Architecture Construction Communication & Transportation Exploring Construction Eighth Grade Course Number: 46.02600

Course Description: This course will provide an exploratory foundation in construction. It is designed to be taught in a 9-week rotation in 45-minute daily classes. Standards should be taught in the order presented with the exception of Standards 1 and 7 being embedded standards with ongoing learning regarding employability skills, career investigation, and career-technical leadership opportunities. Through integrated instructional activities, students will have opportunities to apply employability skills and to research possible career options in the construction Industry. They will also complete many hands-on activities to build a strong foundation of construction techniques/skills. Capstone projects should be incorporated at the completion of all standards as time allows. Students who successfully complete this course will be prepared for the following pathways upon entering high school: Construction-carpentry, masonry, electrical, and plumbing.

Demonstrate employability skills required by business and industry.

Course Standard 1

ACCT-MSCONST8-1

The following elements should be integrated throughout the content of this course.					
1.1 Communicate effectively through writing, speaking, listening, reading, and interpersonal abilities.					
Telephone and Email	Communicating at	Listening			
Etiquette	Work				
Telephone Conversations	Improving	Reasons, Benefits, and Barriers			
	Communication Skills				
Barriers to Phone	Effective Oral	Listening Strategies			
conversations	Communication				
Making and Returning	Effective Written	Ways We Filter What We Hear			
Calls	Communication				
	Effective Nonverbal	Developing a Listening			
	Skills	Attitude			
	Effective Word Use	Show You Are Listening			
	Giving and Receiving	Asking Questions			
	Feedback				
		Obtaining Feedback			
	tively through writing, spea Telephone and Email Etiquette Telephone Conversations Barriers to Phone conversations Making and Returning	tively through writing, speaking, listening, reading, and Telephone and Email Etiquette Communicating at Etiquette Work Telephone Conversations Improving Communication Skills Barriers to Phone Effective Oral conversations Communication Making and Returning Calls Communication Effective Written Calls Effective Nonverbal Skills Effective Word Use Giving and Receiving			

Nonverbal	Written	Speaking	Applications and Effective
Communication	Communication		Résumés
Communicating	Writing Documents	Using Language	Completing a Job Application
Nonverbally		Carefully	
Reading Body Language		One-on-One	Writing a Cover Letter
and mixed Messages		Conversations	

Getting Others to Listen

Matching Verbal and	Small Group	Things to Include in a Résumé
Nonverbal communication	Communication	
Improving Nonverbal	Large Group	Terms to Use in a Résumé
Indicators	Communication	
Nonverbal Feedback	Making Speeches	Organizing Your Résumé
Showing Confidence Nonverbally	Answering Questions	Writing an Electronic Résumé
,	X7' 1 1 N6 1' A'1	
Showing Assertiveness	Visual and Media Aids	
	Errors in Presentation	

1.2 Demonstrate creativity by asking challenging questions and applying innovative procedures and methods.

Teamwork and Problem Solving	Meeting Etiquette
Thinking Creatively	Preparation and Participation in Meetings
Taking Risks	Conducting Two-Person or Large Group Meetings
Building Team Communication	Inviting and Introducing Speakers
	Preparing Visual Aids

1.3 Exhibit critical thinking and problem-solving skills to locate, analyze and apply information in career planning and employment situations.

Problem	Customer Service	The Application Process	Interviewing Skills	Finding the
Solving				Right Job
Transferable Job	Gaining Trust and	Providing Information,	Preparing for an	Locating Jobs and
Skills	Interacting with	Accuracy and Double	Interview	Networking
	Customers	Checking		
Becoming a	Learning and Giving	Online Application	Questions to Ask in	Job Shopping
Problem Solver	Customers What	Process	an Interview	Online
	They Want			
Identifying a	Keeping Customers	Following Up After	Things to Include in	Job Search
Problem	Coming Back	Submitting an Application	a Career Portfolio	Websites
Becoming a	Seeing the	Effective Résumés:	Traits Employers are	Staying Motivated
Critical Thinker	Customer's Point		Seeking	to Search
	Selling Yourself and	Matching Your Talents to	Considerations	
	the Company	a Job	Before Taking a Job	
		When a Résumé Should be		
		Used		

1.4 Model work readiness traits required for success in the workplace including integrity, honesty, accountability, punctuality, time management, and respect for diversity.

