

ALCATEL-LUCENT TRIPLE PLAY ROUTING PROFESSIONAL



The Alcatel-Lucent Triple Play Routing Professional (3RP) certification is designed to provide participants with the skills needed to design and build advanced, broadband residential networks and services based on the Alcatel-Lucent Service Routing portfolio. Upon completing the certification, participants will understand how to build broadband network infrastructures to accommodate sophisticated blends of IPTV, fixed and mobile voice, IP multimedia and managed online services.

MARKET NEED

- Television, voice services and the Internet are undergoing a rapid transformation, adding a new blend of bandwidth intensive multi-media and video applications that add an entirely new dimension to the underlying broadband network.
- Emerging IP-based multimedia services and Web 2.0 content and applications drive unprecedented growth in capacity and Quality of Service. Service providers must take an active role in enabling services, applications and content that run over a converged broadband access network.
- Service providers need to accommodate and support the new demands for content-rich applications and bandwidth-intensive services.
- User-centric broadband services – any content to any user at any time – need to be delivered in the most efficient and cost-effective way.
- The user experience must be enhanced and be more interactive.
- Service providers are looking to evolve their network support staff's aptitude in IP and triple play services.

CERTIFICATION OBJECTIVES

- Provide the training required to enable triple play network transformations in large-scale IPTV rollouts around the world.
- Provide the skill set to design, operate and troubleshoot triple play networks.
- Provide the ability to evaluate the optimal implementation scenarios for triple play services such as broadcast TV and video on demand (VoD).
- Provide an in-depth understanding of IP routing protocols such as open shortest path first (OSPF) and intermediate system-to-intermediate system RIP.

- Provide an understanding of Layer 2 and Layer 3 multicast capabilities.
- Provide a thorough knowledge of quality of service (QoS) and how it pertains to the different data, voice and video services, as well as techniques for reducing jitter, packet loss and latency.
- Develop the knowledge to deploy highly reliable and scalable virtual private LAN service (VPLS) designs.
- Provide an enhanced career path with industry-leading certification that is recognized worldwide.

BENEFITS

- Alcatel-Lucent certification brings valuable, measurable rewards to network professionals and their employers.
- This certification builds competitive advantage with a knowledgeable team that can improve the customer service experience.
- Students will receive real-world experience with in-depth, hands-on training.
- Career paths are enhanced with industry-leading certification. Students gain the skills and credibility to work in complex network environments.
- Service providers deploying Alcatel-Lucent's triple play solution recognize the Alcatel-Lucent Triple Play Routing Professional certification worldwide.
- In addition to the Alcatel-Lucent Triple Play Routing Professional certification, network professionals can further enhance their networking knowledge by obtaining the Alcatel-Lucent Service Routing Architect certification.

ABOUT THE TRIPLE PLAY SERVICES CERTIFICATION

To achieve certification, participants only need to pass the required written and lab exams – attending the recommended courses are optional. Refer to the tables below for certification requirements.

The 3RP certification is valid for three years. You must recertify to ensure your certification stays current. Re-certification requirements are available at <http://www.alcatel-lucent.com/src/recertification>. Ensure you continue to benefit from having earned an industry respected IP designation by recertifying within your recertification eligibility period.

For more information on the Alcatel-Lucent SRC Program, contact your local Alcatel-Lucent account representative or visit <http://www.alcatel-lucent.com/src>.

CREDIT FOR OTHER IP CERTIFICATIONS

If you have already received an IP certification from Cisco or Juniper, and your certification is still valid, you may be eligible to receive credit towards prerequisite written exams in the Alcatel-Lucent Service Routing Certification program. To find out which third-part certifications are eligible for credit, which SRC exam exemptions you may be qualified to receive, and instructions on how to request an exemption, please visit the <http://www.alcatel-lucent.com/src/exemptions> web page. Please note that your third-party certification must be current/active to receive credit.

ALCATEL-LUCENT TRIPLE PLAY ROUTING PROFESSIONAL (3RP) CERTIFICATION**COURSE AND WRITTEN EXAM**

Please note, participants have the option of writing the [NRS II Composite Exam](#) (4A0-C01) as a substitute/replacement for writing the three individual NRS II written exams below (4A0-101, 4A0-103, 4A0-104).

RECOMMENDED COURSES	COURSE DURATION (DAYS)	MANDATORY EXAM	MANDATORY EXAM PRE-REQUISITES
Alcatel-Lucent Scalable IP Networks	4	4A0-100	NA
Alcatel-Lucent Interior Routing Protocols	5	4A0-101	NA
Alcatel-Lucent Multiprotocol Label Switching	5	4A0-103	NA
Alcatel-Lucent Services Architecture	4	4A0-104	NA
Alcatel-Lucent Quality of Service	5	4A0-107	NA
Alcatel-Lucent Triple Play Services	5	4A0-109	NA

**Note, students have the option of writing the [NRS II Composite Exam](#) (4A0-C01) as a substitute for writing the 4A0-101, 4A0-103, and 4A0-104 individual exams above.

PRACTICAL LAB EXAM

After completing the required written exams, students are required to complete the following practical lab exam, which tests their ability to configure and troubleshoot a managed communications network.

MANDATORY EXAM	EXAM DURATION (HOURS)	MANDATORY EXAM	MANDATORY EXAM PRE-REQUISITES
Alcatel-Lucent Network Routing Specialist II Lab Exam	3.5	NRSII4A0	4A0-100, 4A0-101, 4A0-103, 4A0-104