

CONSTRUCTION TECHNOLOGY

- Construction Apprenticeship Readiness - Certificate of Completion (<https://lbcc-public.courseleaf.com/noncredit/programs-of-study/construction-technology/construction-apprenticeship-readiness-certificate-completion/>)
- Construction Management Fundamentals - Certificate of Completion (<https://lbcc-public.courseleaf.com/noncredit/programs-of-study/construction-technology/construction-management-fundamentals-certificate-completion/>)
- Forklift Fundamentals - Certificate of Completion (<https://lbcc-public.courseleaf.com/noncredit/programs-of-study/construction-technology/forklift-fundamentals-certificate-completion/>)
- Home Remodeling - Certificate of Completion (<https://lbcc-public.courseleaf.com/noncredit/programs-of-study/construction-technology/home-remodeling-certificate-completion/>)

CONST 600 0 units

Construction Apprenticeship Readiness

108 hours lecture, 72 hours laboratory

Grading: non graded.

This class prepares students to enter the Construction Trades in a variety of apprenticeship programs. Students who complete the Multi-Craft Core Curriculum (MC-3) earn the OSHA 10 certificate and also receive CPR and First Aid certification. The subjects covered include: physical agility, blueprint reading, industry awareness and opportunities in the crafts: introduction to the crafts and tools (hand and power); tool safety; and the heritage of the American worker.

CONST 601 0 units

Introduction To Construction

9 hours lecture, 9 hours laboratory

Grading: non graded.

The introduction to construction will introduce students to the common construction tools, equipment, materials, safety, and practices in the construction industry. Lab will include hands-on projects to put these skills to use by building a small-scale project.

CONST 602 0 units

Exploring Construction

9 hours lecture, 9 hours laboratory

Grading: non graded.

This course is an exploration of construction tools and crafts. This course will allow the student to explore the basic safety requirements and tool utilization in the industry.

CONST 605 0 units

Forklift Fundamentals

9 hours lecture, 9 hours laboratory

Grading: non graded.

Forklift Safety and Operation training will provide basic safety and operation of the forklift including lifting principles, load rating, stability, and operation techniques. Students will be required to have a valid California Driver's license to participate and be certified.

CONST 606 0 units

Workplace Competency Skills

18 hours lecture

Grading: non graded.

This competency-based course will provide students an awareness of the skills needed to be successful in the construction industry. Topics include effective workplace communication, problem and conflict resolution, thriving in a diverse workforce, and being an effective team player.

CONST 615 0 units

Blueprint Reading for Construction Trade

54 hours lecture

Grading: non graded.

This course is designed to provide knowledge of blueprint reading as it relates to the construction and building industry. This course will cover the theory of orthographic projections, reading floor plans, section and elevation drawings, symbols and notations, scaling and dimensioning practices, reading blueprints for structural formation, electrical, mechanical, and plumbing drawings.

CONST 616 0 units

Home Remodeling-Drywall

9 hours lecture, 18 hours laboratory

Grading: non graded.

Formerly CONST 615B. This course in home remodeling covers technical instruction and practical experience for installing and repairing drywall in commercial and residential locations. Topics of instruction include, safety, tools, taping, spackling, compound and hanging techniques for drywall. Students will also learn how to differentiate between LEED approved and non-approved materials.

CONST 617 0 units

Home Remodeling-Tiling

9 hours lecture, 18 hours laboratory

Grading: non graded.

Formerly CONST 615A. This course in home remodeling covers technical instruction and practical experience for tiling, marble and granite installation. Topics of instruction include, safety, waterproofing, tiling floors, counter tops, and walls in ceramic, porcelain, marble, and granite and mortar floating. Practical instruction is given in a lab setting.

CONST 618 0 units

Home Remodeling-Painting

9 hours lecture, 18 hours laboratory

Grading: non graded.

Formerly CONST 615C. This course in home remodeling covers basic painting techniques. Topics of instruction include, safety, job site and surface preparation (e.g. cleaning, caulking, sealing); Proper tools; spray-painting equipment; ladder and scaffolding safety; applications to enhance the job through stripping, sponging, and distressing.

CONST 620 0 units

Plumbing Fundamentals

36 hours lecture, 54 hours laboratory

Recommended Preparation: CONST 615 – Blueprint Reading.

Grading: non graded.

This course will provide students with entry level instruction involving the theory and skills of residential plumbing systems. Knowledge of basic principles, functions, design, and the physical ability to install and test rough-in plumbing in a single-family dwelling.

CONST 670 0 units

Cost Estimating

54 hours lecture

Recommended Preparation: CONST 615.

Grading: non graded.

This course is designed for those individuals needing to produce accurate project estimates; topics will include interpreting project information from a detailed blueprint and processing it into a final detailed estimate.

CONST 675 0 units

Contracting Laws and Management

54 hours lecture

Grading: non graded.

This course is designed for those with construction experience who wish to become contractors. Topics of instruction include the following: home improvement certification, contractor license law, labor laws, payroll deductions planning, management principles, lien laws, and business organization.

CONST 680 0 units

Building Codes for Residential Construct

54 hours lecture

Prerequisite: CONST 615.

Grading: non graded.

This course is an analysis of residential building code requirements for construction. This course will also cover the building permit process, the development of the code, and enforcement process.