



Cisco Networking Academy®

Mind Wide Open™

Certificate of Course Completion

## CCNA Routing and Switching: Routing and Switching Essentials

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student was able to proficiently:

- Understand and describe basic switching concepts and the operation of Cisco switches
- Understand and describe enhanced switching technologies
- Understand and describe dynamic routing protocols, distance vector routing protocols, and link-state routing protocols
- Configure and troubleshoot basic operations in a small switched and routed network
- Configure and troubleshoot VLANs and inter-VLAN routing
- Understand and describe the purpose and types of access control lists (ACLs)
- Configure, monitor, and troubleshoot ACLs for IPv4 and IPv6
- Understand and describe the operations and benefits of Dynamic Host Configuration Protocol (DHCP) and Domain Name System (DNS) for IPv4 and IPv6
- Understand and describe the operations and benefits of Network Address Translation (NAT)
- Configure and troubleshoot NAT operations

**Abd. Aziz Bouty**

Student

Electrical Engineering and Information Technology Dept, Gadjah Mada University

Academy Name

Indonesia

Location

EKO PRASETYO

Instructor

Aug 14, 2015

Date

Instructor Signature

  
**ITC**  
Instructor Training Center  
