

Laborer's (LBR)

The Construction Trades program is offered through a partnership with the Illinois Laborer's and Contractors as part of their Joint Apprenticeship and Training Program. Enrollment is restricted to new and current apprentices.

LBR 111 Orientation to Laborers Craft

2 Hours (Variable credit)

Prerequisites: Admission to Laborers' Apprenticeship Program
3 hours weekly (1-2 for 2 credit hours)

Work zone flagger training; sun sense, math review, back injury prevention, construction rigging and knot tying, hazard communication, drug and alcohol awareness.

LBR 112 Occupational Safety and Health

1 Hour (Variable credit)

Prerequisites: Admission to Laborer's Apprenticeship Program
2 hours weekly (.5-1.5 for 1 credit hour)

Occupational Safety and Health Act 29 CFR 1926, common causes of accidents and fatalities in industry. Students practice applications of standards.

LBR 113 Mason Tending

3 Hours (Variable credit)

Prerequisites: Admission to Laborers' Apprenticeship Program; First Aid/CPR Certification
4 hours weekly (2-2 for 3 credit hours)

The apprentice will be able to assist the mason by applying practice and procedures of mason tending including proper scaffolding, mortar and grout, mixing and forklift operation.

LBR 114 Concrete Practices and Procedures

3 Hours (Variable credit)

Prerequisites: Admission to Laborers' Apprenticeship Program
4 hours weekly (2-2 for 3 credit hours)

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

LBR 115 Asphalt Technology and Construction

3 Hours (Variable credit)

Prerequisites: Admission to Laborers' Apprenticeship Program
4 hours weekly (2-2 for 3 credit hours)

Asphalt technology and construction flagger certification, manual tape application, paint striping operator, carbide asphalt grinder.

LBR 116 Apprenticeship I

3 Hours (Variable credit)

Prerequisites: Admission to Laborers' Apprenticeship Program
24 hours weekly (0-24 for 3 credit hours)

On-the-job component of Laborers' Apprenticeship Program; work related to skills learned in the classroom including mason tending, concrete procedures and asphalt use. All work activities performed under direct supervision of journeyman.

LBR 131 Principles of Pipelaying

3 Hours (Variable credit)

Prerequisites: LBR 111, 112, 113, 114, 115, 116, and second-year status in Laborers' Apprenticeship Program
4 hours weekly (2-2 for 3 credit hours)

Principles of pipelaying, including gravity flow piping systems, batterboards, sewer lasers, utility lines and grades, review of metric system.

LBR 133 Asbestos Abatement

3 Hours (Variable credit)

Prerequisites: LBR 111, 112, 113, 114, 115, 116, and second-year status in Laborers' Apprenticeship Program
4 hours weekly (2-2 for 3 credit hours)

Asbestos abatement principles and practices, approved by Illinois Department of Public Health/E.P.A. Accredited.

LBR 136 Apprenticeship II

3 Hours (Variable credit)

Prerequisites: Second-year status in Laborers' Apprenticeship Program
24 hours weekly (0-24 for 3 credit hours)

On-the-job component of Laborers' Apprenticeship Program; work related to skills learned in the classroom including mason tending, concrete procedures, asphalt use, pipelaying, asbestos abatement, and blueprint reading. All work activities performed under direct supervision of journeyman.

LBR 139 Highway Construction Plan Reading

3 Hours (Variable credit)

Prerequisites: None
3 hours weekly (3-0 for 3 credit hours)

The purpose of this course is to introduce the student to the various conceptual documents used in the construction process. The primary focus will concentrate on interpretation and visualization of construction blueprint and understanding and interpretation of construction specifications.

LBR 150 Basic Construction Surveying

3 Hours (Variable credit)

Prerequisites: None
3 hours weekly (3-0 for 3 credit hours)

The student will perform basic leveling operations necessary for line and grade checking of roadways and excavation projects. Techniques taught will include taping, differential leveling, contour plans, plan reading, grade checking, staking, and laser levels.

