

Sep 10, 2018

Dear KAPENA PETER LUMUMBA

hands-on, lab-oriented course has prepared you for tremendous career opportunities. and Switching Essentials course as part of the Cisco Networking Academy® program. This I want to congratulate you on completing the Cisco® CCNA Routing and Switching: Routing

Routing and Switching Essentials, and acquired the following capabilities: You have achieved student level credential for completing CCNA Routing and Switching:

- Determine how a router will forward traffic based on the contents of a routing table
- Explain how switching operates in a small to medium-sized business network
- Use monitoring tools and network management protocols to troubleshoot data networks.
- Configure monitoring tools available for small to medium-sized business networks
- Configure initial settings on a network device.
- Configure Ethernet switch ports.
- Implement VLANs.
- Implement static routing and RIPv2.
- Implement DHCP on a router.
- Implement network address translation (NAT).
- Implement access control lists (ACLs) to filter traffic.

you with the knowledge and skills necessary to build and maintain digital networks. In today's world, technical literacy is more important than ever, and Cisco is proud to provide

Keep up the great work and best wishes for continued future success

Sincerely,

Chalo H Rek

Chuck Robbins
Chairman and Chief Executive Officer
Cisco



Certificate of Course Completion

CCNA Routing and Switching: Routing and Switching Essentials

The student has successfully achieved student level credential for completing CCNA Routing and Switching and Switching Essentials course administered by the undersigned instructor. The student was able to proficiently:

- Configure initial settings on a network device.
- Configure Ethernet switch ports.
- Implement VLANs.
- Implement static routing and RIPv2.
- Implement DHCP on a router.
- Implement network address translation (NAT).
 Implement access control lists (ACLs) to filter traffic.

- Determine how a router will forward traffic based on the contents of a routing table.
- Explain how switching operates in a small to medium-sized business network.
- Use monitoring tools and network management protocols to troubleshoot data networks.
- Configure monitoring tools available for small to mediumsized business networks.

KAPENA PETER LUMUMBA

Student

CPUT Electrical Engineering Academy

Academy Name

South Africa

Location

oyoM izumuzuV

Instructor

Instructor Signature

Sep 10, 2018

Date



Certificate of Course Completion

CCNA Routing and Switching: Introduction to Networks

The student has successfully achieved student level credential for completing CCNA Routing and Switching: Introduction to Networks course administered by the undersigned instructor. The student was able to proficiently:

- Design an IP addressing scheme to provide network.
 connectivity for a small to medium- sized business network.
- Configure initial settings on a network device.
- Implement basic network connectivity between devices.
 Configure monitoring tools available for small to mediumsized business networks.

- Explain network technologies.
- Explain how devices access local and remote network resources.
- Describe router hardware.
- Explain how switching operates in a small to medium-sized business network.

KAPENA PETER LUMUMBA

Student

CPUT Electrical Engineering Academy

Асадету Иате

South Africa

Sep 10, 2018

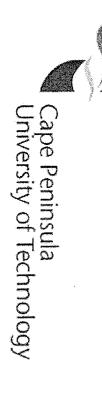
Date

Location

oyoM izumuzuV

Instructor

Instructor Signature



Department of Electrical Engineering

Enquiry: PR Tjale

(021) 959 5850

tjalepr@cput.ac.za

Bellville Campus

16 July 2018

TO WHOM IT MAY CONCERN

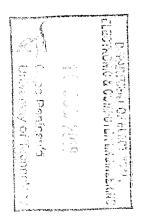
commence with WORK INTEGRATED LEARNING. Engineering Department. This letter further verifies that he has met the requirements to bona fide student at the Cape Peninsula University of Technology (CPUT) in the Electrical This serves to confirm that Mr. Kapena Peter Lumumba, Student Number 217 016 375

theoretical studies at CPUT.CPUT welcomes and appreciates any opportunity of WORK months of relevant WORK INTEGRATED LEARNING in industry, in addition to 24 months of INTEGRATED LEARNING that an employer offers, in order that our students can realize their Before the National Diploma may be awarded to the student, he/she is required to undergo 12 academic goals

For any further information, please contact the writer using the contacts details above

Yours sincerely

PR Tjale
WIL Coordinator





Sep 10, 2018

Dear KAPENA PETER LUMUMBA

hands-on, lab-oriented course has prepared you for tremendous career opportunities Introduction to Networks course as part of the Cisco Networking Academy® program. This I want to congratulate you on completing the Cisco® CCNA Routing and Switching:

Introduction to Networks, and acquired the following capabilities: You have achieved student level credential for completing CCNA Routing and Switching:

- Explain network technologies.
- Explain how devices access local and remote network resources
- Describe router hardware
- Explain how switching operates in a small to medium-sized business network
- sized business network. Design an IP addressing scheme to provide network connectivity for a small to medium-
- Configure initial settings on a network device
- Implement basic network connectivity between devices.
- Configure monitoring tools available for small to medium-sized business networks

In today's world, technical literacy is more important than ever, and Cisco is proud to provide you with the knowledge and skills necessary to build and maintain digital networks.

Keep up the great work and best wishes for continued future success

Sincerely,

Male H RW.

Chuck Robbins

Chairman and Chief Executive Officer