

Syllabus for the Switching, Routing and Wireless Essentials course

Week 1 Connecting to a network device using a console cable (console) and as a terminal device (SSH)

Week 2 Basic Device Configuration

Labs at school:

- 1.1.7 Lab - Basic Switch Configuration
- 1.6.2 Lab - Configure Basic Router Settings

Homeworks:

- 3.2.8 Packet Tracer - Investigate a VLAN Implementation
- 3.3.12 Packet Tracer - VLAN Configuration
- 3.4.5 Packet Tracer - Configure Trunks
- 3.4.6 Packet Tracer - Configure VLAN and Trunking – Physical Mode
- 3.5.5 Packet Tracer – Configure DTP

Week 3 Switching Concepts, VLAN

Labs at school:

- 3.4.6 Lab - Configure VLANs and Trunking
- 3.6.1 Lab - Implement VLANs and Trunking

Homeworks:

- 4.2.7 Packet Tracer - Configure Router-on-a-Stick Inter-VLAN Routing
- 4.3.8 Packet Tracer - Configure Layer 3 Switching and Inter-VLAN Routing
- 4.4.8 Packet Tracer - Troubleshoot Inter-VLAN Routing
- 4.4.9 Packet Tracer – Troubleshoot Inter-VLAN Routing – Physical Mode
- 4.5.1 Packet Tracer - Inter-VLAN Routing Challenge

Week 4 Inter-VLAN Routing

Labs at school:

- 4.2.8 Lab - Configure Router-on-a-Stick Inter-VLAN Routing
- 4.4.9 Lab - Troubleshoot Inter-VLAN Routing
- 4.5.2 Lab - Implement Inter-VLAN Routing

Homeworks:

- 5.1.9 Packet Tracer - Investigate STP Loop Prevention
- 6.2.4 Packet Tracer - Configure EtherChannel
- 6.3.4 Packet Tracer - Troubleshoot EtherChannel
- 6.4.1 Packet Tracer - Implement Etherchannel

Test Modules 1 - 4: Switching Concepts, VLANs, and InterVLAN Routing Exam

Week 5 STP, EtherChannel

Labs at school:

- 6.4.2 Lab - Implement Etherchannel

Homeworks:

- 7.2.10 Packet Tracer - Configure DHCPv4
- 7.4.1 Packet Tracer - Implement DHCPv4

Test Modules 5 - 6: Redundant Networks Exam

Week 6 DHCP v4, SLAAC, DHCP v6

Labs at school:

- 7.4.2 Lab - Implement DHCPv4
- 8.5.1 Lab - Configure DHCPv6

Homeworks:

příprava na SRWE Practice PT Skills Assessment (PTSA) - Part 1

Week 7 SRWE Practice PT Skills Assessment (PTSA) - Part 1

Homeworks:

- 9.3.3 Packet Tracer - HSRP Configuration Guide
- 9.3.4 Packet Tracer - HSRP Configuration Guide

test Modules 7 - 9: Available and Reliable Networks Exam

Week 8 FHRP Concepts

Labs at school:

- 11.6.2 Lab - Switch Security Configuration

Homeworks:

- 11.1.10 Packet Tracer - Implement Port Security
- 11.6.1 Packet Tracer - Switch Security Configuration
- 13.1.10 Packet Tracer - Configure a Wireless Network
- 13.2.7 Packet Tracer - Configure a Basic WLAN on the WLC

Week 9 LAN Security Concepts, Switch Security Configuration

Labs at school:

- 13.1.11 Lab - Configure a Wireless Network

Homeworks:

- 13.3.12 Packet Tracer - Configure a WPA2 Enterprise WLAN on the WLC
- 13.4.5 Packet Tracer - Troubleshoot WLAN Issues
- 13.5.1 Packet Tracer - WLAN Configuration
- 13.5.2 Packet Tracer – Wirelsss Technology Exploration – Physical Mode

Test Modules 10 - 13: L2 Security and WLANs Exam

Week 10 WLAN Concepts, IP Static Routing

Labs at school:

- 15.6.2 Lab - Configure IPv4 and IPv6 Static and Default Routes

Homeworks:

- 14.3.5 Packet Tracer - Basic Router Configuration Review

test Modules 14 - 16: Routing Concepts and Configuration Exam

Week 11 Routing Concepts, IP Static Routing

Labs at school:

- 16.3.2 Lab - Troubleshoot IPv4 and IPv6 Static and Default Routes

Homeworks:

- 15.6.1 Packet Tracer - Configure IPv4 and IPv6 Static and Default Routes
- 16.3.1 Packet Tracer - Troubleshoot Static and Default Routes
- 16.3.2 Packet Tracer - Troubleshoot IPv4 and Ipv6 Stat. and Def. Routers – Physical Mode

Week 12 Troubleshoot Static and Default Routes

SRWE Practice PT Skills Assessment (PTSA) - Part 2

Week 13

Final Exam