

CTE Approval Self-Study Report

Construction Technology

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Self-study

Self-study is the first step in the career and technical education approval process. The self-study review is required for all existing programs and new programs seeking approval. Its purpose is to bring together partners to review the CTE program, propose relevant modifications, and evaluate the degree to which the program meets the policy requirements approved by the Board of Regents on February 6, 2001.

Self-study review will include:

Curriculum review

Benchmarks for student performance and student assessment

Teacher certification and highly-qualified status of instructional staff

Work-based learning opportunities

Teacher and student schedules

Resources, including staff, facilities, and equipment

Accessibility for all students

Work skills employability profile

Professional development plans

Projected number of students to be served

Source: http://www.p12.nysed.gov/cte/ctepolicy/guide.html

Construction and Extraction Occupations

Employment of construction and extraction occupations is projected to grow 10 percent from 2014 to 2024, faster than the average for all occupations, increasing from 6.5 million jobs to 7.2 million jobs. Overall growth in the economy and population will increase demand for new buildings, roads, and other structures, which will create new job openings for construction and extraction occupations.

The median annual wage for all construction and extraction occupations was \$43,610 in May 2016, which was higher than the median annual wage for all occupations of \$37,040.

Occupational Title	SOC Code	Employment, 2014	Projected Employment,	Change, 2014-24	
			2024		
				Percent	Numeric
Construction laborers	47-2061	1,159,100	1,306,500	13	147,400
Helpersbrickmasons, blockmasons, stonemasons, and tile and marble setters	47-3011	23,500	28,800	22	5,300
Helperscarpenters	47-3012	39,700	42,700	7	3,000
Construction and building inspectors	47-4011	101,200	109,200	8	8,100
Carpenters	47-2031	945,400	1,005,800	6	60,400
Brickmasons and blockmasons	47-2021	78,100	92,600	19	14,500
Stonemasons	47-2022	14,900	17,100	14	2,100
Floor layers, except carpet, wood, and hard tiles	47-2042	17,100	19,200	12	2,100
Carpet installers	47-2041	45,300	45,100	-1	-200
Construction managers	11-9021	373,200	391,100	5	17,800

Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2016-17 Edition, Carpenters, on the Internet at https://www.bls.gov/ooh/construction-and-extraction.htm (visited September 22, 2017).

New York Employment Demand Profile: Construction

Source: Labor Insight Jobs (Burning Glass Technologies), Summary Demand and Requirements Table by Occupation, New York state data, Sep. 01, 2016 - Aug. 31, 2017.

Category:		Demand	and Employ	ment		Salary		Education	level based o	n nosting real	irements (*e	xcluding NA)		Education	vel of emplo	oved
category.		Demana	and Employ	ment		Salary		Luucation		in posting requ				individuals	.ver or empte	ycu
Source:		Burnin	BLS/OFS	BGT Proie	ctions	Burning	BLS/OFS	Burning G	lass					ACS 2014		
		g Glass	2016	2011030		Glass	2016	5								
SOC	Occupation Title	Numb	Number	%	Projected	Mean	Mean	%	%	%	%	%	% with	% with a	% with	% with a
Code		er of	Employe	Change	Statewide	Advertised	Salary	Requiri	Requiring	Requiring	Requiring	Requiring	Unspeci	high	Some	Bachelor'
(ONET-6)		Job	d 2016	in	Change in	Salary		ng high	Post-	Bachelor's	Master's	Doctoral	fied	school	College	s or
		Postin		Employ	Employment,			school*	Secondary	Degree*	Degree*	Degree*	Educati	diploma	or an	higher
		gs		ment,	2016-2026				or	-	-	-	on	or less	Associate	_
				2015-					Associate'						's	
				2016					s Degree*							
47-2061	Construction Laborers	1,117	61,050	4%	23.8%	\$55,074	\$48,080	100%	0%	0%	0%	0%	74%	73%	22%	5%
47-4011	Construction and	602	7,240	0%	14%	\$66,472	\$65 <i>,</i> 810	50%	15%	62%	6%	2%	43%	29%	45%	26%
	Building Inspectors															
47-3012	HelpersCarpenters	69	1,270	-43%	20.6%	\$28,244	\$32,670	N/A	N/A	N/A	N/A	N/A	1%	76%	21%	3%
47-3011	HelpersBrickmasons,	6	1,280	36%	21.1%	N/A	\$35,880	N/A	N/A	N/A	N/A	N/A	17%	76%	21%	3%
	Blockmasons,															
	Stonemasons, and Tile															
	and Marble Setters															
11-9021	Construction Managers	3,274	12,640	-9%	12.1%	\$102,007	\$121,030	14%	7%	88%	15%	1%	43%	33%	33%	34%
47-2031	Carpenters	874	48,220	0%	16%	\$44,936	\$61,900	100%	0%	0%	0%	0%	87%	68%	26%	6%
47-2021	Brickmasons and	45	6,300	17%	23%	N/A	\$73,990	N/A	N/A	N/A	N/A	N/A	2%	78%	18%	3%
	Blockmasons															
47-2042	Floor Layers, Except	44	470	6%	16.9%	N/A	\$38,360	N/A	N/A	N/A	N/A	N/A	2%	77%	19%	4%
	Carpet, Wood, and Hard															
	Tiles															
47-2022	Stonemasons	33	1,680	0%	25.6%	N/A	\$46,890	N/A	N/A	N/A	N/A	N/A	3%	78%	18%	3%
47-2041	Carpet Installers	6	1,350	0%	10.7%	N/A	\$61,020	N/A	N/A	N/A	N/A	N/A	17%	77%	19%	4%

*This report provides information on both the preferred and minimum/required education levels for job postings. For this reason, a job posting may be counted in more than one of the educational categories shown in the table below. Please also note that Bureau of Labor Statistics (BLS) data is only available at the 6-digit SOC code level.

A. Curriculum Review

The curriculum review is a step in the self-study process. It is an opportunity for members of the self-study team to evaluate the proposed curriculum for completeness in terms of the knowledge, skills, and competencies required in the program field. The team reviews the curriculum to ensure that course content in the career and technical education program meets State Education Department regulations, contributes to achievement of state and industry standards, and prepares students for successful completion of a technical assessment. Approved curriculum content is nonduplicative, challenging, organized along a continuum of difficulty, and free of bias.

CTE program approval does not constitute Department approval or endorsement of proprietary curriculum or related curriculum products. Program approval indicates only that a school district or BOCES has provided the Department with assurances that the curriculum review has been completed.

Process

- The school district or BOCES identifies the faculty members and other individuals who will be involved in conducting the curriculum review
- The school district or BOCES determines the procedures used in completing the curriculum review
- Reviewers confirm that CTE program content aligns with state CDOS standards, relevant state academic standards, and related business and industry standards
- Reviewers confirm that CTE program content includes integrated or specialized units of credit
- Reviewers confirm that the CTE program meets unit of credit and other distributive requirements
- .

Documentation

Documentation of the curriculum review is maintained by the school district or BOCES and is updated whenever modifications are made to the approved CTE program. Recommendations from curricular review should be included in the self-study report and reviewed by the external committee.

