



PLUMBING & WATER SYSTEMS

The Plumbing and Water Systems program gives students the opportunity to explore the plumbing trade and all other construction related trades. Students will learn and receive assistance on goal setting, resume and portfolio building, interviewing skills, help with job placement and have an opportunity to participate in a work rotation program in February.

- Learn layout, design, and maintenance of plumbing systems for residential, commercial and industrial environments.
- Develop skills in soldering, brazing, threading steel pipe, assembling PVC & cast iron, installing and maintain plumbing fixtures, including water heaters.
- Gain real-life experience at the CTC Project House installing plumbing and irrigation systems. (CTC provides transportation to/from the site.)
- Opportunity to participate in a non-paid rotation program to help build skills in residential and commercial plumbing, HVAC-R, supply houses, and irrigation companies including manufacturing/industrial settings.
- Also focuses on Skills for Success (S4S), effective communication, problem-solving skills, teamwork, collaboration, personal accountability and becoming a self-directed learner just to name a few.



Careerline
Tech Center

Students who would benefit from this program are those who possess strong mechanical and math skills, are self-motivated, hard-working, and have good time management skills.

High School Credit: Students will earn elective credit at their high school upon completion of this course. Please see a high school counselor (based on district decision) for eligibility towards 4th-year math-related credit, VPAA credit, and waived credits for third year science and second year world language.

College Credit: Several Michigan post-secondary education partners offer direct and articulate credit for this course. For specifics, visit the **College & Career Services** tab on our website.

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LENGTH OF PROGRAM

1 year

Instructor:

Kyle Phelps
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ParaPro:

Chris Hayes
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Related Careers with 2022 Median Annual Pay from O*Net

- Plumbers, Pipefitters and Steamfitters \$60,090
- Boilermaker \$66,920
- Pipelayer \$45,990
- Drain Cleaning \$45,610
- HVAC Technician \$51,390
- And many more

Experience the CTE Difference!



TO ENROLL

bit.ly/CTCenroll



QUESTIONS?

Contact Jannette Bole
jbole@oaisd.org



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Careerline Tech Center

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Course Outline:

1st Semester: Hand and Power Tools, PVC Pipe and Fittings, Steel Pipe and Fittings, Copper Pipe and Fittings, and CTC Project House

2nd Semester: Rough-in Plumbing, Finish Plumbing—installing and maintaining fixtures, Water Heaters, Irrigation, and CTC Project House

Resources Used:

Modern Plumbing textbook and Michigan Plumbing Code.

Postsecondary Partners:

Bay College, Grand Rapids Community College, Ferris State University, and Kalamazoo Valley Community College

Work-Based Learning: All students at CTC have the opportunity to participate in experiences (such as guest speakers, tours, field trips and work experiences) that connect them with local employers in their program area.

WBL Partners: Macatawa Plumbing, Godwin Plumbing, Gale Plumbing & Hydronics, Unema Plumbing, CL Plumbing, and JR Automation

Plumbing students have the opportunity in February to participate in a Work Rotation. Students will work all 4 weeks for four different Residential and Commercial Plumbing, HVAC-R, Supply Houses, and Irrigation Companies including Manufacturing/Industrial settings

Safety Training Provided In: Ladder Training, Scaffolding Training, Hand and Specialty Tool Training, and Power Tools Training.

Student Leadership Opportunities: Students have the opportunity to engage in activities to develop relationships with classmates and community partners to strengthen their leadership skills.

Offsite Delivery: CTC Project House

Capstone: Upon course completion and with teacher recommendation, qualifying students may extend their learning through Capstone. This highly independent course has rigorous attendance and employability requirements. Enrollment starts in May. See your work-based learning coordinator for more information.