

**Course Competencies**

1. List the required IPX™
2. Define address and encapsulation type.
3. Configure IPX access lists and SAP filters to control basic Novell traffic.
4. Enable the Novell IPX protocol and configuration interfaces.
5. Monitor Novell IPX operation on the router.
6. Describe the advantages of LAN segmentation.
7. Describe LAN segmentation using bridges.
8. Describe LAN segmentation using routers.
9. Describe LAN segmentation using switches.
10. Name and describe two switching methods.
11. Describe full-and half-duplex Ethernet operation.
12. Describe network congestion problem in Ethernet networks.
13. Describe the benefits of network segmentation with bridges.
14. Describe the benefits of network segmentation with routers.
15. Describe the benefits of network segmentation with switches.
16. Describe the features and benefits of Fast Ethernet.
17. Describe the guidelines and distance limitations of Fast Ethernet.
18. Distinguish between cut-through and store-and –forward LAN switching.
19. Describe the operation of the Spanning Tree Protocol and its benefits.
20. Describe the benefits of virtual LANs.
21. Add and configure the IGRP protocol to the router configuration.
22. Configure standard and extended access control lists to filter IP traffic.
23. Monitor and verify access control list operation on the router.