Resources

New York State graduation requirements

http://www.emsc.nysed.gov/part100/pages/1005.html

Source: http://www.p12.nysed.gov/cte/ctepolicy/guide.html



Construction Technology

The Construction Technology program teaches students the essential skills needed to begin a career in the building and construction trades.

Students will gain real-world knowledge and hands-on experience in the fundamental components of carpentry, drywall, painting, framing, roofing, floor installation, door and window installation, blueprint reading, siding, electicral wiring, plumbing, proper tool use, and OSHA safety training. Student will develop and demonstrate integrated academics and emplyability skils through class activities, projects, community service and professional development.

Students in the Construction Technology program at Nottingham High School will earn OSHA & NOCTI construction safety standards and credentials. They will have the opportunity to earn the Core, Laborer 1 and Laborer 2 credentials as well.

CAREER OPPORTUNITIES:

Construction Worker, Framing Carpenter, Painter/Wall Coverer, Roofer, Carpenter, Electrician, Plumber, Concrete Finisher, Drywall Finisher, Glazier & Glass Worker, Tile/Floor/Window Installer

Course of Study Construction Technology

9th Grade	10th Grade	11th Grade	12th Grade
Construction Tech 100 CNT100 (1 Credit CTE)	Construction Tech 200 CNT200 (1 Credit CTE)	 Construction Tech 300 CNT300 (1 Credit CTE) Construction Tech CTE Integrated Science CTE300 (1 Credit) 	 Construction Tech 300 CNT400 (1 Credit CTE) Construction Tech CTE Integrated ELA CTE400 (1 Credit)

DISTRICT REQUIREMENTS

- Students must pass CTE Construction Technology 100, 200, 300 and 400 to challenge the course approved technical assessment.
- Student will have earned the 11th grade integrated math credit upon successful completion of the CTE Construction Technology 100, 200 and 300.
- Student will have earned the 12th grade integrated ELA credit upon successful completion of the CTE Construction Technology 100, 200, 300 and 400.
- Student will receive the CTE Endorsement upon successful completion of the CTE Construction Technology Program, passage of the prescribed technical assessment and completion of a commencement level project.

CONSIDERATIONS

Student will challenge the approved pathway assessment "Core Essentials" by their sophomore academic year.

Return to TOC

Syracuse City School District Career & Technical Education Programs Course Syllabus CNT 100: Construction Trades Technology 100



Construction Trades Program Overview:

At the completion of this program, students will understand and be able to apply the trade skills necessary for entry-level employment, apprenticeships and post-secondary education. Units of study include safety training, framing, roofing, door and window installation, hand and power tool use, concrete, masonry and bricklaying, blueprint reading, plumbing, electrical, and construction equipment and rigging. The program includes theory and authentic hands-on, project-based activities. Students will earn a math and ELA credit upon successful program completion. Students will also have the opportunity to earn the National Center for Construction Education and Research (NCCER) Construction Core and OSHA 10 certifications, recognized throughout the construction industry as indicators that the applicant is "job ready."

Course Description:

Level 100 Construction Trades provides basic technical knowledge and safety skills to begin preparing for a career in the field. Topics include safety, construction math and measurement, project estimating, hand and power tool identification and use, construction drawings, materials handling and processing and construction rigging. Communication and customer service are also covered.

Course Objectives:

- 1. Implement key safety procedures while working on a construction site.
- 2. Pass the OSHA 10 Safety Certification exam.
- 3. Possess the knowledge and skill to safely and accurately use hand and power tools in construction projects.
- 4. Apply basic math to calculate measurements in construction activities.
- 5. Read and interpret building plans to access information necessary to complete construction projects.
- 6. Demonstrate an understanding of the working properties of materials used on a construction site.
- 7. Accurately handle and process various construction materials.

District Requirements:

- Students qualify for Occupational Safety and Health Administration (OSHA) 10-hour course at the successful completion of the Construction 100 Safety module.
- Students qualify to take the NCCER Core exam after Construction 100 at the end of 9th grade.
- Students will earn integrated science credit upon successful Completion of Construction 100, 200, and 300.
- Students will have earned 12th grade ELA credit upon successful completion of Construction 100, 200, 300 and 400.
- Students will receive the CTE Endorsement upon successful completion of the Building Construction Skills program and achieving a passing score on the NCCER Core Technical Assessment.

Integrated Academics: N/A

Student Equipment and Supplies

- School will provide: All necessary lab materials and classroom equipment
- Student will provide: A notebook for taking and saving notes; pen/pencils.

Additional Course Policies

Students are required to follow all classroom and lab conduct and safety procedures.

Textbooks:

- NCCER Core Curriculum: Introductory Craft Skills (Pearson) 4th edition
- NCCER Tools for Success: Critical Skills for the Construction Industry (Pearson) 3rd edition

Grading:

- Module classwork: 30%
- End of Module assessment: 30%
- Project work: 20%
- Participation: 20%

Academic Calendar:

Quarter	Units of Study
1	 Construction safety and OSHA 10 certification.
	 Construction Math measurement and materials estimates.
	 Construction related health, safety and environmental
	management.
2	 Hand tool use and safety.
	 Power tool use and safety.
	Wood working projects.
3	Construction drawings.
	 Architectural software applications.
	Shed construction.
	 Resumes, cover letters, and personal profiles.
4	 Introduction to basic equipment rigging.
	 Device design and constructions for gaining a mechanical
	advantage.
	 Materials processing and handling.

Syracuse City School District Career and Technical Education Program Scope and Sequence CNT100: Construction Trades Technology 100



Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
Weeks 1-4 Basic Safety	 What does safety look like in building and construction trades? What is the role and responsibility of workers in in maintaining a safe work environment? Why is a safe work site valued by the Construction Industry? What is OSHA? What purpose does OSHA serve in ensuring that 	 Understand the importance of health, safety, and environmental management systems in organizations Read and understand manufacturer's materials safety data sheets Identify and interpret universal signs and symbols to ensure safety at job sites Describe the importance of 	 Student research on industry safety standards and the economic impacts of job-related accidents/injuries Completion of 10-Hour OSHA Safety Training OSHA 10 Exam NCCER Basic Safety Module Assessment 	Career Ready Practice CRP 2, 7, 11 Cluster Standards AC 3 Pathway Standards AC-CST 5 AC-DES 2 AC-MO 1	Literacy RST.9-10.1,4,7, 10 ELA RI.9-10.4 Math S-ID.1,2,3,4,5,6
	 workers are safe on a construction site? What is the function of the EPA? What is MSDS? 	 compliance with safety standards and explain how it effects overall production in an organization Compliance with all organizational safety policies and procedures 		Industry Standards	Science
Week 5 Safety Projects:	 What are some common construction/building site hazards/dangers to workers? How can you identify safety hazards in different construction-related situations? What steps should you take in assessing and correcting 	 Identify types and sources of workplace hazards common to various construction settings Identify universal signs/symbols related to safety precautions Apply safety principles to correct identified hazards in a variety of construction- 	 Identification of workplace hazards in various settings and safety measures to prevent accidents & injuries Statistics on the cost of accidents to businesses Research projects: 	Career Ready Practice CRP 1, 2, 4, 12 Cluster Standards AC 3 Pathway Standards AC-CST 5,	Literacy RI 1 9-10.4,7 RST.9-10.4,7 WHST.9-10.7,8,9 ELA SL.9-10.1,2,4,5 Math S-ID.1, 2,3,4, 5, 6
	unsafe working conditions?How can good communication skills facilitate worker safety?	 related settings Communicate potential or actual safety concerns to peers and supervisors 	Construction-related lost time accidents and associated costs to companies, including penalties, sanctions by OSHA • Safety posters.	AC-DES 2 AC-MO 1 Industry Standards	Science

Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
			 brochures, and/or displays Student designed Project rubric will be used to assess project result in compliance with OSHA regulations 		
 Weeks 6-7 Why are written and verbal communication skills Skills – Skills for Success Module What types of written and verbal communication are commonly used at worksites? What are differences in communication between supervisors and workers? What strategies could you use to improve your communication skills, especially when under stress Why are written and verbal communication skills Communicate in the language of the construction industry Develop effective verbal communication skills for successful employment Write personal and technical communication skills as they relate to successful interpersonal, working relationships Analyze personal communication style and explore strategies to 		 Situational role plays Case scenarios Guest speaker from HR Student research on communication and 	Career Ready Practice CRP 1, 4	Literacy WHST.9-10.7 ELA RI.9-10.1,4 SL.9-10.1	
		customer service skills • NCCER Module Assessment	Cluster Standards AC 1 Pathway Standards AC-CST 5 Industry Standards	Math Science	
Weeks 8-9 Employability Skills	 at the job? What are "employability skills"? What are the key personal characteristics of successful employees? What does responsibility look like as it relates to employability? What does teamwork mean at a job site? What are the key elements of professionalism? Why is the ability to solve problems important in employment? How can you best prepare for a job interview? 	 improve/enhance skills Identify roles, responsibilities and personal characteristics by researching workplace/jobsite information Demonstrate responsibility, teamwork, respect and professionalism in the classroom and shop Work with peers and supervisors to problem solve and collectively accomplish tasks 	 Field trip to construction company Guest speakers for interview preparation Student mock interviews with individuals from industry NCCER Module Assessment precedents 	Career Ready Practice CRP 1, 4, 7, 9, 11 Cluster Standards AC 1, 5 Pathway Standards AC-CST 1, 6 AC-DES 2, 5 AC-MO 2 Industry Standards	Literacy WHST. 9-10.7 ELA SL.9-10.2 Math Science

Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
Weeks 10-13 Construction Math	• Why is knowledge of basic Algebra and Geometry important in building and construction trades?	 Applying basic measurement functions Use basic math functions to complete jobsite/ workplace 	 Measurement worksheets and applications – square feet, cubic feet, etc. 	Career Ready Practice CRP 2	Literacy RST.9-10.7
	 How do math skills relate to specific building and construction projects? How can solid math skills increase opportunities for career advancement and higher wages? 	 tasks Apply formulas to determine ratios, fractions, 	 Solving math problems in specific scenarios requiring the selection and application of appropriate formulas NCCER Module Assessment 	Cluster Standards AC 1 Pathway Standards	ELA
		 Determine correct math application for specific construction-related scenarios 		AC-DES 8	G-CO.1,5 G-SRT.6,8 G-GPE.5,7 G-MG.1,3
		 Use appropriate formulas to determine percentages /decimals Use mathematical formulas to determine area and volume of various 		Industry Standards	Science
Week 14	What skills do you need to	structures Identification and	I Ising trade-related	Career Ready	Literacy
Construction Math Project:	What skins do you need to calculate materials for a roofing project?What sequence of steps are necessary to calculate the	 Identification and application of concepts/ processes used in calculating materials estimates 	 vocabulary, students will type a project description Students will compete 	Practice CRP 2, 4, 6 Cluster Standards	RST.9-10.2,4 WHST.9-10.1,2
Roofing Estimates & Concrete Pad	material needed for a roof system?Why is it important to	Estimate resources & materials required for a specific project or problem	with each other for the most accurate and cost effective roofing	AC 1, 2	SL.9-10.1
Estimates	 Why is it important to communicate using the language and terminology of the construction industry? What is the job description for communications: 	 Communications: Use oral and written communication skills in creating, expressing and interpreting information and ideas 	estimate that meets client wants and needs • Students will research education, wages and	Pathway Standards AC-DES 2, 8	Math G-CO.1,5 G-SRT.6,8 G-GPE.5,7 G-MG.1,3
	• What are the working conditions, job opportunities and average wages for roofers?	including technical terms and information	 roofers in construction jobs Guest speakers will share roofing job descriptions, hourly wages and education requirements 	Industry Standards	Science
Weeks 15-17 Hand Tools and	 What are the basic hand tools used in building and construction trades? 	 Interpret industry standards for hand tool safety Identify and describe the 	 Students will identify and select appropriate tools for assigned tasks 	Career Ready Practice CRP 2, 11, 12	Literacy RST.9-10.1,2,4

Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
Safety	 What is the function of each tool? What are the correct What are the correct function of hand tools Understand the importance of selecting the "right function of hand tools function of hand t		Students will apply skills on selected tools, complying with all prescribed safety	Cluster Standards AC 1	ELA RI.9-10.4
	 What safety considerations apply to the use of the respective hand tools? 	Use basic hand tools in in compliance with all safety standards	tools in in all safety • Guest speaker from the industry	Pathway Standards AC-CST 8, 9 AC-MO 2, 4, 5	Math G-MG.3 S-ID.1,2,3,4,5,6
	 What is PPE and how does it relate to hand tool use? 	 Onderstand the importance of tool maintenance and safety Analyze and describe the effects of unsafe tool applications for workers 	Assessment	Industry Standards	Science
Weeks 18-19 Hand Tool Project	 How can you use basic hand tools to solve a problem? How do you select the appropriate tools for specific problem or complete a 		 Lab practical on tool identification Students will type a technical description of 	Career Ready Practice CRP 2, 4, 5, 6, 8, 11	Literacy RST.9-10.1,2,4 WHST.9-10.1,2
	projects or jobs?Why is safety in hand tool use important?	and tool view of complete tasks	Cluster Standards AC 1	ELA RI.9-10.4 W.9-10.2,4,6	
			rubric evaluation	Pathway Standards AC-CST 8, 9 AC-MO 2, 4, 5	Math G-MG 3 S-ID.1,2,3,4,5,6
				Industry Standards	Science
Weeks 20-22 Power Tools and Safety	 What are the basic power tools used in building and construction trades? What is the function of each respective power tool? 	Use and maintain appropriate tools, machinery, equipment, and resources to accomplish project goals	 Lab practical on tool identification Quiz on power tools and safety requirements 	Career Ready Practice CRP 2, 11, 12	Literacy RST.9-10.1,2,4 ELA RI.9-10.4
	 What safety rules apply to each of the power tools? What PPE should be used 	 Apply safety protocols as prescribed for each covered power tool 	 Shop observations of power tool use NCCER Module 	Cluster Standards AC 1	Math G-MG.3 S-ID.1,2,3,4,5,6
	for power tools?How can you identify potential safety issues in the use of power tools?	 Analyze potential safety issues and make recommendations for their prevention 	Assessment	Pathway Standards AC-CST 8, 9 AC-MO 2, 4, 5 Industry Standards	Science
Weeks 23-24	How can you use basic	Student developed	Technical writing	Career Ready Practice	Literacy WHST.9-10.4,6,

Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science		
Power Tool Projects	power tools to solve adescription of problems/assignment descriptionproblem?projects to be completed,the selected project		power tools to solve a desc problem? proje	bower tools to solve a description of problems/ assignment describitor of problem? the selected projects to be completed, the selected project	assignment describing the selected project	CRP 2, 11, 12	7,8 RST.9-10.1-4
	 How do you identify the correct power tool for a job? Why are safety checks and 	 using the vocabulary of the industry Selection and demonstration of proper tool use for project completion in compliance with all safety rules 	Student and teacher designed projects- rubric evaluated	Cluster Standards AC 1	ELA W.9-10.2,4,6		
	PPÉ so important when working with power tools?		 Lab practical in tool identification and use 	Pathway Standards AC-CST 8, 9 AC-MO 2, 4, 5 Industry Standards	Math G-MG.3 S-ID.1,2,3,4,5,6		
Weeks 25-27 Construction	 What are construction drawings? How are project building 	 Read, interpret, and use technical drawings, documents, and 	Guest Speaker: Architect Eield trip to King & King	Career Ready Practice CRP 2 4	Literacy RST.9-10.1,3,4		
Drawings	 How are project building requirements communicated? How do industry standards effect construction drawings? Why must plans follow industry standards while they are being created? 	 bocuments, and specifications to plan a project Recognize how specifications and standards are arranged for proper access 	 Field the to King & King Individual student drawings NCCER Module Assessment 	Cluster Standards AC 1, 6 Pathway Standards AC-DES 2, 6, 7 Industry Standards	Math G-CO.9,12,13 G-SRT.1 G-MG.3 N-Q.3 Science		
Weeks 28-29 Construction Drawing Project:	 Why is the ability to read and interpret building plans a necessary skill for the construction worker? What are some commonly used software applications in construction/architectural drawings? How do basic skills in Computer-Aided Design (CAD) assist you in better understanding the process of creating suitable building plans? 	 Use architect's plan, manufacturer's illustrations and other materials to communicate specific data and visualize proposed work Understand and apply computer software to develop building/ construction plans 	 Building plans submitted and assessed for adherence to building plan standards Student created building plans using Autodesk Revit Architecture software 	Career Ready Practice CRP 2, 4, 11 Cluster Standards AC 1, 6 Pathway Standards AC-DES 2, 6, 7 Industry Standards	Literacy RST.9-10.1,2,3, 4,7 ELA RI.9-10.4 Math G-SRT.6,8 G-CO.2,6 G-GPE.6,7 Science		

Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
Weeks 30-31	 What is construction equipment rigging? How is it used in the industry? Why is it important to discern how to safely move large, heavy loads? What role does verbal and written communication play in working with peers and Apply principles of physics as they relate to worksite/jobsite situations in working with materials and load applications Apply principles of physics as they relate to worksite/jobsite situations Apply principles of physics as they relate to worksite/jobsite situations Apply principles of physics as they relate to worksite/jobsite situations Apply basic concepts of statics and loads to planning Develop technical writing skills in the language of the 	• Apply principles of physics as they relate to	Student worksheetsGuest speaker/lecturer	Career Ready Practice	Literacy WHST.9-10.5
Basic Construction Equipment		worksite/jobsite situations in working with materials and load applications	from JPW Construction site field trip	CRP 2, 4, 8, 11	ELA SL.9-10.1,4
Rigging		 Lab projects: Select and demonstrate the use of appropriate rigging equipment for specific job 	Cluster Standards AC 1	Math N-Q.1,2,3 G-CO.9 G-MG.1,2,3	
	customers?	 profession Articulate the appropriate equipment for a specific construction problem/job 	 Analyze & articulate basic rigging concepts & processes to peers and supervisors 	Pathway Standards AC-CST 5, 8, 9	Science
			NCCER Module Assessment	Industry Standards	
Week 32	What is meant by "materials processing and handling"?	Identify the physical properties present when using common construction	Assignments identifying materials and determining	Career Ready Practice	Literacy WHST.9-10.8,9
Materials Processing and	important for safe materials processing and handling?	materials in order to handle the materials safely,	 physical properties of each Assign appropriate processing and handling, based on physical properties NCCER Module 	0111 2, 4, 0	ELA
Handling	What factors should be considered in determining correct materials handling?	 effectively and efficiently Apply concepts of material handling based on physical 		Cluster Standards AC 1, 2, 3	Math G-GMD.4
		properties		Pathway Standards AC-CST 5	Science
			Assessment	Industry Standards	
Week 33	 How can mechanical advantage be used to move 	 Employ critical thinking skills independently and in 	 Students will design and develop a tool that 	Career Ready Practice	Literacy WHST.9-10.9
Materials rigging and handling	a heavy load?What are 5 considerations	teams to solve problems and make decisions (e.g.,	will provide mechanical advantage in moving a	CRP 2, 4, 8	ELA
project:	involved in pre-task planning? • How would you determine	analyze, synthesize and evaluate)	load-rubric evaluated	Cluster Standards AC 1, 2, 3	Math G-GMG.1, 2, 3
	the best lifting or moving aid for a specific material?			Pathway Standards AC-CST 5	Science
				Industry Standards	

Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science	
Week 34 Communication	 What kinds of information should be included in a resume? 	 Identify appropriate responsibilities and personal characteristics by 	 Student developed resumes and cover letters for employment 	Career Ready Practice CRP 1, 4, 7, 9, 11	Literacy WHST. 9-10.4	
and Employability skills Project:	What should a professional resume look like?	researching workplace/jobsite information • Identify the essential elements of the resume and cover letter • Interpreting the job application	 Industry partner to provide feedback on 	Industry partner to provide feedback on		ELA SL.9-10.2,3
Resume and cover letter	 What is included in a cover letter and how is it used? What are the key elements 		student resumes and cover lettersIndustry partner as	AC 1, 5	Math	
development. Email correspondence with an Industry	to include in a professional email? • How do you conduct research about possible		speaker on employer expectations	Pathway Standards AC-CST 1, 6 AC-DES 2, 5 AC-MO 2	Science	
Faitilei	career opportunities?			Industry Standards		
Weeks 35-40 NCCER Core	 What career pathways are available for entry-level construction workers? 	 Identify training, education and certification requirements for 	NCCER Construction Core: Introductory Craft Skills	Career Ready Practice CRP 4, 7, 10	Literacy RI.9-10.10 WHST.9-10.7	
Assessment Review	 How does professional certification improve a 	occupational choiceParticipate in career-related	Assessment		ELA	
NCCER Core Assessment	worker's employability?How does professional certification better prepare	training and/or degree programs • Pass certification exams to	(Students have the opportunity to retake the NCCER	Cluster Standards AC 1, 4, 5, 7	Math	
	the student for additional training through anqualify for licensure an certification in chosen occupational area	qualify for licensure and/or certification in chosen occupational area	Construction Core the following year if they are unsuccessful the	Pathway Standards AC-CST 8, 9		
	secondary education?		first year)	Industry Standards	Science	

Syracuse City School District Career & Technical Education Programs Course Syllabus CNT 200: Construction Trades Technology 200



Construction Trades Program Overview:

At the completion of this program, students will understand and be able to apply the trade skills necessary for entry-level employment, apprenticeships and postsecondary education. Units of study include safety training, framing, roofing, door and window installation, hand and power tool use, concrete, masonry and bricklaying, blueprint reading, plumbing, electrical, and construction equipment and rigging. The program includes theory and authentic hands-on, project-based activities. Students will earn a math and ELA credit upon successful program completion. Students will also have the opportunity to earn the National Center for Construction Education and Research (NCCER) Construction Core and OSHA 10 certifications, recognized throughout the construction industry as indicators that the applicant is "job ready."

