

URBANDALE COMMUNITY SCHOOL DISTRICT
CURRICULUM FRAMEWORK

SUBJECT:	Vocational Education	
COURSE TITLE:	Building Trades	
GRADE:	11, 12	Full year
PREREQUISITES:	Woodworking Technology, Building Construction with minimum grade of C and instructor approval	

COURSE DESCRIPTION:

Building Trades is year long course that provides students the apprenticeship opportunity to frame and finish a house in an off-campus setting. This course focuses on the actual construction processes involved with building a residential home from excavation through the finishing stages. The quality of the students work must meet the standards of the local building inspectors.

CONTENT STANDARDS AND BENCHMARKS:

In order that our students may achieve the maximum benefit from their talents and abilities, the students in Urbandale Community School District's Building Construction course should be able to...

Content Standard I. Demonstrate comprehension, computation, and applied technology skills.

Benchmarks:

- Read construction drawing to build a structure.
- Organize and schedule construction activity.
- Demonstrate understanding of materials required for construction.
- Demonstrate the safe and proper use of hand tools, portable tools, and industrial machines.
- Apply appropriate construction techniques and terminologies.

Content Standard II. Develop communication, employability and life management skills.

Benchmarks:

- Demonstrate an awareness/practice site safety management.
- Display responsibility, self-esteem, sociability, self management, integrity, and honesty.
- Demonstrate leadership and fellowship qualities.



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**CONTENT STANDARDS AND COURSE BENCHMARKS WITH INDICATORS
FOR BUILDING TRADES:**

- Standard I. Demonstrate comprehension, computation, and applied technology skills. Students in Building Trades should be able to...**
- Benchmark:** **Read construction drawing to build a structure.**
- Indicators: Interpret a blueprint demonstrating thorough understanding. Demonstrate awareness of basic construction codes and the sources of specific codes and zoning information.
- Benchmark:** **Organize and schedule construction activity.**
- Indicators: Participate in the development of time lines for completion of the project.
Read blue prints to determine which job tasks can be completed as student projects and which projects will require subcontracting.
Observe subcontracted work to identify skills necessary to complete this portion of the project.
Communicate with inspectors and sub-contractors.
- Benchmark:** **Demonstrate understanding of materials required for construction.**
- Indicators: Understand the equipment needed for a construction company. Identify and select materials needed for a construction project.
- Benchmark:** **Demonstrate the safe and proper use of hand tools, portable tools, and industrial machines.**



Indicators: Understand the equipment needed for a construction company.
Identify general hand tools and stationary tools.
Follow general lab safety and procedures.
Use appropriate tools and machines to construct a product.
Set up and operate stationary and portable tools safely and accurately.

Benchmark: Apply appropriate construction techniques and terminologies.

Indicators: Explain the scheduling process used in the construction industry.
Explain the processes needed in order to complete a construction project.
Identify and select materials and equipment needed on a construction site.
Comply with lab and equipment safety rules.

Standard II. Develop communication, employability and life management skills. Students in Building Trades should be able to...

Benchmark: Demonstrate an awareness/practice site safety management.

Indicators: Comply with lab and equipment safety rules. (Wear safety glasses)
Identify safe and unsafe practices when working with equipment
Maintain clean and orderly work area
Follow maintenance procedures (reporting equipment failures).

Benchmark: Display responsibility, self-esteem, sociability, self management, integrity, and honesty.

Indicators: Attend on time and be on task
Demonstrate trustworthy behavior (e.g., Work without direct supervision).
Accept, perform, and complete all duties.
Manage time and materials effectively.

Benchmark: Demonstrate leadership and fellowship qualities.

Indicators: Work beyond instruction.
Accept and benefit from constructive criticism.
Demonstrate trustworthy behavior (e.g., Work without direct supervision).
Work cooperatively with others.



No student enrolled in the Urbandale Community School District shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination in the District's programs on the basis of race, color, creed, sex, religion, marital status, ethnic background, national origin, disability, sexual orientation, gender identity, or socio-economic background. The policy of the District shall be to provide educational programs and opportunities for students as needed on the basis of individual interests, values, abilities and potential.

