



WISCONSIN  
INDIANHEAD  
TECHNICAL  
COLLEGE

# Experiential Learning Portfolio for 10614129 Building Estimating

## Student Contact Information:

Name: \_\_\_\_\_ Student ID# \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_

*It is **required** 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.**

### **10614129 Building Estimating, 3 Associate Degree Credits**

**Course Description:** This course introduces the student to the basic methods of building estimating and systems for doing quantity surveys. Emphasis is placed on developing the skills received in preparing the kinds of estimates commonly used in architecture and building construction. Practical exercises in developing estimates for wood frame and light commercial structure are included in the course of study. **PREREQUISITE: 10410170 Architectural Materials and Methods 1.**

If you receive credit for prior learning for this portfolio, you will also receive a “Met” score for the following Technical Skills Attainment Program Outcomes:

- Evaluate building materials

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

**Competency 1: Explore estimating procedures**

Criteria: Performance will be satisfactory when:

- you identify types of bids and bidding information
- you describe estimating procedures
- you describe bidding information
- you explain contract documents
- you explain bonds and insurance
- you describe the Project Manual
- you identify the necessary components of the Project Manual
- you explain how the estimator utilizes the Project Manual
- you outline types of estimates
- you explain quantity surveys
- you describe the components of the estimate
- you identify the procedures in organizing the estimate
- you define overhead and contingencies
- you identify types of overhead

Learning Objectives:

- a. Explore practices of developing a systematic approach to building estimating
- b. Review contracts, bonds and insurance
- c. Review the Project Manual
- d. Analyze components of the estimate
- e. Review overhead and contingencies
- f. Assess labor costs

**Required Artifacts: None**

**Suggested Artifacts: None**

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

**Met/ Not Met Evaluator Feedback:**

**Competency 2: Determine areas, volumes, and quantities for various construction materials**

Criteria: Performance will be satisfactory when:

- you convert units of measure
- you compute cost per unit measure

Learning Objectives:

- a. Define units of measure
- b. Convert between units of measure
- c. Determine cost per unit of measure

**Required Artifacts: None**

**Suggested Artifacts: None**

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

**Met/ Not Met Evaluator Feedback:**

**Competency 3: Calculate masonry, concrete, and metals quantities**

Criteria: Performance will be satisfactory when:

- estimate includes costs for concrete formwork and placement and finishing
- estimate includes costs for masonry work materials and labor
- estimate includes costs for metal work materials and labor

Learning Objectives:

- a. Estimate concrete costs
- b. Estimate masonry costs
- c. Estimate metals costs

**Required Artifacts: None**

**Suggested Artifacts: Concrete, masonry, and metal estimates**

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

**Met/ Not Met Evaluator Feedback:**

**Competency 4: Calculate quantities of wood framing and thermal and moisture protection**

Criteria: Performance will be satisfactory when:

- estimate includes costs for wood framing, trim, materials, and labor
- estimate includes costs for thermal materials and labor
- estimate includes costs for moisture protection materials and labor
- estimate includes costs for door and window materials and installation

Learning Objectives:

- a. Estimate wood construction costs
- b. Estimate thermal and moisture protection construction costs
- c. Estimate door and window costs

**Required Artifacts: None**

**Suggested Artifacts: Wood framing and thermal and moisture estimates**

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

**Met/ Not Met Evaluator Feedback:**

**Competency 5: Estimate mechanical systems costs**

Criteria: Performance will be satisfactory when:

- you explain construction documents for all electrical work
- you prepare estimates for electrical work
- you explain construction documents for all plumbing and fire protection work
- you prepare estimates for electrical work
- you explain construction documents for all HVAC work
- you prepare estimates for HVAC work

Learning Objectives:

- a. Estimate electrical work
- b. Estimate plumbing and fire protection work
- c. Estimate heating, ventilating and air conditioning work

**Required Artifacts: None**

**Suggested Artifacts: Electrical and HVAC estimates**

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

**Met/ Not Met Evaluator Feedback:**

**Competency 6: Price products and services for profit**

Criteria: Performance will be satisfactory when:

- estimate includes costs for flooring materials and labor
- estimate includes costs for finish trim materials and labor
- estimate includes costs for furnishing materials and labor
- estimate includes costs for fixture materials and labor

Learning Objectives:

- a. Estimate flooring costs
- b. Estimate finish trim costs
- c. Estimate furnishing costs
- d. Estimate fixture costs

**Required Artifacts: None**

**Suggested Artifacts: Interior materials estimate(s)**

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

**Met/ Not Met Evaluator Feedback**



