Construction Tech
Curriculum Plan 2022-2023

DAYTON PUBLIC SCHOOLS
Career Technical Education

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- Remove worn, damaged or outdated materials from work areas.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**