledge of Extended Enterprise; Industrial Security; Manufacturing Solutions; Distribution Automation, or secondary substation solutions; Roadway/Intersection solutions; Cisco's Ultra-Reliable Wireless Backhaul; IoT Operations Dashboards and Asset Vision; and Edge Data- Edge Intelligence and IOx. The course Cisco IoT Advantage for System Engineers helps candidates to prepare for this exam.

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

- 15%** **1.0 Extended Enterprise**
 - 1.1 Describe the components for the SD-Access solution
 - 1.2 Explain the Extended Enterprise Solution and CVD
 - 1.3 Describe the use of SD-WAN architecture for IoT products

- 15%** **2.0 Industrial Security**
 - 2.1 Explain the Cisco Cyber Vision solutions architecture and components
 - 2.2 Explain Cisco Cyber Vision Integration with Cisco products
 - 2.3 Describe the value of ISA3000 hardware and software
 - 2.4 Describe the uses of Cyber Vision and ISA3000 in industrial environments

- 10%** **3.0 Manufacturing Solutions**
 - 3.1 Describe manufacturing topology scenarios
 - 3.2 Describe the benefits of supported resiliency Protocols and Reference Architecture
 - 3.3 Describe how Deep Packet Inspection informs process visibility objectives

- 10%** **4.0 Distribution Automation or Secondary Substation Solutions**
 - 4.1 Describe Distribution Automation or Secondary Substation topology scenarios
 - 4.2 Explain use cases focused on distribution grid visibility/control, efficiency, and reliability
 - 4.3 Describe Energy/Utility access connectivity products and solutions

- 10%** **5.0 Roadways/Intersections Solutions**
 - 5.1 Describe roadways and intersection topology scenarios
 - 5.2 Explain High Availability features used by roadway/intersection networks
 - 5.3 Describe Roadside access connectivity products and solutions

- 10%** **6.0 Cisco Ultra-Reliable Wireless Backhaul**
 - 6.1 Describe the Cisco Ultra Reliable Wireless Backhaul solution
 - 6.2 Explain the architecture of the Cisco Ultra-Reliable Wireless Backhaul solution
 - 6.3 Explain the hardware and software of the solution

- 15%** **7.0 IoT Operations Dashboards and Asset Vision**
 - 7.1 Describe IoT Operations Dashboard services
 - 7.2 Explain the IoT Operations Dashboard architecture
 - 7.3 Describe the Industrial Asset Vision solution architecture
 - 7.4 Explain the Gateway and Sensors onboarding process
 - 7.5 Describe Industrial Asset Vision administration

- 15%** **8.0 Edge Data- Edge Intelligence and IOx**
 - 8.1 Describe the architecture of Edge Intelligence
 - 8.2 Explain the use of Edge Intelligence to extract southbound data
 - 8.3 Explain Edge Intelligence data policy
 - 8.4 Explain strategies for Cisco IOx to communicate with IoT sensors
 - 8.5 Describe the hosting and execution environment running on Cisco IOx-capable products
 - 8.6 Explain the purpose of the Docker toolchain with Cisco IOx