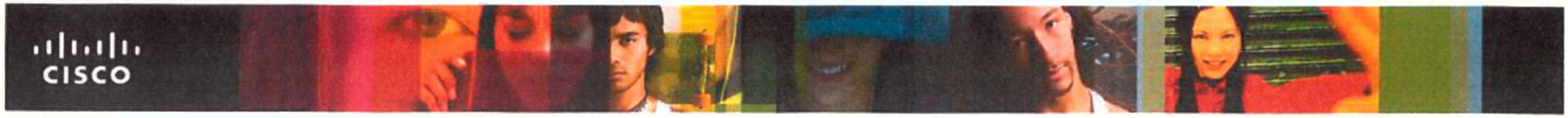
Berufsschule I
Fachschule für
Mechatroniktechnik
(Technikerschule)
Berufsfachschule für
technische Assistenten
für Informatik

Staatliches Berufliches
Schulzentrum Bamberg



Certificate of Course Completion

CCNA 2 Router and Routing Basics

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

- Identify the important characteristics of common WAN configurations and technologies, and describe the role of a router in a WAN
- Identify the major internal and external components of a router and describe the associated functionality
- Describe the purpose and fundamental Operation of the router operating System (IOS)
- Perform, save, and test router configurations
- Identify, configure, and verify the use of static and default routes
- Evaluate the characteristics of routing protocols
- Identify, analyze, and troubleshoot simple distance vector routing protocols
- Use the commands incorporated within Cisco IOS Software to analyze and rectify network problems
- Describe the Operation of the major transport layer protocols and the interaction and transportation of application layer data
- Analyze, configure implement verify and rectify access control lists within a router configuration

Selimllari Fation

Student

Staatliche Berufsfachschule für Technische Assistenten für Informatik — *19.06.2017*

Academy Name — **Date**

Schmid Gerhard

Instructor — **Instructor Signature**

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Certificate of Course Completion

CCNA 3 Switching Basics and Intermediate Routing

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

- Use Variable Length Subnet Masking (VLSM) techniques to design and implement effective and efficient IP addressing
- Describe, configure, verify, analyze, and troubleshoot the RIP v2 and EIGRP routing protocols.
- Describe the concepts and techniques of link-state routing and compare and contrast with distance vector routing.
- Describe, configure, verify, analyze, and troubleshoot the OSPF protocol in a single area mode of operation.
- Troubleshoot routing protocol problems, specifically using and interpreting the show and debug commands.
- Describe and compare the concepts, operations and techniques used within Ethernet switched LANs.
- Describe, configure, and administer Cisco LAN Switches.
- Design a simple LAN using layered techniques.
- Compare and contrast various forms of redundancy built into networks, and describe the operation and implementation of the spanning-tree algorithm.
- Describe, configure, administer, and troubleshoot VLANs, InterVLAN Routing and VLAN Trunking.

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CCNA 1 Networking Basics

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

- Identify and describe IP Address Classes
- Proficient in IP address subnetting techniques
- Describe the purpose of the OSI Model and the functions of each layer
- Describe the process of data encapsulation
- Describe and apply CAT 5 cabling standards
- Proficient in planning, designing, and installing work group and peer-to-peer LAN's
- Describe the purpose of the TCP/IP Protocol Stack (DoD Model) and the functions of each layer
- Proficient in detailing the specifications of Ethernet
- Identify and describe Ethernet families (10BaseT, Fast Ethernet)
- Describe the function of MAC addresses

Selimllari Fation

Student

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Schmid Gerhard

Instructor **Instructor Signature**