# PORTFOLIO ASSESSMENT GUIDE for

# CYB 253 Networking III

**What is a Portfolio**:

A Portfolio is a formal means of requesting assessment of your prior work/life experience from which you have developed sufficient college-level learning to earn credit for a specific class.

**Purpose of this Guide**:

This document is intended for student self-assessment purposes only. Review it carefully to determine if you are ready to write and submit a Portfolio for the course indicated above. Your self-assessment is not a guarantee that you will be awarded credit for the course. Faculty with expertise in the subject matter will evaluate whether your Portfolio provides sufficient evidence that you have demonstrated appropriate college-level mastery of the course content through experiential learning.

# General Guidelines:

* All work must be word-processed, except for documentation provided.
* Written portions should demonstrate college-level writing skills, including appropriate citations for any quoted or paraphrased material from other sources.
* Use the provided template, located on **page 3** of the guide, to format the portfolio appropriately.
* Your Portfolio will not be returned. Make copies of the contents before you submit. You may include clear copies of documentation and keep the originals.
* Submit your completed Portfolio, along with the approved Course Portfolio Assessment Form, to the Adult Learning Programs Office.

# Determination of Portfolio Assessment Outcome:

You will need to do the following to be awarded credit through Portfolio Assessment for this course:

* Provide all required documentation as listed within the template to support the Learning Outcomes.
* Possibly participate in an interview with the Portfolio evaluator.
* When evaluated, students must demonstrate experience or proficiency in >=70% to earn credit in the course.

|  |  |
| --- | --- |
| [Course Number]: Portfolio Assessment | |
| Skill/Outcome | Score |
|  |  |
| **Provide documentation of successfully passing the Cisco CCN certification exam** | 100 |
|  |  |
| In extenuating circumstances competencies can be met through extensive industry experience confirmed by employer |  |
| Total Score | /100 |



CREDIT FOR PRIOR LEARNING PORTFOLIO

[COURSE NUMBER AND TITLE]

[DATE]

BY

[YOUR NAME]

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Statement of Academic Honesty

The material contained in this Portfolio honestly and accurately reflects my life, learning, and work experience. I understand that the penalty for falsifying any information or documentation will result in an award of no credit for the Portfolio with no resubmission allowed and may result in other sanctions as described in the Student Code of Conduct.

Print Name LCSC ID Number

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature Date

Course Description

**CYB-253 NETWORKING III - 4 Credits**

This course comprehensively covers Ethernet LANs, command-line interface, LAN switching, networking protocols, subnets, and many more. The gives student's the knowledge and skills required to install, configure, and operate a small to medium-sized network. This course provides foundational knowledge in the essentials of networking, security, and automation. In this course students will gain the skills required to pass the Cisco CCNA certification exam. The lab is versatile and delivers hands-on experience, replacing expensive physical labs. Pre-Req: CYB 252

Learning Outcomes

Upon successful completion of this course, you should be able to demonstrate the following competencies:

1. List the Interfaces in a Router

2. Configure a Router

3. Verify IP Addresses on Cisco Routers

4. Use the show ip route Command

5. Display a Router’s IP ARP Table

6. Configure Static and Default Routing

7. Ping a Host Using a Router

8. Ping a Host Using PC

9. Use the traceroute Command

10. Show Telnet Login From R1 to R2 to View the Status of the Interface on R2

11. Add an IPv6 Address

12. Configure Static IPv6 Addresses on R1 and R2

13. Configure And Verifying NetFlow and NetFlow Data Export and Top Talkers

14. Display IPv6 Routes

15. Reject the ipv6 route Command with Link-Local and No Outgoing Interface

16. Create and Apply an ACL at the CLI Using Named Access List Configuration

17. Add to and Display a Numbered ACL Configuration

18. Use Ettercap for ARP Spoofing

19. Spoof MAC Address

20. Perform a DDoS Attack Using cmd

21. Use Dig for Passive Reconnaissance

22. Use nslookup for Passive Reconnaissance

23. Encrypt IOS Passwords with the service password-encryption Command

24. Encode a Password as Type 5 (MD5)

25. Create a New VLAN and Placing Switch Ports into that VLAN

26. Configure Interfaces as Trunk Ports

27. Configure Port Fast and Rapid Spanning Tree

28. View the IP Address, Mask, and Default Router Settings on Windows

29. View the IP Address, Mask, and Default Router Settings on Linux

30. Configure DHCP Snooping

31. Disable the Timestamp and Enabling a Sequence Number in Log Messages

32. Configure Syslog and Viewing Settings on a Router

33. See Severity 3 and 5 Messages at the Console and Severity 3 Only in the Buffer

34. Set the Date, Time, Timezone, and Daylight Savings Time

35. Configure a CIDR Based IP Network

36. Configure Network Address Translation

37. Show Cisco IOS File Systems Configuration on a Router

38. Show Small Output from a Switch Command

Topics Covered:

