



Walker Career Center

Principles of Construction Trades

DOE# 7130



Course Description and Outline	Teacher Information and Student Supports
<p>Principles of Construction Trades covers the NCCER Core Curriculum and is a prerequisite to most other construction courses. Its modules cover topics such as basic safety, communication skills, and introduction to construction drawings; all basic skills needed to continue education in the construction program.</p>	<p>Name: Kevin Gogel Email: kgogel@warren.k12.in.us Phone: 317-532-6187</p> <p>Course Supplies</p> <ul style="list-style-type: none">● Online Textbook/Classroom set● Work Shoes● Work Clothes● Safety Glasses <p>Additional Supports</p> <ul style="list-style-type: none">● Individual help by appointment when necessary

Journey of a Graduate Skills/Standards

<p>Critical Thinking</p> <ul style="list-style-type: none">● Comply with OSHA-10 training requirements. Explain the safety obligations of workers, supervisors, and managers to ensure a safe workplace. <p>Communication</p> <ul style="list-style-type: none">● Review basic mathematical functions and explain their applications to the construction trades.● Explain how ropes, chains, hoists, loaders, and cranes are used to move material and equipment from one location to another on a job site.● Identify the roles of individuals and companies in the construction industry.● Recognize hazards associated with materials handling and explain proper materials handling techniques and procedures. <p>Resilience</p> <ul style="list-style-type: none">● Understand the connection between residential construction and related fields.● Understand and appreciate the roles that OSHA and INSafe play in the construction industry.● Understand the relationship between worker's compensation insurance and safety record. Understand the importance of safety training and education in the construction industry.● Understand the relationship between worker's compensation insurance and safety record.● Understand the hazards involved in the residential construction industry.● Understand basic drafting/drawing techniques and how to apply them to - working drawings.● Understand the relationship between individual building components and a structure as a whole● Understand basic print reading for the construction industry. <p>Collaboration</p> <ul style="list-style-type: none">● Provide detailed descriptions of commonly used power tools, such as drills, saws, Next Level Programs of Study 82 grinders, and sanders. Review applications, proper use, safety, and maintenance. Demonstrate power tool use in on-the-job settings.● Discuss basic terms for construction drawings, components, and symbols. Explain the different types of drawings and interpret and use drawing dimensions.● Utilize different resources to understand building component's applications and their limitations. <p>Content Knowledge</p> <ul style="list-style-type: none">● Recognize indirect job opportunities in the -construction field.● Identify and explain specific applications of hand tools that are widely used in the construction industry, such as hammers, saws, levels, pullers, and clamps.
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Citizenship

- Recognize direct job opportunities in the - construction field.
- Become familiar with new residential building products.

Grade Calculation

MSD Warren Township Scale

Grade	Percentage
A	92.5 - 100
A-	89.5 - 92.4
B+	86.5 - 89.4
B	82.5 - 86.4
B-	79.5 - 82.4
C+	76.5 - 79.4
C	72.5 - 76.4
C-	69.5 - 72.4
D+	66.5 - 69.4
D	62.5 - 66.4
D-	59.5 - 62.4
F	Below 59.5

Grading Policies

Semester Grade

Your semester grade will be calculated in the following way:

90% Assessments (Tests & Quizzes) Projects,
Labs, Homework and other assignments
10% Final Exam

All Assessments will be assigned points, grades will be calculated on total points.

Synergy Grades

Grades posted in Synergy reflect the students' academic performance in the course.

Credits/Pathways

CORE 40 Diploma

Course fulfills two credits of the elective requirement for the Core 40 diploma.

Academic/Technical Honors Diploma

Has potential to fulfill academic/technical honors diploma. - see counselor

CTE Graduation Pathway

CTE Concentrator A: Civil Construction Fundamentals
CTE Concentrator B: Advanced Civil Construction
Pathway Capstone: Civil Construction Capstone

Types of Assignments and Assessments

Assignments

Assignments will include classwork, **homework**, lab projects. These items are the opportunities for students to practice the concepts learned in class.

Labs

Projects will be assigned throughout the year, with ample time to complete. Some projects are individual and some are small groups. Students must

Assessments

Tests/projects cover Indiana State Standards, and there will be one test per module.

Quizzes may be given throughout a unit. There may or may not be a quiz for each unit.