

**San José City College**  
**Certificate of Achievement**  
**Level 3**  
**2021-2022**

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**CONSTRUCTION TECHNOLOGY**

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Successful completion of the Construction Technology program prepares students for entry into the construction trades, which require a technical skill and understanding of construction processes. Highlights: Program designed for immediate employment, upgrading of job skills, and potential opportunities for career self-employment. Courses can be transferable to four-year institutions.

Upon completion of program students will be able to:

1. Demonstrate appropriate use of construction tools, methods and materials, follow safety practices and procedures used in the industry.
2. Demonstrate understanding of construction terms, concepts, and hands-on applications.
3. Read and interpret building codes, blueprints, manuals, specifications, shop drawings.
4. Apply effective use of emerging technologies in the construction trades including application Virtual Design and Construction (VDC) and energy efficiency.

**CAREER OPTIONS:**

- Building Information Modeling (BIM)
- Building Inspector
- Carpenter
- Concrete Form Setter
- Construction Worker
- Construction Management
- Contractor
- Drywall Hanger, Taper, and Texturing
- Electrician
- Estimator
- Home Improvement Material Retail Sales
- Insulation Installer
- Painter
- Plumber
- Residential Maintenance
- Roofer

**FOR ADDITIONAL INFORMATION, SEE A COUNSELOR, VISIT THE CAREER/TRANSFER CENTER, OR CONTACT THE FOLLOWING:**

Faculty: David Lomax, [david.lomax@sjcc.edu](mailto:david.lomax@sjcc.edu)  
Business and Workforce Development Division  
San José City College Web Page

(408)298-2181 ext. 3971  
(408) 288-3781  
[www.sjcc.edu](http://www.sjcc.edu)

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## **CONSTRUCTION TECHNOLOGY**

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*All major courses must be completed with a grade of "C" or better.*

### **CERTIFICATE OF ACHIEVEMENT - LEVEL 1:**

### **UNITS**

CNSTR 101A	Tools, Materials, and Safety	2
CNSTR 101B	Residential Construction Framing	3
CNSTR 102A	Residential Plumbing Systems	3
CNSTR 102B	Residential/Commercial Wiring	3
CNSTR 105	Concrete Construction	3
CNSTR 110	Building Information Modeling (BIM) 101	3
CNSTR 115	Blueprint Reading	3
CNSTR 117	OSHA Construction Safety Standards	1
CNSTR 120	Building Codes	3
CNSTR 125	Energy Efficiency Construction	3

### **Approved Major Electives**

*Complete 9 non-duplicated units from the following approved major electives:*

CNSTR 103	Roof Framing Systems	3
CNSTR 104	Interior/Exterior Finish	3
CNSTR 107	Principles of Contracting	3
CNSTR 116	Estimating	3
CNSTR 118	Project Management for Construction	3
CNSTR 128	National Electrical Code & Calculations	3
CNSTR 138	Work Experience	1 - 8
FMT 100	Introduction to Facilities Maintenance	3.5
SOLAR 102	Introduction to Photovoltaic Installation	3.5

### **TOTAL REQUIRED UNITS**

**36**