Course Description

Construction Trades 200 builds on the knowledge and skills learned in Construction Trades 100. Students will learn the basic skills necessary to work in concrete, masonry and carpentry. Tools and materials for the three skill areas will be learned and practiced in a project based learning environment to gain hands on experience. Learning to form and pour concrete sidewalks, block and stone retaining walls, and building a small utility shed are examples of the practical work that will be accomplished in Construction Trades 200.

Course Objectives

- 1. Differentiate types of concrete and their components and identify appropriate uses for each type.
- 2. Select appropriate tools and equipment for completing concrete and masonry projects.
- 3. Understand and apply carpentry skills to the construction of floor, wall and roof systems.
- 4. Apply math formulas to estimate materials needed or procedures to construct sound building systems.
- 5. Use construction plans to read important information about a building site.
- 6. Safely secure and move materials through the use of Construction rigging procedures.
- 7. Communicate with others on the job site and be able to demonstrate the characteristics necessary for employment.

District Requirements

- Students qualify for Occupational Safety and Health Administration (OSHA) 10-hour course at the successful completion of the Construction 100 Safety module.
- Students qualify to take the NCCER Core exam after Construction 100 at the end of 9th grade.

• Students will receive the CTE Endorsement upon successful completion of the Construction Technology program and achieving a passing score on the NCCER Core Technical Assessment.

Integrated Academics

N/A

Student Equipment and Supplies

- School will provide: All necessary lab materials and classroom equipment
- Student will provide: A notebook for taking and saving notes; pen/pencils.

Textbook

- NCCER Core Curriculum: Introductory Craft Skills (Pearson) 4th edition
- NCCER Tools for Success: Critical Skills for the Construction Industry (Pearson) 3rd edition

Grading

- 30% Unit & Classwork
- 30% End of Unit Assessment
- 20% Project Work
- 20% End of Course Practical

Additional Course Policies

Students are required to follow all classroom professionalism and safety procedures. Please review class policies.

Academic Calendar

Quarter	Units of Study
1	 Safety requirements in concrete work tools and equipment. Site layout. Construction Math measurement and materials estimates.
	 Construction related health, safety and environmental management.
2	 Concrete layouts, footings and foundations. Forming and placing concrete. Foundation systems and structural design
3	 Construction drawings. Architectural software applications. Shed construction. Resumes, cover letters, and personal profiles.
4	 Intermediate Carpentry building skills: Planning, laying out, and construction of wall systems. Planning, laying out, and construction of roof systems.

Syracuse City School District Career and Technical Education Program Scope and Sequence CNT: 200 Construction Technology Trades 200



Time Frame Unit of Study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
Weeks 1-2 Introduction to Concrete Tools & Equipment & Safety in Concrete	 What are the specific safety concerns that you should be aware of while working with concrete? What is MSDS? What sort of Personal 	 Identify concrete tools and utilize in compliance with safety standards Read and interpret manufacturer product safety data 	 Group projects: Student developed safety posters, based on manufacturer's instructions, product MSDS and OSHA regulations 	Career Ready Practice CRP 1, 2, 5, 12 Cluster Standards AC 1, 3	Literacy Standards RO.9-10.1,4 RST.9-10.1,4 WHST.9-10.2,8,9 ELA SL.9-10.1
Work	 Protection Equipment (PPE) is vital to have when working with Concrete? How should you care for and maintain concrete 	 Identify common concrete equipment and determine the appropriate equipment for each application at a construction aita 	 Campus-based project: Identify and use tools for projects and appropriately care for and maintain the tool inventory at the end of the project 	Pathway Standards AC-CST 5 AC-MO 1	Math Standards
	hand tools when you have finished using them?	 construction site Implement personal and jobsite safety rules and regulations to maintain safe and healthful working conditions and environments 	Module Assessment	industry standards	Science Standards
Weeks 3-5 Introduction to Concrete Construction and	 What is Portland cement and how is it made? What are the aggregates that are used to make concrete? 	 Distinguish/differentiate types of concrete and their components Discuss the value of additives in concrete 	 Student research and group presentations on concrete products and their uses and on concrete finishes 	Career Ready Practice CRP 1, 2, 4, 12	Literacy Standards RST.9-10.1,4 WHST.9-10.2
Finishes	 What are two advantages where using additives in concrete improves the guality of 	 applications Apply mathematical formulas to determine areas and volumes of 	 Application of related construction vocabulary Concrete projects Module assessments 	Cluster Standards AC 1, 3	ELA RI.9-10.4,7 SL.9-10.1,4
 How do climate and soil conditions effect concrete construction? areas and volumes of various structures Select tools, machinery, equipment, and resources that match 		Pathway Standards AC-CST 5, 8, 9 AC-DES 8 AC-MO 1	Math Standards G-GMD.1,3		

	What does steel reinforcement bar do to the strength of concrete in a building system?	 requirements of the job Apply the principles of reinforcement bar in concrete jobs Use data and measurements to solve a problem Apply scientific methods in problem identification, qualitative and quantitative analysis, data gathering, direct and indirect observation and predictions 		Industry Standards	Science Standards
Weeks 6-10 Site	 What is the function of foundations? Why is it vital that the 	 Interpret drawings used in project planning Discuss the purpose of 	Research local, state and national regulatory bodies that govern building	Career Ready Practice CRP 2, 12	Literacy Standards RST.9-10.1,3,4 WHST 9-10.2.4.6
Layouts	footings and foundation of a structure be absolutely level and	 Discuss the purpose of foundations in project layouts Analyze the effects of 	 codes Document the components and 	Cluster Standards AC 1, 6	ELA RI.9-10.1
	square?	 footings and foundations that are not level and square Identify governmental regulations and national, 	 procedures required for specific project approvals Apply math measurement, square footage, volume 	Pathway Standards AC-CST 1, 2, 3, 5, 8	Math Standards G-MG.1,3 G-GMD.4 G-GPE.5,6 G-CO.1,11,12
		state and/or local building codes that apply to a given workplace/jobsite	 Campus-based projects Module Assessment 	Industry Standards	Science Standards
Weeks 11-15 Forming Concrete	What are the key differences between pre- cast and cast-in-place concrete?	Distinguish the differences between pre- cast and cast-in-place concrete	 Student Assignment: Detailed project description for a specific job, using the language of 	Career Ready Practice CRP 2, 12	Literacy Standards RST.9-10.3,9 WHST.9-10.2,4
	Why is form work typically built by carpenters and not	Describe the advantages & disadvantages of each type	the tradeStudent job estimate assignment	Cluster Standards AC 1, 2, 3, 5, 6	ELA SL.9-10.3
	masons?	Estimate resources/ materials required for a specific project or problem	 Campus-based projects Field trip to concrete fabricator Campus-based project Madula project 	Pathway Standards AC-CST 5, 6, 9 AC-DES 2, 8	Math Standards G-MG.3 G-C.3, 5 G-CO.1,11,12 Science Standards
			• wodule assessment		
Weeks 16-20	How do you calculate the number of "yards" of	Use algebraic formulas to determine areas and	Application of math to specific jobs/projects	Career Ready Practice CRP 2, 8, 12	Literacy Standards RST.9-10.1,3