Workplace Ethics	Personal	Employer	Business Etiquette	Communicating at
	Characteristics	Expectations		Work
Demonstrating Good	Demonstrating a	Behaviors	Language and	Handling Anger
Work Ethic	Good Attitude	Employers Expect	Behavior	
Behaving	Gaining and	Objectionable	Keeping Information	Dealing with
Appropriately	Showing Respect	Behaviors	Confidential	Difficult Coworkers
Maintaining Honesty	Demonstrating	Establishing	Avoiding Gossip	Dealing with a
	Responsibility	Credibility		Difficult Boss

Playing Fair	Showing	Demonstrating	Appropriate Work	Dealing with
	Dependability	Your Skills	Email	Difficult Customers
Using Ethical	Being Courteous	Building Work	Cell Phone Etiquette	Dealing with
Language		Relationships		Conflict
Showing	Gaining Coworkers'		Appropriate Work	
Responsibility	Trust		Texting	
Reducing Harassment	Persevering		Understanding	
			Copyright	
Respecting Diversity	Handling Criticism		Social Networking	
Making Truthfulness a	Showing			
Habit	Professionalism			

1.5 Apply the appropriate skill sets to be productive in a changing, technological, diverse workplace to be able to work independently and apply teamwork skills.

Expected Work Traits	Teamwork	Time Management
Demonstrating Responsibility	Teamwork Skills	Managing Time
Dealing with Information Overload	Reasons Companies Use Teams	Putting First Things First
Transferable Job Skills	Decisions Teams Make	Juggling Many Priorities
Managing Change	Team Responsibilities	Overcoming Procrastination
Adopting a New Technology	Problems That Affect Teams	Organizing Workspace and Tasks
Use Technology Ethically & Efficiently	Expressing Yourself on a Team	Staying Organized
Interact Appropriately in a Digital World	Giving and Receiving Constructive Criticism	Finding More Time
		Managing Projects
		Prioritizing Personal and Work Life

1.6 Present a professional image through appearance, behavior, and language.

On-the-Job Etiquette	Person-to-Person Etiquette	Communication Etiquette	Presenting Yourself
Using Professional	Meeting Business	Creating a Good Impression	Looking Professional
Manners	Acquaintances		
Introducing People	Meeting People for the First Time	Keeping Phone Calls Professional	Dressing for Success
Appropriate Dress	Showing Politeness	Proper Use of Work Email	Showing a Professional Attitude
Behavior at Conventions		Proper Use of Cell Phone	Using Good Posture
Working in a Cubicle		Proper Use in Texting	Presenting Yourself to Associates
			Accepting Criticism
			Demonstrating Leadership

Course Standard 2

ACCT-MSCONST8-2

Demonstrate the proper use of power tools (Based upon competency of each student) Demonstrate competent use in 3 of the 5 saws listed below

2.1 Demonstrate the proper and safe use of the compound Miter saw

- 2.2 Demonstrate the proper and safe use of the saber/jig saw and/or scroll saw
- 2.3 Demonstrate the proper and safe use of the band saw
- 2.4 Demonstrate the proper and safe use of the table saw
- 2.5 Demonstrate the proper and safe use of the circular saw (optional)

Sample Tasks:

Demonstrate the various saws and assess competencies

Cut out a take home project on the band saw and/or jig saw and/or scroll saw

Rip wood stock to proper width for picture frame on table saw

Cut out picture frame miters on the compound Miter saw

Cut wood stock to length utilizing the circular saw (optional)

