

CONSTRUCTION MANAGEMENT

Facility Maintenance

Occupational Skills Award

This OSA was created for students interested in a career as a facility maintenance worker, as well as those currently working in a building trades-related profession who want to expand their proficiencies. This program provides training on basic electrical systems, construction and air conditioning in the commercial and residential setting. Students can continue for an Electrician Assistant, Construction Management Assistant, or Heating, Ventilation, Air Conditioning and Refrigeration Technology Certificate.

Construction Management Assistant*

Certificate

The Construction Management Assistant Certificate program will prepare students to serve as assistants to a construction supervisor or project manager. The skills acquired will prepare the student to assist a Construction Manager, Project Manager or Superintendent in the supervision and management of projects related to construction of commercial, industrial, residential buildings, engineering projects like roads, bridges and utility systems. Construction includes both new construction and remodeling, additions, maintenance and repairs. The student will focus on acquiring the skills necessary to assist in the monitoring of construction processes to include but not limited to, construction safety, construction estimating, building codes and inspections and construction management duties.

Graduates of the program will be prepared for entry level positions such as junior estimator, assistant of construction superintendents, program managers and/ or general contractors.

Construction Management*

Associate of Applied Science

The Construction Management program will prepare students for supervision and management careers related to construction of commercial, industrial, residential buildings, engineering projects like roads, bridges and utility systems. Construction includes both new construction and remodeling, additions, maintenance and repairs.

The Construction Management student will focus on acquiring the skills necessary to monitor, direct and conduct supervision processes to include but not limited to construction safety, planning, scheduling, coordinating, estimating, construction tools and techniques, and supervising all or part of the construction activities. Additionally, students will develop skills in hiring and oversight of specialty trade contractors, accessing risk and safety factors on site.

Graduates of the program will be prepared for entry level positions such as assistant construction superintendent, junior estimator, program manager or general contractor for property owners, developers or construction management firms.

*Revised award title pending approval.

Program Learning Outcomes

Certificate

1. Graduates will be able to apply building codes and the necessary skills to inspect construction projects.
2. Graduates will be able to interpret construction plans and specifications related to construction projects.
3. Graduates will be able to prepare estimates for construction projects.

Associate of Applied Science

1. Graduates will be able to demonstrate safety practices and procedures to oversee a construction site.
2. Graduates will be able to apply supervisory and management skills.
3. Graduates will be able to prepare estimates for construction projects.
4. Graduates will be able to apply building codes and the necessary skills to inspect construction projects.
5. Graduates will be able to interpret construction plans and specifications related to construction projects.

Advisory Committee Members

Manny Gonzalez, Regional Manager, McCoy's Lumber Pharr
Isaac Smith, Co-Owner, Matt's Building Materials
Ruby Melgoza, Manager, Brex Commercial Doors
Lydia Rodriguez, Project Manager, PMSI
Efrain Gomez, Owner, Gomez 3 Construction
Ronnie Cavazos, Owner, Structure Team
Eddie Rodriguez, Project Manager, D. Wilson Construction
Jose Robledo, Owner, Armored Painting

Occupational Skills Award

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Certificate

- Construction Management Assistant (p. 1)

Associate Degree

- Construction Management Associate of Applied Science (p. 2)

Facility Maintenance Occupational Skills Award

TSI Exempt

| Course | Title | Credit Hours |
|---------------------------|-----------------------------------|--------------|
| Fall | | |
| CNBT 1418 | Construction Tools and Techniques | 4 |
| ELPT 1429 | Residential Wiring | 4 |
| HART 1410 | HVAC Shop Practices and Tools | 4 |
| Credit Hours | | 12 |
| Total Credit Hours | | 12 |

Construction Management Assistant Certificate*

TSI Exempt

| Course | Title | Credit Hours |
|-----------|---------------------------|--------------|
| Fall | | |
| CNBT 1210 | Basic Construction Safety | 2 |

| | | |
|---------------------------|---|-----------|
| CNBT 1411 | Construction Materials and Methods I | 4 |
| CNBT 1400 | Residential and Light Commercial Construction Drawings | 4 |
| CNBT 1342 | Building Codes and Inspections | 3 |
| Credit Hours | | 13 |
| Spring | | |
| CNBT 2442 | Construction Management I ¹ | 4 |
| CNBT 1446 | Construction Estimating I | 4 |
| CNBT 1402 | Mechanical, Electrical & Plumbing Systems in Construction I | 4 |
| CNBT 1315 | Field Engineering I | 3 |
| Credit Hours | | 15 |
| Total Credit Hours | | 28 |

*Revised award title pending approval.

¹ Capstone: Successfully passing CNBT 2442 Construction Management I.

Construction Management Associate of Applied Science*

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| Course | Title | Credit Hours |
|----------------------------------|--|--------------|
| First Year | | |
| Fall | | |
| CNBT 1210 | Basic Construction Safety | 2 |
| CNBT 1411 | Construction Materials and Methods I | 4 |
| CNBT 1400 | Residential and Light Commercial Construction Drawings | 4 |
| CNBT 1342 | Building Codes and Inspections | 3 |
| Credit Hours | | 13 |
| Spring | | |
| CNBT 2442 | Construction Management I | 4 |
| CNBT 1446 | Construction Estimating I | 4 |
| CNBT 1402 | Mechanical, Electrical & Plumbing Systems in Construction I | 4 |
| CNBT 1315 | Field Engineering I | 3 |
| Credit Hours | | 15 |
| Summer | | |
| PSYC 2301 or SOCI 1301 | General Psychology ¹ or Introductory Sociology | 3 |
| Math Elective ¹ | | 3-4 |
| Credit Hours | | 6-7 |
| Second Year | | |
| Fall | | |
| CNBT 2317 | Green Building | 3 |
| CNBT 1459 | Project Scheduling | 4 |
| CNBT 2344 | Construction Management II | 3 |
| CNBT 1418 | Construction Tools and Techniques | 4 |
| Credit Hours | | 14 |
| Spring | | |
| CNBT 1380 | CAPSTONE: Cooperative Education | 3 |
| Humanities Elective ¹ | | 3 |
| COSC 1301 | Introduction to Computing ¹ | 3 |
| ENGL 1301 | Composition I ¹ | 3 |
| Credit Hours | | 12 |
| Total Credit Hours | | 60-61 |

¹ Identifies courses to fulfill minimum 15 credit hour General Education requirement.