# Course Information Form (CIF)

**Course Code:** LBR 114

**Course Title:** Concrete Practices and Procedures

**Department:** Applied Sciences and Technologies
**PCS Code:** 1.2 - Occupational/Technical Instruction
**CIP Code:** 46.0402
**Repeatability:** 0

**Effective Date:** Summer 2026

## Credit Hours

**Catalog Notation:** 2-2-3
**Credit Hour Distribution:**

| Lecture: 2 | Lab: 2 | Clinical: 0 | **Total: 3** |
|---|---|---|---|

## General Course Information

### Catalog Description

Concrete materials and mix proportions, tools and equipment used with concrete, finishing techniques, curing and protection of concrete.

### General Course Objectives

Students will be able to use the tools and equipment used with concrete and mix, finish, and cure concrete.

### Minimum Placement Levels

| English | Reading | Math |
|---|---|---|
| None | None | None |

### Prerequisites

Admission into the Laborers Apprenticeship program

### Methods of Evaluation

The minimum evaluation methods include 6 practical demonstrations and 1 written exam.

### Instructional Materials and Additional Supplies

Concrete Practices and Procedures, Laborers Training Fund, Modules 2008.

## Course Content

### General Learning Outcomes (GLOs)

- Technology: Students will demonstrate the ability to evaluate, select, and appropriately use current and emerging tools.

### Course Segments and Student Learning Outcomes

| Course Segment | Learning Outcomes | Lecture Hours | Lab Hours | Clinical Hours |
|---|---|---|---|---|
| Concrete Components and the Hardening Process | 1. List the ingredients in concrete.<br>2. Describe the hardening process. | 6 | 3 | 0 |
| Concrete Materials and Mix Proportions | 1. Name the materials needed.<br>2. Explain the proportions.<br>3. Calculate the amount of materials. | 6 | 3 | 0 |
| Concrete Control Testing | 1. Explain the testing of concrete. | 3 | 0 | 0 |
| Placing and Finishing Tools | 1. Identify tools used in placing and finishing concrete.<br>2. Demonstrate the use of tools in placing and finishing concrete. | 3 | 3 | 0 |
| Placing Slabs on Grade | 1. Describe how to place slabs. | 3 | 0 | 0 |
| Concrete Equipment: a) Bobcat, b) E-Z Pavement Breaker, c) Concrete Saw, and d) Concrete Vibrator | 1. Describe how concrete equipment is used.<br>2. Demonstrate how to use concrete equipment. | 3 | 12 | 0 |
| Finishing Techniques | 1. Demonstrate finishing techniques. | 2 | 3 | 0 |
| Jointings | 1. Describe various methods of creating joints.<br>2. Demonstrate methods of jointing. | 2 | 3 | 0 |
| Curing and Protection of Concrete | 1. Describe methods of curing and protecting concrete. | 1 | 0 | 0 |
| Exams and Practicals | 1. Successfully pass written exam.<br>2. Demonstrate practical application of knowledge learned. | 1 | 3 | 0 |

### Total Contact Hours

| Lecture Hours | Lab Hours | Clinical Hours |
|---|---|---|
| 30 | 30 | 0 |