

Construction Tech

Curriculum Plan 2022-2023

Area of Concentration: DD

CTSO: SkillsUSA

Program Courses

EMIS Course Code	Course Name	Grade	Is this course a CTAG?
178000	Construction Technology	10	No
178001	Carpentry and Masonry Tech	11	Yes
178003	Structural Systems	11	No
178023	Remodeling/Renovation	12	No
178029	Construction Capstone	12	N/A

Industry Credentials/Certifications

Industry Credentials Offered	ODE Points Available	Completed during Grade
OSHA 10	1	10
Career Connections (Levels 1-3)	12	10-12

College Credit Opportunities

Course Name	College	Credit Hours	Completed during Grade
CTCON003 Construction Methods and Materials	CTAG	3	11
CTS001 10-Hour Safety	CTAG	1	10

Work-Based Learning Opportunities

On the job placement opportunities	
CTSO competitions	

Tasks

- Clean work sites.
- Review blueprints or specifications to determine work requirements.
- Mark reference points on construction materials.
- Measure materials or objects for installation or assembly.
- Cut wood components for installation.
- Install wooden structural components.
- Install building fixtures.
- Install doors or windows.
- Verify alignment of structures or equipment.
- Order construction or extraction materials or equipment.
- Select construction materials.
- Coordinate construction project activities.
- Prepare operational reports.
- Estimate construction project costs.
- Assemble temporary equipment or structures.
- Position construction forms or molds.
- Inspect work sites to determine condition or necessary repairs.
- Drill holes in construction materials.
- Record operational or environmental data.
- Remove worn, damaged or outdated materials from work areas.
- Build construction forms or molds.
- Install safety or support equipment.
- Apply decorative or textured finishes or coverings.
- Prepare hazardous waste for processing or disposal.
- Dig holes or trenches.
- Direct construction or extraction personnel.
- Position safety or support equipment.
- Install trim or paneling.

- Apply material to fill gaps in surfaces.
- Install carpet or flooring.
- Mix substances or compounds needed for work activities.
- Weld metal components.
- Assemble products or production equipment.

CONSTRUCTION TECHNOLOGY

Program of Study

Aligned with Sinclair – Construction Management Technology CMO.S.AAS

Secondary	9	English 9	Algebra I or Geometry	Physical Science	World History	PE/PE	Health/ Career Exploration	Elective
	10	English 10	Geometry or Algebra II	Biology	U.S. History	Elective	Construction Technology 178000	
	11	English 11	Algebra II or Pre-Calculus	Chemistry or Environmental Science	American Government	Elective	Carpentry and Masonry Tech 178001	Structural Systems 178003
	12	English 12	Adv Math	Elective	Elective	Elective	Remodeling/ Renovation 178023	Construction Capstone 178029

Post-Secondary	Fall Year 1	CAT 1101 Architectural Drafting	CAT 1201 Constr Methods & Materials	CAT 2431 OSHA Const Standards	MET 1131 PC Apps for Engr Tech	CAT 1211 Constructional Matl Testing
	Spring Year 1	CAT 1121 Intro to Revit & BIM	CAT 1241 Building Systems	CAT 1401 Construction Estimating	CAT 1501 Fund Surveying & Mapping	
	Summer Year 1	CAT 2700 CAT Internship				
	Fall Year 2	CAT 2401 Eng Tech Project Mgt	CAT 2411 Bldg Codes, Laws & Specs	EGV 2351 Leed Green Assoc Exam	COM 2211 Effective Public Speaking	PHY 1141 College Physics
	Spring Year 2	CAT 2782 Const Mgt Tech Capstone	MET 2711 Ethics for Egr TechProf	CAT 1301 Intro Civil Const CAD	CAT 2581 Legal Principles Surveyor	GEO 1201 World Regional Geography
	Summer Year 2	MAT 1580 Pre-Calculus			ENG 1101 English Comp I	

Key	Required Course	Recommended Elective Courses	High School Career-Technical Courses Bold =College Credit Opportunity
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Dayton Public Schools does not discriminate on the basis of race, color, national origin, sex, disability, or age for participation in any program or activity. Lack of English language proficiency will not be a barrier to admission and participation in career-technical education programs.