



WISCONSIN  
INDIANHEAD  
TECHNICAL  
COLLEGE

# Experiential Learning Portfolio for 32451369 Broadband Installation

## 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 5 of the 6 competencies.**

### **32451369 Broadband Installation, 3 Technical Diploma Credits**

**Course Description:** This course introduces the student to the basics of the HFC (Hybrid Fiber Coaxial) portion of the broadband industry. It will focus on four (4) primary areas: cable and wire - the design of the cables physically and electrically and how to splice them; print reading - construction drawings and system maps/circuit diagrams; station installation - installation of customer materials and equipment and teaching the customers how to properly use the equipment; basic trouble shooting - finding and repairing trouble in materials and equipment.

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

<p><b>Competency 1: Apply safety practices when working around electrical circuits</b></p>
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<p>Criteria: Performance will be satisfactory when:</p>
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- |   |
|---|
| <ul style="list-style-type: none"><li>• learner identifies safety hazards while working around live electrical circuits</li><li>• learner wears appropriate personal protective equipment</li><li>• learner follows safety procedures</li></ul> |
|---|

<p>Learning Objectives:</p>
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- |  |
|--|
| <ol style="list-style-type: none"><li>a. Apply safety working practices when working around live electrical circuits</li><li>b. Wear appropriate personal protective equipment</li></ol> |
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<p><b>Required Artifacts: None</b></p>
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<p><b>Suggested Artifacts: None</b></p>
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**Describe your learning and experience with this competency:**

**Met/ Not Met    Evaluator Feedback:**

**Competency 2: Identify cable types**

Criteria: Performance will be satisfactory when:

- presentation identifies buried cables
- presentation identifies overhead cables
- presentation identifies coaxle cables
- presentation identifies the electrical properties of different types of coaxial cables

Learning Objectives:

- a. Differentiate between overhead and buried cables
- b. Identify coaxle cables
- c. Explain electrical properties of coaxial cables

**Required Artifacts: None**

**Suggested Artifacts: None**

**Describe your learning and experience with this competency:**

**Met/ Not Met    Evaluator Feedback:**

**Competency 3: Splice coaxial cables**

Criteria: Performance will be satisfactory when:

- learner prepares cable
- learner splices individual coaxial types to industry standards
- learner follows safety standards

Learning Objectives:

- a. Differentiate between different coaxial types to ensure splicing continuity
- b. Follow industry splicing procedures

**Required Artifacts: None**

**Suggested Artifacts: None**

**Describe your learning and experience with this competency:**

**Met/ Not Met    Evaluator Feedback:**

**Competency 4: Test coaxial cables**

Criteria: Performance will be satisfactory when:

- learner tests communications using equipment appropriate for information desired
- learner demonstrates testing using a toner and probe
- learner demonstrates testing using a volt-ohmmeter
- learner demonstrates testing using a signal-level meter
- learner follows industry standard procedures

Learning Objectives:

- a. Test communication cables using appropriate test equipment for specific tests
- b. Perform equipment diagnostic testing following industry standards

**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 identifies cable footages
- presentation identifies cable types

Learning Objectives:

- a. Identify map symbols
- b. Identify map components

**Required Artifacts: None**

**Suggested Artifacts: None**

**Describe your learning and experience with this competency:**

**Met/ Not Met    Evaluator Feedback:**

**Competency 6: Install service to customers using equipment and specifications according to industry standards**

Criteria: Performance will be satisfactory when:

- learner prepares coaxial cables for splicing
- learner installs network interface device using industry standards
- learner tests circuit using test gear for industry standards

Learning Objectives:

- a. Identify industry specifications and standards for the installation of services and equipment at the customer premises
- b. Install network interface device using industry standards
- c. Test circuit using test gear for industry standards

**Required Artifacts: None**

**Suggested Artifacts: None**

**Describe your learning and experience with this competency:**

**Met/ Not Met    Evaluator Feedback:**



