



Experiential Learning Portfolio for 32451367 Broadband Fiber Services 101

Student Contact Information:

Name: _____ Student ID# _____

Email: _____ Phone: _____

It is highly recommended that you speak with the Academic Dean or instructor who teaches this course prior to completing a portfolio.

Directions

Consider your prior work, military, volunteer, education, training and/or other life experiences as they relate to each competency and its learning objectives. Courses with competencies that include speeches, oral presentations, or skill demonstrations may require scheduling face-to-face sessions. You can complete all of your work within this document using the same font, following the template format.

1. Complete the Student Contact Information at the top of this page.
2. Write an Introduction to the portfolio. Briefly introduce yourself to the reviewer summarizing your experiences related to this course and your future goals.
3. Complete each "Describe your learning and experience with this competency" section in the space below each competency and its criteria and learning objectives. Focus on the following:
 - What did you learn?
 - How did you learn through your experience?
 - How has that learning impacted your work and/or life?
4. Compile all required and any suggested artifacts (documents and other products that demonstrate learning).
 - Label artifacts as noted in the competency
 - Scan paper artifacts
 - Provide links to video artifacts
 - Attach all artifacts to the end of the portfolio
5. Write a Conclusion for your portfolio. Briefly summarize how you have met the competencies.
6. Proofread. Overall appearance, organization, spelling, and grammar will be considered in the review of the portfolio.
7. Complete the Learning Source Table. Provide additional information on the business and industry, military, and/or volunteer experiences, training, and/or education or other prior learning you mentioned in your narrative for each competency on the Learning Source Table at the end of the portfolio. Complete this table as completely and accurately as possible.

The portfolio review process will begin when your completed portfolio and Credit for Prior Learning Form are submitted and nonrefundable processing fees are paid to your local Credit for Prior Learning contact. Contact Student Services for additional information.

Your portfolio will usually be evaluated within two weeks during the academic year; summer months may be an exception. You will receive an e-mail notification regarding the outcome of the portfolio review from the Credit for Prior Learning contact. NOTE: Submission of a portfolio does not guarantee that credit will be awarded.

You have 6 weeks to appeal any academic decision. See your student handbook for the complete process to appeal.

To receive credit for this course, you must receive “Met” on 6 of the 7 competencies.

32451367 Broadband Fiber Services 101, 1 Technical Diploma Credit

Course Description: This course will introduce the students to industry specifications and practices for understanding fiber optic communication systems. Topics covered include fiber optic design, installation, test and maintenance for multimode and singlemode networks.

Introduction: Briefly introduce yourself to the reviewer summarizing your experiences related to this course and your future goals.

Competency 1: Explain the evolution of fiber optic networks

Criteria: Performance will be satisfactory when:

- presentation explains FTTX Service
- presentation outlines the timeline of FTTX services

Learning Objectives:

- a. Examine the history of fiber optics
- b. Identify key components of fiber optic networks throughout history

Required Artifacts: None

Suggested Artifacts: None

Describe your learning and experience with this competency:

Met/ Not Met Evaluator Feedback:

Competency 2: Compare fiber optic cable characteristics

Criteria: Performance will be satisfactory when:

- presentation identifies buried cables
- presentation identifies overhead cables
- presentation identifies quantity of fiber strands in a cable
- presentation identifies single or multi-mode fiber
- learner compares and contrasts cables and fibers

Learning Objectives:

- a. Differentiate between overhead and buried cables
- b. Identify quantity of fiber strands
- c. Differentiate between single and multi-mode fiber cables

Required Artifacts: None

Suggested Artifacts: None

Describe your learning and experience with this competency:

Met/ Not Met Evaluator Feedback:

Competency 3: Analyze FTTX installation practices connecting the subscriber to the POP

Criteria: Performance will be satisfactory when:

- presentation outlines splicing techniques
- presentation explains fiber optic cable characteristics
- presentation explains fiber optic splicing
- presentation explains fiber optic equipment in network to subscriber

Learning Objectives:

- a. Identify correct cable and equipment for installation
- b. Outline industry standards for installation from CO/Headend to subscriber
- c. Document install procedure for work order history

Required Artifacts: None

Suggested Artifacts: None

Describe your learning and experience with this competency:

Met/ Not Met Evaluator Feedback:

Competency 4: Utilize sources of current marketing research information

Criteria: Performance will be satisfactory when:

- presentation investigates a marketing research firm
- presentation demonstrates the type of data collected and markets it's sold to
- marketing audit examines market-specific economic, demographic, psychographic, competitive, technical, and legal/political data available for a product or service

Learning Objectives:

- a. Assess the role of marketing information
- b. Identify various sources of current marketing, business, economic, social, legal/political, and technological information, such as business and related periodicals, databases, web sites, etc.
- c. Utilize appropriate technology to access databases and to tailor the data to the marketing situation
- d. Organize information essential to effective market planning

Required Artifacts: None

Suggested Artifacts: None

Describe your learning and experience with this competency:

Met/ Not Met Evaluator Feedback:

Competency 5: Identify different system maps

Criteria: Performance will be satisfactory when:

- presentation interprets map symbols
- presentation interprets staking sheet symbols
- presentation identifies fiber cable footages
- presentation identifies fiber cable types

Learning Objectives:

- a. Identify map symbols and components
- b. Identify staking sheet symbols and components
- c. Outline industry mapping procedures

Required Artifacts: None

Suggested Artifacts: None

Describe your learning and experience with this competency:

Met/ Not Met Evaluator Feedback:

Competency 6: Interpret FTTX services

Criteria: Performance will be satisfactory when:

- presentation explains FTTX services
- presentation explains HFC services
- presentation compares and contrasts HFC and FTTX services

Learning Objectives:

- a. Describe HFC services
- b. Characterize differences in FTTX services
- c. Outline FTTX services

Required Artifacts: None

Suggested Artifacts: None

Describe your learning and experience with this competency:

Met/ Not Met Evaluator Feedback:

Competency 7: Examine fiber optic documentation

Criteria: Performance will be satisfactory when:

- presentation identifies FTTX planning documentation
- presentation explains FTTX documentation

Learning Objectives:

- a. Define FTTX documentation
- b. Outline FTTX services documentation

Required Artifacts: None

Suggested Artifacts: None

Describe your learning and experience with this competency:

Met/ Not Met Evaluator Feedback:

