



RICXI-150

RUCKUS ICX Implementer Accreditation Exam



HIGHLIGHTS

How to Register

Register online at the [Ruckus Networks Training Portal](#).

Passing Score

68% or better

Questions

30

Exam Duration

60 minutes

Exam Description

As a RUCKUS ICX Implementer, you must be able to describe and deploy RUCKUS ICX routing and switching hardware and software in a production environment. This exam assesses your ability to understand, install and configure RUCKUS ICX products. The RICXI Accreditation, along with an understanding of Layer 2 routing and switching protocols, is a pre-requisite to the Ruckus Certified Networking Associate Certification.

Ideal Candidate

Before attempting the exam, you should have these critical competencies and experience:

- Able to describe different L2 protocols
- Able to describe different networking equipment and where they are found in a network
- Knowledge of Telnet and SSH

Pre-requisites

Before attempting this accreditation exam, you should have completed these recommended courses or have equivalent working knowledge of:

- [Ruckus Routing and Switching Protocols](#)

Target Audience

This certification is designed for network implementers and system administrators tasked with installation, configuration and basic operation of Ruckus ICX networking equipment.

Exam Blueprint

The exam blueprint outlines the range of content that can be included in the exam. Not all objectives have associated questions. The weight indicates approximately how much of the exam content focuses on a section.

Weight	Section Name & Objectives
17%	<p>Foundation Campus concepts</p> <ul style="list-style-type: none">• Define the Campus Fabric topology• Explain the components of the Switch Port Extender (802.1BR) environment• Describe the configuration of the control bridge and port extenders• Define the purpose and benefits of a virtual Ethernet interface• Define the purpose and benefits of loopback interfaces
34%	<p>Campus products and solutions</p> <p>Hardware</p> <ul style="list-style-type: none">• Describe the purpose and benefit of ICX hardware features (PoE, port numbering, replaceable components, status button and indicators)• Identify Ruckus ICX products and their design purpose• Describe the purpose and benefits of stacking• Identify features and benefits of long-distance stacking• Identify supported optics and DAC of various ICX platforms• Identify features and benefits of multi-gig <p>Protocols</p> <ul style="list-style-type: none">• Define the supported types of Spanning Tree Protocol and their benefits• Define Multi-chassis Trunking (MCT), its benefits and scope• Describe discovery protocols <p>Device Management Concepts</p> <ul style="list-style-type: none">• Define the purpose and benefits of the management port• Explain the structure and hierarchy of the ICX CLI• Define the password recovery process• Describe logging and monitoring concepts (syslog, SNMP, terminal monitoring) <p>Firmware</p> <ul style="list-style-type: none">• Define the characteristics of ICX firmware code types (switch and router)• Define the firmware upgrade process on ICX devices (boot monitor, PoE firmware, UFI, TFTP)• Describe the usage of the USB port for upgrade
32%	<p>Implement a Campus solution (install, configure, setup)</p> <p>Firmware & Licensing</p> <ul style="list-style-type: none">• Determine and install appropriate code type (switching or routing)• Identify and install appropriate firmware version (Target Path, release notes)• Describe the various software licenses available for ICX devices, and the Installation process <p>Initial configuration</p> <ul style="list-style-type: none">• Configure initial device connection (console, Telnet, SSH, HTTP/HTTPS)• Configure the management port• Configure user accounts and authentication (AAA, RADIUS, and TACACS+)• Describe the process to set up device monitoring (external Syslog servers)

	<ul style="list-style-type: none"> • Describe how to Configure VLANs and VEs • Describe how to Enable various types of STP • Configure stacking using stack interactive setup and zero touch stacking • Explain and configure 802.1X port-based access control • Describe and configure ICX SmartZone connectivity • Reset to factory default switch <p>Interface configuration</p> <ul style="list-style-type: none"> • Apply Layer 3 addressing to physical and virtual ports • Configure port speed/duplex • Describe how to assign a port to a VLAN (tagged, untagged) • Describe how to enable or disable ports • Configure dynamic and static LAGs • Configure PoE port parameters <p>Validation</p> <ul style="list-style-type: none"> • Verify interface configuration and port status
17%	<p>Troubleshoot and repair a Campus solution</p> <p>Troubleshooting Tools</p> <ul style="list-style-type: none"> • Describe how to collect tech support information (show tech) • Use ICMP tools to troubleshoot connectivity (ping, traceroute) • Use show command output to troubleshoot basic issues (interface, media, MAC) • Use show and clear commands to validate and verify functionality of basic features (STP, LAG, interfaces, VLANS) • Display and interpret basic Syslog output <p>Maintenance</p> <ul style="list-style-type: none"> • Describe how to backup and restore configurations • Describe stack/Campus Fabric member replacement and addition

Study Materials

Course Name and Description	<p>Ruckus ICX Implementer Online Training Course (ICX 150)</p> <p>This self-paced, web-based training course concentrates on the duties performed by a network implementer within a typical network environment and focuses on the Ruckus ICX series of switches running FastIron 8.0.90. Features and functions covered in this course include, Ruckus technologies, hardware architecture, software upgrades, basic CLI configuration, layer 2 feature configuration along with device access and security.</p>
Product Documentation	<p>These resources are provided as secondary materials to assist in your exam preparation. If you did not take the ICX 150 course, you should review these materials as they were used to create the course. The course and exam were based on FastIron firmware version 8.0.90.</p> <p>Product Manuals</p> <ul style="list-style-type: none">• ICX 150 Ruckus ICX Implementer Student Guide• Ruckus ICX Switch Port Extender Deployment Guide• FastIron 08.0.90 Stacking Configuration Guide• FastIron 08.0.90 Software Licensing Guide• FastIron 08.0.90 Software Upgrade Guide• FastIron 08.0.90 Management Configuration Guide• Ruckus ICX Switch Family Brochure• FastIron 08.0.90 Monitoring Configuration Guide
Online Resources:	<ul style="list-style-type: none">• Ruckus Networks Training Portal• Ruckus Networks Support Website