Utilize the chalk line to strike a line and cut with the circular saw

Course Standard 3

ACCT-MSCONST8-3

Demonstrate the proper use of fastening power tools

- 3.1 Demonstrate the knowledge of a keyed chuck and keyless chuck on a power drill
- 3.2 Demonstrate the proper selection and use of bits (twist bit, Forstner bit, spade bit, brad point bit, and counter sink bit).
- 3.3 Demonstrate the proper selection of driver bits (Phillips, Torx, and square drive)
- 3.4 Demonstrate the proper set up and use of the drill clutching, camming, and proper chucking of the bit(s)
- 3.5 Demonstrate the proper selection and proper identification between drill and impact drivers
- 3.6 Demonstrate the proper knowledge of the drill and impact drivers anatomy (trigger, speed switch, directional switch, clutch, chuck, drill mode, etc.

Course Standard 4

ACCT-MSCONST8-4

Demonstrate the proper and safe use of pneumatic fastening tools

- 4.1 Demonstrate proper safety procedures for pneumatic tools and compressors
- 4.2 Identify the various types of air Nailers (brad Nailer, framing Nailer, stapler, etc.)
- 4.3 Identify the proper use of the compressor settings, maintenance, and storage (regulator, drain plug, hose connections, etc.)

Sample Tasks:

Set up compressor with proper PSI settings, hose installation, review hazards of compressed air devices and hoses.

Load proper fasteners into pneumatic fastening tools (brads, strip nails, coil nails, etc.)

Demonstrate proper and safe areas for pneumatic nails to be installed

Demonstrate proper pneumatic tool alignment on stock to avoid blowout of fasteners

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Course Standard 5

ACCT-MSCONST8-5

Demonstrate the safe and proper use of sanders and abrasives

5.1 Demonstrate the proper and safe use of the disc, belt, and drum sander (table mounted)

- 5.2 Demonstrate the proper and safe use of the handheld belt sander
- 5.3 Demonstrate the proper and safe use of the vibrating/palm sander

5.4 Demonstrate the proper grit selection of the sandpaper to be used

Sample Tasks:

Demonstrate the use of sanding equipment to remove tool marks, burn marks, and finish sanding for project

Course Standard 6

ACCT-MSCONST8-6

Demonstrate proper and safe use of the measuring tape and safety guidelines

- 6.1 Demonstrate proficient use of the measuring tape to 1/8th of an inch
- 6.2 Demonstrate proficient use of the measuring tape to square structure or layout with equal diagonals and/or the 3,4,5 rule.
- 6.3 Demonstrate the knowledge of how to convert fractions to decimals and decimals to fractions
- 6.4 Demonstrate the knowledge of proper safety equipment for personal use (Don safety glasses, face shield, gloves, hard hat, respirator, etc.)
- 6.5 Demonstrate the knowledge of shop safety. (Such as masks, shop vac, and filter usage for dust collection systems)

Sample Tasks:

Utilize the measuring tape and chalk line to layout a square on the floor Utilize the ruler game to teach proficient use of the measuring tape quickly Utilize the tape measure for warm up/bell ringers at beginning of class and at end

Course Standard 7

ACCT-MSCONST8-7

Examine how SkillsUSA is a co-curricular part of career and technical education through leadership development, school and community service projects, and competitive events.

- 7.1 Explain the purpose, mission, objectives, motto, colors, official dress and other distinguishing characteristics of SkillsUSA.
- 7.2 Explain how participation in SkillsUSA can promote lifelong responsibility for community service, professional growth and development.
- 7.3 Explore the impact and opportunities that SkillsUSA can develop to bring business and industry together with education in a positive working relationship through innovative leadership and career development programs.
- 7.4 Explore the local, state, and national opportunities available to students through participation in SkillsUSA, including but not limited to conferences, competitions, community service, philanthropy, and other SkillsUSA activities.