Placing Concrete	 concrete that are required to complete a job? What are the tools and materials used to successfully pour concrete? Why is it so important that concrete be aeriated as it is being poured? 	 volumes of various structures Perform calculations for determining the number of "yards" of concrete for a specific job Select tools, machinery, equipment, and resources that match requirements of the job 	 Correct application of math formulas for project development Campus-based project Module assessment 	Cluster Standards AC 1, 2, 3, Pathway Standards AC-CST 5, 6, 9 AC-DES 2, 8 Industry Standards	ELA Math Standards G-MG.2 G-CO.11 Science Standards
Weeks 21-24 Introduction to Masonry	 What are the major concrete masonry units (CMU) used in construction? What is the purpose of the foundation system in structural design and construction? Why is the "Leaning Tower of Pisa leaning? 	 Examine building systems and components to evaluate their usefulness to a project Incorporate appropriate building systems into a construction project 	 Student research on industrial structures, i.e., bridges, buildings that have failed and analyze the causes and compare structures that have sustained over the years Campus-based project Module assessment 	Career Ready Practice CRP 2, 8 Cluster Standards AC 1, 2, 3 Pathway Standards AC-CST 5, 8, 9 AC-DES 8 AC-MO 1 Industry Standards	Literacy Standards RST.9-10.1,4 WHST.9-10.1,2,4,6 ELA RI.9-10.1,4 Math Standards G-MG.2,3 G-C.3,5 Science Standards
Weeks 25-30 Introduction to Carpentry Floor Systems	 What is the purpose of the wood framed floor system in building construction? What are the key components of a floor system? How does the carpenter determine the sizes of lumber he/she should use in the construction of a floor system? 	 Identify building systems needed to complete a construction project Read, interpret, and use technical drawings, documents, and specifications to plan a project Identify governmental regulations and national, state and/or local building codes that apply to a given workplace/jobsite 	 Student Presentations: Project planning assignment, including a project description, building systems, materials estimate, labor estimate, approval procedures, and timeline for project completion Correct application of floor system vocabulary Correct application of math formulas for projects Student floor system applications Module assessment and campus based project 	Career Ready Practice CRP 1, 2, 8 Cluster Standards AC 1, 3 Pathway Standards AC-CST 5, 8, 9 AC-DES 8 AC-MO 1 Industry Standards	Literacy Standards RST.9-10.1,3,10 WHST.9-10.4,7 ELA RI.9-10.1 SL.9-10.1,3,4 Math Standards G-MG.3 G-CO.1 Science Standards
Weeks 31-33 Wall Systems	 How is the wall system integral to an energy efficient building envelope? What do headers do and 	 Identify building systems needed to complete a construction project Read, interpret, and use technical drawings, 	 Application of knowledge and skills in the use of technical drawings Wall system measurements and 	Career Ready Practice CRP 2, 8, 11, 12 Cluster Standards AC 1, 3	Literacy Standards RI.9-10.1,10 RST.9-10.1,3,4

	 why are they so important? What does 16" on center mean and why is it important to carefully lay out walls with framing studs 16 inches on center? 	 documents, and specifications to plan a project Identify governmental regulations and national, state and/or local building codes that apply to a given workplace/jobsite 	construction Campus based project Module Assessment 	Pathway Standards AC-CST 5, 8, 9 AC-DES 8 AC-MO 1 Industry Standards	Math Standards G-MG.3 G-GMD.4 G-GPE.6 G-CO.1 Science Standards
Weeks 34-38 Roof Systems	 Why are weather and climate key factors in determining sound roof systems? What is the difference between a roof rafter and roof truce design in 	 Identify building systems needed to complete a construction project Read, interpret, and use technical drawings, documents, and 	 Group research on assigned roof systems in various climates and the rational for different systems, including materials used, construction processes 	Career Ready Practice CRP 1, 2, 5, 8, 12 Cluster Standards AC 1, 3	Literacy Standards RST.9-10.1,4 WHST.9-10.2 ELA RI.9-10.1 SL 9 10 1
 and roof truss design in roofing systems? What does pitch mean in roof design? Identify gove regulations a state and/or building code 	 specifications to plan a project Apply related vocabulary Identify governmental regulations and national, state and/or local building codes that apply 	 and governmental regulations/building codes Math applications for materials, squares, pitch Student constructed roof Module Assessment 	Pathway Standards AC-CST 5, 8, 9 AC-DES 8 AC-MO 1 Industry Standards	Math Standards G-GPE.5 G-MG.3 G-CO.1,7,8,10 Science Standards	
Weeks 39-40 Construction 200 Final Practical Assessment	 How could applying the design process be useful in solving a particular building need? 	 Complete required training, education, and certification to prepare for employment in a particular career field Create and implement project plans considering available resources and requirements of a project or problem in order to accomplish realistic planning in design and construction situations 	 Individual research projects on chosen career paths Student completed resumes, cover letters and applications End of course Practical Assessments 	Career Ready Practice CRP 2, 8, 10 Cluster Standards AC 7 Pathway Standards AC-CST 5, 8, 9 AC-DES 4, 8 Industry Standards	Literacy Standards RST.9-10.1,4 WHST.9-10.2,4,6 ELA RI.9-10.1,4 Math Standards Science Standards

Syracuse City School District Career & Technical Education Programs Course Syllabus CNT 300: Construction Trades Technology 300



Construction Trades Program Overview:

At the completion of this program, students will understand and be able to apply the trade skills necessary for entry-level employment, apprenticeships and post-secondary education. Units of study include safety training, framing, roofing, door and window installation, hand and power tool use, concrete, masonry and bricklaying, blueprint reading, plumbing, electrical, and construction equipment and rigging. The program includes theory and authentic hands-on, project-based activities. Students will earn a math and ELA credit upon successful program completion. Students will also have the opportunity to earn the National Center for Construction Education and Research (NCCER) Construction Core and OSHA 10 certifications, recognized throughout the construction industry as indicators that the applicant is "job ready."

Course Description:

Construction 300 continues to expand knowledge and skills learned in the 100 and 200 levels. Students in this course will learn skills necessary to work safely in plumbing, electrical, building envelope, and green building. Tools and materials for the four skill areas will be learned in a project-based learning environment. Examples of project work include learning to plumb a bathroom, wiring a room with lights and receptacles, designing and creating an energy efficient wall system, experimenting with alternative energy models, including energy conservation.

Course Objectives:

By the end of Construction 300 students will be able to:

- 1. Demonstrate skill with plumbing tools, equipment and materials in the application basic plumbing activities.
- 2. Understand and apply skills in electrical theory to perform basic electrical activities in residential construction.
- 3. Apply the concepts of building envelope systems and weatherization techniques.
- 4. Apply concepts of green building and alternative energy practices to construction projects.
- 5. Use math formulas for accurate measurements and performing estimates for construction projects.
- 6. Perform all work activities in compliance with OSHA safety regulations.
- 7. Apply effective communication and relationship management skills with supervisors, peers and customers as necessary for sustained employment in the construction field.

