



# MISSION TRAILS REGIONAL OCCUPATION PROGRAM

1. **COURSE TITLE:** Construction and Design
2. **CBEDS TITLE:**
3. **CBEDS NUMBER:**
4. **JOB TITLES:**
5. **COURSE DESCRIPTION:** In this course students will the develop the basics of drafting and Computer Aided Design (CAD). This course clearly articulates connections between geometric concepts and the creation of 3-dimensional wooden projects. They will also learn mill and cabinetry, from the basics of hand tools to the power tools of the trade. This is an integrated course utilizing Geometry concepts in a Building and Construction Trades environment. This course is a part of the Building and Trades Pathways as a concentrator course in a sequence of construction and integrated math courses.
6. **HOURS:**
7. **PREREQUISITE:**

**Industry Sector Pathway:** Building and Construction Trades / Cabinetry, Millwork and Woodworking

Participatory	Concentration 10 <sup>th</sup> , 11 <sup>th</sup> or 12 <sup>th</sup> Block Schedule only (pre-requisite courses)	Capstone 11 <sup>th</sup> or 12 <sup>th</sup> Block Schedule only (students must pass pre-req.)
Exploration of Construction and Architecture	Construction and Design	Construction Technology

8. **REVISION DATE:**
9. **COURSE OUTLINE:**

**CONTENT AREA SKILLS:**



## 10. COURSE OUTLINE:

### b) CAREER PERFORMANCE STANDARDS

#### i) EXPECTED STUDENT OUTCOMES

#### ii) HOURS OF INSTRUCTION

## COURSE OUTLINE

CAREER PERFORMANCE STANDARDS	EXPECTED STUDENT OUTCOMES	HOURS
Instruction will include:	Student will be able to:	
1. Personal Skills	1. Understand how personal skill development, including positive attitude, honesty, self-confidence, time management, & other positive traits affect employability. .	Integrated in content area skills
CAREER PERFORMANCE STANDARDS	EXPECTED STUDENT OUTCOMES	HOURS
Instruction will include:	Student will be able to:	
2. Interpersonal Skills .	2. Understand principles of effective interpersonal skills, including group dynamics, conflict resolution, and negotiation. .	Integrated in content area skills
3. Thinking and Problem-Solving Skills	3. Understand the importance of critical thinking and problem-solving skills in the workplace.	
CAREER PERFORMANCE STANDARDS	EXPECTED STUDENT OUTCOMES	HOURS
Instruction will include:	Student will be able to:	

4. Thinking and Problem-Solving Skills	4. Understand the importance of critical thinking and problem-solving skills in the workplace.	Integrated in content area skills
5. Occupational Safety	5. Understand occupational safety issues, including avoidance of physical hazards	Integrated in content area skills
<b>CAREER PERFORMANCE STANDARDS</b>	<b>EXPECTED STUDENT OUTCOMES</b>	<b>HOURS</b>
Instruction will include:	Student will be able to:	
6. Employment Literacy .	6. Understand career paths and strategies for obtaining employment.	Integrated in content area skills
7. Technology Literacy .	7. Understand and adapt to changing technology.	Integrated in content area skills

## PATHWAY STANDARDS

California Career Technical Education Model Curriculum Standards

## CAREER READY STANDARDS

1. Apply appropriate technical skills and academic knowledge.
2. Communicate clearly, effectively, and with reason.
3. Develop an education and career plan aligned to personal goals.
4. Apply technology to enhance productivity.

5. Utilize critical thinking to make sense of problems and persevere in solving them.
6. Practice personal health and understand financial well-being.
7. Act as a responsible citizen in the workplace and the community.
8. Model integrity, ethical leadership, and effective management.
9. Work productively in teams while integrating cultural/global competence.
10. Demonstrate creativity and innovation.
11. Employ valid and reliable research strategies.
12. Understand the environmental, social, and economic impacts of decisions.

## CTE ANCHOR STANDARD

CCSS Standards are addressed throughout the course content.

Anchor Standard 1:

Anchor Standard 2:

Anchor Standard 3:

Anchor Standard 4:

Anchor Standard 5:

Anchor Standard 6:

Anchor Standard 7:

Anchor Standard 8:

Anchor Standard 9:

Anchor Standard 10:

Anchor Standard 11:

## 11. ADDITIONAL RECOMMENDED /OPTIONAL ITEMS

a. ARTICULATION:

b. VOCATIONAL CREDIT:

c. ACADEMIC CREDIT:

d. INSTRUCTIONAL STRATEGIES:

e. INSTRUCTIONAL MATERIALS:

f. CERTIFICATES: Certificate of Completion, indicating level of skills