LBR 152 Bridges

3 Hours (Variable credit)

Prerequisites: LBR 131, 133, 136, LBR 139 and third-year status in the Laborers' Apprenticeship Program
4 hours weekly (2-2 for 3 credit hours)

Methods of bridge construction, renovation and demolition for the laborer.

LBR 153 Hazardous Waste

4 Hours (Variable credit)

Prerequisites: LBR 131, 133, 136, LBR 139 and third-year status in the Laborers' Apprenticeship Program
5 hours weekly (3-2 for 4 credit hours)

Hazardous waste training for the Laborers' Apprentice.

LBR 156 Apprenticeship III

3 Hours (Variable credit)

Prerequisites: Third-year status in Laborers' Apprenticeship Program
24 hours weekly (0-24 for 3 credit hours)

On-the-job component of Laborers' Apprenticeship Program; work related to skills learned in the classroom including mason tending, concrete procedures, asphalt use, pipelaying, asbestos abatement, and blueprint reading, surveying, bridge construction and hazardous waste handling. All work activities performed under direct supervision of journeyman.

LBR 250 Labor Management Development

3 Hours (Variable credit)

Prerequisites: Journeyman status
3 hours weekly (3-0 for 3 credit hours)

Develop skills needed to serve as foreman on construction jobs. Includes leadership, motivation, documents, safety, planning and control, communication and conflict resolution.

LBR 251 Special Project I

3 Hours (Variable credit)

Prerequisites: Completion of trade certificate, consent of department chair
3 hours weekly (3-0 for 3 credit hours)

Designed by the student and supervisor to develop special skills and talents in the field of choice.

LBR 252 Special Project II

3 Hours (Variable credit)

Prerequisites: Completion of trade certificate, recommendation of apprenticeship instructor, consent of department chair
3 hours weekly (3-0 for 3 credit hours)

Designed by the student and supervisor to develop special skills and talents in the field of choice.

LBR 253 Special Project III

3 Hours (Variable credit)

Prerequisites: Completion of trade certificate, recommendation of union leadership, consent of department chair
3 hours weekly (3-0 for 3 credit hours)

Designed by the student and supervisor to develop special skills and talents in the field of choice.

LBR 271 Trade Apprenticeship I

3 Hours (Variable credit)

Prerequisites: Approval of department chair and appropriate union management
24 hours weekly (0-24 for 3 credit hours)

Supervisory and management projects and activities will be the primary emphasis of the class. On-the-job experience in the selected field. All work activities under direct supervision of a foreman. Activities will consist of the same as those required of a journeyman. Students may not receive credit for this course and the course in their trade curriculum.

LBR 272 Trade Apprenticeship II

3 Hours (Variable credit)

Prerequisites: Approval of department chair and appropriate union management
24 hours weekly (0-24 for 3 credit hours)

Supervisory and management projects and activities will be the primary emphasis of the class. On-the-job experience in the selected field. All work activities under direct supervision of a foreman. Activities will consist of the same as those required of a journeyman. Students may not receive credit for this course and the course in their trade curriculum.

LBR 273 Trade Apprenticeship III

3 Hours (Variable credit)

Prerequisites: Approval of department chair and appropriate union management
24 hours weekly (0-24 for 3 credit hours)

Supervisory and management projects and activities will be the primary emphasis of the class. On-the-job experience in the selected field. All work activities under direct supervision of a foreman. Activities will consist of the same as those required of a journeyman. Students may not receive credit for this course and the course in their trade curriculum.

LBR 274 Trade Apprenticeship IV

3 Hours (Variable credit)

Prerequisites: Approval of department chair and appropriate union management
24 hours weekly (0-24 for 3 credit hours)

Supervisory and management projects and activities will be the primary emphasis of the class. On-the-job experience in the selected field. All work activities under direct supervision of a foreman. Activities will consist of the same as those required of a journeyman. Students may not receive credit for this course and the course in their trade curriculum.