MikroTik Certified Traffic Control Engineer

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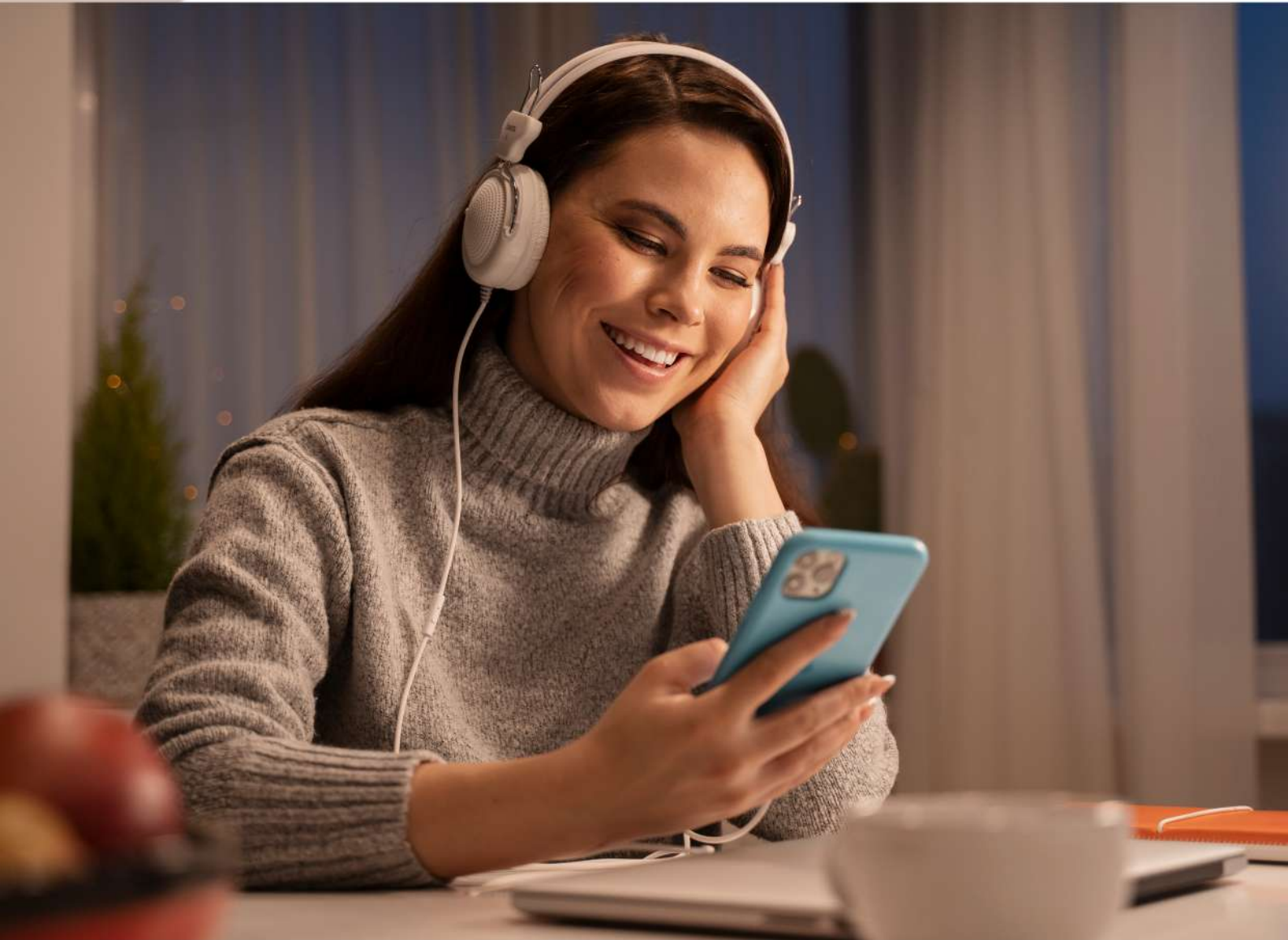
Online Course

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Course Modules

1. Packet Flow Diagram

- Why this diagram is necessary?
- Full overview of all things covered by the diagram
- Simple examples how packet travels through the diagram
  - Routing
  - Bridging
  - Connection to router
- More complex examples of diagram usage

2. Firewall Filter, NAT, Mangle

- Connection tracking
- Filter
  - Chains (default/custom)
  - All rule "actions" covered
  - Most common rule "conditions" covered
- NAT
  - Chains (default/custom)
  - All rule "actions" covered
  - Most common rule "conditions" covered
  - NAT helpers

- Mangle
  - Chains (default/custom)
  - All rule "actions" covered
  - Most common rule "conditions" covered
- Some complicated rule "conditions" covered ("advanced", "extra")
- UPnP

3.Quality of Service
- HTB
  - HTB general information
  - HTB implementation (queue tree)
  - HTB structure
  - HTB Dual Limitation
  - HTB priority
- Burst
- Queue types
  - FIFO
  - SFQ
  - RED
  - PCQ
  - Queue size
- Simple queues
- Simple queue and queue tree interaction

4.DNS Client, Cache

- Basic configuration
- Static DNS Entry

5.DHCP Client, Relay, Server

- DHCP communication analysis
- DHCP client identification/configuration
- DHCP server configuration:
  - DHCP networks
  - DHCP options (build-in and custom)
  - IP Pool
  - Advanced DHCP
- DHCP relay configuration

6.Web Proxy

- Basic configuration
- Proxy rule lists
  - Access list
  - Direct Access list
  - Cache list
- Regular expression

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in terms of time management,
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