* • RSTP and EtherChannel Configuration
* • IPv4 Subnetting
* • Classful IPv4 Networks
* • Subnet Masks
* • Existing Subnets
* • Operating Routers
* • Configuring IPv4 Addresses
* • Static Routes
* • IP Routing in the LAN
* • Troubleshooting IPv4 Routing
* • OSPF
* • OSPF Network Types and Neighbors
* • IPv6 Addressing and Subnetting
* • Implementing IPv6 Routing
* • Wireless Networks and Architectures
* • Securing Wireless Networks
* • Building Wireless LAN

Educational Goals

**Goals, Motivation, and Time Frame**

What are your goals? What are the reasons (professional and personal) you are pursuing your goals? What is a realistic time frame for completing your education?

**Prior Learning to Goals**

How will the prior learning credit you are requesting fit into your future educational and career goals?

Chronological Resume

Include a chronological resume that will support your request for prior learning. List all jobs held, including volunteer work, as they relate to the course that you are trying to receive credit. List duties, skills and expertise used in performing job tasks. When possible, use language similar to that used in the Learning Outcomes for the course.

Examples of Experience:

* Employment, Work Experience
* Workshops, Webinars, Training, Seminars, Professional Development
* Volunteer Activities, Community Service, Committees, Groups
* Military Experience, Occupations, Training
* Licenses, Certificates, Industry Credentials
* Non-credit Courses
* Publications

Learning and Experience Autobiography

The autobiography will serve as an introduction to the evaluator and help them understand the context of your learning for the particular course you are requesting. It is a complete picture of you and your experiences as it relates to the course for which you are creating this portfolio. Relate the relevant experiences to the course in a general explanation (Specifics will be included in the Acquired Learning and Knowledge Narrative). Demonstrate why you have selected this particular course and detail your work and life experiences using your resume as a guide.

This should be two+ pages and summarize the significant learning experiences in your life and describe how your experiences will validate your knowledge of the course content and meet the course outcomes being petitioned for credit.

Acquired Learning and Knowledge Narrative

The narrative is a detailed explanation of how your activities and the resulting competencies were achieved. This is to complement your resume and autobiography. Be sure to link your accomplishments to the course learning outcomes. This will be similar to your autobiography but will detail your chronological work and life experience history while focusing on the things you have already learned through training and experiences, as it relates to your target course.

Note that a key goal of this section is the learning process itself as you reflect on how your experience relates to key concepts within the learning outcomes in the target course. Clearly focus on the learning objectives (what you know and can do) rather than the experience.

For each experience indicated within the Portfolio, the student must:

* Label each heading, Learning Outcome 1, Learning Outcome 2, etc.
* Include the experience; time spent in activity; description of duties and activities.
* Describe the learning and how it relates to the Learning Outcomes for the course.
* Describe how the learning was acquired.
* Provide documentation as evidence of the experience in relation to the course learning outcomes, and as an indication of the level and appropriateness of content.
* Describe how this experience has influenced and impacted other areas of your life.

This will be 2+ pages in length. Make sure it is clear, concise, and free of errors in sentence structure, grammar, and spelling. It needs to demonstrate college-level writing and critical thinking.

Bibliography

**This is not required.** The bibliography will include any reading done on the course subject. If you have studied manuals or used other texts to gain your prior learning, include them here. References should be cited in American Psychological Association (APA) style, but your instructor may suggest another format.

Documentation

Each of your experiences and competencies will require verification (evidence). This evidence can take several forms:

* Completion of training programs, workshops, seminars, etc., may be verified through:
  + Certificates
  + Personnel records
* Performance reviews showing competencies
* Job descriptions
* Transcripts
* Samples of work
* A videotape of your speech, theatre work, or music recital
* Licenses
* Honors or Awards
* Samples of your painting, drawing, photography, or ceramics for a studio art course
* Certificates of attendance
* Letters of verification listing proven competencies from instructors or employers
* Products designed or created by you
* Military records

Each piece of documentation for a workshop or training program must be accompanied by a description page of content for each workshop, training program, or seminar and must show how the evidence relates to the course learning outcomes.