Integrated Academics:

At the completion of Construction Trades 300, students will receive one integrated math credit.

Equipment and Supplies:

School will provide: Tools and resources needed to complete all units and exams. **Student will provide**: A notebook for note taking; pen/pencils, attire suitable for construction work.

Textbook:

- NCCER Construction Technology Trainee Guide (Pearson/Prentice Hall) 3rd edition
- NCCER Your Role in the Green Environment (Pearson) 1st edition

Grading:

- Attendance/participation 10%
- Unit Classwork: 20%
- End of Unit Assessment: 20%
- Project Work: 30%
- Final Exam 20%

Academic Calendar:

Quarter	Units of Study
1	Careers in plumbing
	 Plumbing theory, safety and practice
	 Plumbing tools and materials
	Plumbing skills application
2	Careers in electrical trades
	 Electrical trade theory, safety and practice
	Electrical tools and materials
	 Basic skills in wiring and electrical component installation
3	 Careers in green building and building envelope system design
	 Components of efficient building envelope systems
	 Calculating energy efficiency
	 Introduction to Green building design
	Sustainable design practices
	LEED Certification
4	 Introduction to basic equipment rigging
	 Device design and constructions for gaining a mechanical advantage
	 Materials handling and processing

Syracuse City School District Career and Technical Education Program Scope and Sequence CNT300: Construction Trades Technology 300



Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
Weeks 1-2 Introduction to the Plumbing Profession	 What are the career opportunities in the plumbing profession? What are the names of associations in the plumbing profession? What education and training is required for plumbers? Do you need a certification or license? What personal attributes are important for success in the trade? What is the working environment like for plumbers? 	 Articulate the education and training levels for the trade Discuss the skills and personal attributes necessary for success in the profession Offer the rationale for licensing/certification in the trade Determine the pros and cons of a career in the trade Assess their personal attributes and compare/contrast to those required of the profession 	 Individual research on the profession and construct short papers on their findings, including regulatory bodies, and professional affiliations Group presentations on selected plumbing topics, including graphic representations Effective use of trade related vocabulary 	Career Ready Practice CRP 1, 4, 7, 12 Cluster Standards AC 1, 4, 7 Pathway Standards Industry Standards	Literacy RST.11-12.1,4 WHST.11.12.2 ELA RI.11-12.4,7 W.11-12.1,2,4,6 SL.11-12.1,4 Math Science
	ladder look like in the trade?	the profession's career ladder			
Weeks 3-5 Plumbing Safety	 What specific safety concerns should you be aware of when installing plumbing? What are the building codes for plumbing? What are the key reasons for plumbing codes? Why is adhering to building codes important when "roughing in plumbing"? Who enforces the 	 Implement personal and jobsite safety rules and regulations to maintain safe and healthful working conditions and environments Discuss the reason for standardized plumbing codes and describe the penalties to contractors for noncompliance Cite reasons for accidents and discuss why they 	 Analyze the rationale behind plumbing safety considerations Interpret safety signs and hazard symbols Research economic impact of lost time accidents Compliance with all safety rules, including PPE Project work Unit Assessment 	Career Ready Practice CRP 2, 4, 5 Cluster Standards AC 1, 3 Pathway Standards AC-CST 5, 9	Literacy RST.11-12.4,5,7 WHST.11.12.2 ELA RI.11-12.4,7 SL.11-12.1,4 Math GMD.A.2,3 Science

Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
	 plumbing codes? What is lockout/tagout? What is meant by confined space safety? What are common accidents and reasons for them? What are the costs to employers, employees and society for plumbing accidents? 	 often occur Discuss who bears the costs of accidents at each level: Contractors, their employees, society Create and apply a jobsite safety program to ensure compliance with safe practices and procedures 		Industry Standards	
Weeks 6-7 Tools of the Plumbing Trade	 What is the vocabulary used in the plumbing field? What are the common hand tools are used in 	 Use and maintain appropriate tools, machinery, equipment, and resources to 	 Word walls, bulletin boards Demonstrate effective use of hand and 	Career Ready Practice CRP 1, 2, 5 Cluster Standards	Literacy RST.11-12.1,4 WHST.11-12.6 ELA
	 Plumbing? What are the common power tools used in the compliance with a compliance w	 accomplish project goals Implement tool use in compliance with all safety regulations 	power tools to complete a task or project	AC 1, 3 Pathway Standards	RI.11-12.4 Math
profession? regulation	regulations	WorkUnit Assessment	Industry Standards	Science	
Weeks 8-9 Plastic Pipe and Fittings	 When should plastic pipe be used in plumbing application? What are the different types of plastic pipes and fittings? How should you measure 	 Determine the appropriate type of plastic pipes and fittings for a given situation Discuss the inherent properties of ABS, PVC, CPVE, PE, PEX and PB piping 	 Accurately apply plumbing vocabulary to describe and complete tasks Given a specific project, distinguish the appropriate type 	Career Ready Practice CRP 2, 8 Cluster Standards AC 1, 2, 3	Literacy RST.11-12.1,4 WHST.11.12.2,4, 7,9 ELA SL.11-12.1,4
	 and cut plastic pipe? Do plumbing codes apply to plastic pipe use? How strong does a plastic pipe need to be? How can two sections of plastic pipe be joined? What are the advantages and disadvantages of using plastic pipe over metal (Copper, galvanized 	 Accurately measure and cut plastic pipe for a specific task Distinguish advantages and disadvantages of plastic vs metal pipes 	of pipe for the application • Apply appropriate math formulas for calculating measurements • Assigned projects • Unit Assessment	Pathway Standards AC-CST 3, 7, 8 Industry Standards	Math MG.A.3 Science

Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
Weeks 10-12 Copper Pipe and Fittings	 What properties of copper make it a suitable material for plumbing pipes and fittings? How are valves used in copper pipe systems? What method is used for cutting copper pipe? How is copper pipe joined? Why has the composition of solder changed over the 	 Discuss the inherent properties of copper pipe Demonstrate safe use of copper pipe in completing tasks Measure cut and join copper pipe in assigned projects Discuss the composition of solder as it relates to joining copper pipes 	 Discuss the inherent properties of copper pipe Demonstrate safe use of copper pipe in completing tasks Measure cut and join copper pipe in assigned projects Discuss the composition of solder as it relates to joining copper pipes Determine when to insulate copper piping in various settings/situations Use MSDS (Material Safety Data Sheets) information for the management, use and disposal of materials Field trip to plumbers union Accurate use of trade-related vocabulary Interpretation of selected products MSDS sheets Evaluation of assigned projects Unit Assessment 	Career Ready Practice CRP 2, 4, 8 Cluster Standards AC 1, 2, 3 Pathway Standards AC-CST 5, 9	Literacy RST.11-12.1,3,4,9 WHST.11.12.2 ELA SL.11-12.1,3 Math MG.A.3
	 How is insulation used with copper pipes? What codes apply to the use of copper pipes? 	 insulate copper piping in various settings/situations Use MSDS (Material Safety Data Sheets) information for the management, use and disposal of materials 		Industry Standards	Science
Weeks 13-14 Orientation to the Electrical Trade	 What are the career paths for electrical workers? What are the career specific requirements to become a qualified electrician? What is the IBEW? What sort of working 	 Explore career to develop an understanding of available employment opportunities Examine how the roles and responsibilities among the trades/professions work in conjunction to 	 Field visit to IBEW Panel Discussion with selected electricians on employment expectations Unit Assessment 	Career Ready Practice CRP 1, 4, 10 Cluster Standards AC 1, 7 Pathway Standards AC-CST 5	Literacy RST.11-12.7,9 WHST.11.12.2 ELA SL.11-12.1,3,4,6,7 Math
	environment do electricians typically work in?	 complete a project/job Discuss various work environments for electrical workers 		Industry Standards	Science
Weeks 15-17 Electrical Safety	 What are the specific safety considerations to be aware of before and during the installation of electrical systems at a construction site? Who determines safety standards for electricians? 	 Describe OSHA's role in electrical worker safety Discuss standard electrical precautions and hazards found at a job site Develop and apply a jobsite safety program to ensure safe practices and 	 Compliance with all safety precautions in assigned projects Interpret standard safety and hazard symbols related to electrical workers Unit Assessment 	Career Ready Practice CRP 1, 2, 4, 12 Cluster Standards AC-CST 5, 9	Literacy RST.11-12.1,3,4, 6,7,9 WHST.11.12.1,2, 4,6,7 ELA SL.11-12.1,4

Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
		procedures		Pathway Standards Industry Standards	Math Science
Weeks 18-20 Intro to Electrical Circuits	 What is Ohm's law? What is resistance? How is math used in electric power equations? What are series circuits? What is a branch circuit? What is a GFCI? Why is it important to know what the load on a circuit will be before you design and install the circuit? 	 Understand and apply Ohm's law concepts to assigned tasks Apply appropriate math formulas in solve electrical problems Identify different types of circuits in electrical applications Accurately calculate load in the design and installation of a circuit 	 Effective communication of information to solve an electrical problem Evaluation of assigned labs Unit Assessment 	Career Ready Practice CRP 2 Cluster Standards AC 1, 3, 6 Pathway Standards Industry Standards	Literacy RST.11-12.1,2,3,4 WHST.11.12.2,4,9 ELA SL.11-12.1,4 Math A-CED.A.4 Science
Weeks 21 & 22 Electrical Theory	 How is Ohm's law applied to the practice of installing electrical systems? What is voltage? What does NEC stand for? What are NEC tables and how do electricians use them? 	 Analyze the way electrical installations are impacted by Ohm's Law Discuss the rationale for the development and use of NEC codes Apply NEC codes using prescribed procedures 	 Guest lecturer from IBEW Evaluation of student work sheets, quizzes and homework assignments Project work Unit Assessment 	Career Ready Practice CRP 2, 4, 10 Cluster Standards AC 1, 2, 5, 7 Pathway Standards AC-CST 5	Literacy RST.11-12.1,3,4 WHST.11.12. 2,4, 6 ELA SL.11-12.1 Math CED.A.1 Science
Weeks 23 & 24 Electrical Project	 If there were a need for the installation of a residential electrical system, how would you approach meeting this need? 	 Employ critical thinking skills independently and in teams to solve problems and make decisions (e.g., analyze, synthesize and evaluate) 	 Communicate methods used in solving an electrical problem Students/teacher design rubric for 	Career Ready Practice CRP 2, 4, 6, 8	Literacy RST.11-12.3,4 WHST.11.12.2 ELA SL.11-12.1

Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
	 What considerations might be important in your decisions? 	 Identify building systems needed to complete a construction project Plan and implement selected electrical projects 	project assessment Teacher and peer evaluated projects 	Cluster Standards AC 1, 2, 3, 4, 6 Pathway Standards AC-CST 1, 2, 4, 8, 9 Industry Standards	Math GMD.B.4 Science
Weeks 25-28 Introduction to Building Envelope Systems	 What does "building envelope" mean? What factors are considered in improving a building's energy efficiency? How might you substantiate each of these factors – what is the rationale behind determining these factors? What sequence of steps should be taken to determine a building's energy efficiency? 	 Communicate the concepts of "building envelope verbally and in writing Apply the skills and concepts used in energy audits Describe audit process and results to consumers Apply principles of sealing, heat loss, and insulating materials to energy efficiency 	 Student shadows to weatherization companies Lab practice applying weatherization techniques to improve energy efficiency Unit Assessment 	Career Ready Practice CRP 2, 4, 8 Cluster Standards AC 1, 4 Pathway Standards AC-CST 3, 8 Industry Standards	Literacy RST.11-12.2,4 WHST.11.12.2 ELA SL.11-12.1 Math GMD.A.2,3 Science
Weeks 29-34 Your Role in the Green Environment	 What does the phrase "green environment" represent to you? What does sustainability mean? What are alternative energy sources? How are buildings rated in terms of "green"? What does LEED stand for? How does conservation and "building small" factor into the green 	 Discuss the benefits of renewable energy sources Describe standards for green building design and construction Discuss advantages /disadvantages of alternative energy sources Define LEED and cite the process for LEED certification 	 Group projects and presentations on alternative energy and sustainability Field trip to SUNY ESF Field trip to Architectural firm and green building contractors Lab projects Unit Assessment 	Career Ready Practice CRP 1, 2, 5, 8, 12 Cluster Standards AC 1, 3, 4, Pathway Standards AC-CST 1, 7 AC-DES 1, 3, 4, 8	Literacy RST.11-12.2,4 ELA SL.11-12.1,4 Math MG.A.3 Science

Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
	environment?			Industry Standards	
Weeks 35-40 Capstone project	 What sorts of organizational systems should you employ when starting a large project? 	 Select and employ appropriate reading and communication strategies to learn and use technical 	 Students/teacher design rubric for Capstone Project assessment. 	Career Ready Practice CRP 1, 2, 4, 8, 9, 11, 12	Literacy RST.11-12.1,2,4 ELA
	 How could you encourage effective team work in your group while completing your capstone project? In what ways you can 	 concepts and vocabulary in practice Employ critical thinking skills independently and in teams to solve problems 		Cluster Standards AC 1, 2, 3, 4, 5, 6	SL.11-12.1,4 Math MG.A.3
	convey your knowledge and learning of building construction beyond your project?	 and make decisions (e.g., analyze, synthesize and evaluate). Employ planning and time management skills and tools to enhance results and complete work tasks. 		Pathway Standards AC-CST 1, 2, 3, 4, 5, 6 AC-DES 1, 2, 3, 4, 6, 7 Industry Standards	Science

Syracuse City School District Career & Technical Education Programs Course Syllabus CNT 400: Construction Trades Technology 400



Construction Trades Program Overview:

At the completion of this program, students will understand and be able to apply the trade skills necessary for entry-level employment, apprenticeships and post-secondary education. Units of study include safety training, framing, roofing, door and window installation, hand and power tool use, concrete, masonry and bricklaying, blueprint reading, plumbing, electrical, and construction equipment and rigging. The program includes theory and authentic hands-on, project-based activities. Students will earn a math and ELA credit upon successful program completion. Students will also have the opportunity to earn the National Center for Construction Education and Research (NCCER) Construction Core and OSHA 10 certifications, recognized throughout the construction industry as indicators that the applicant is "job ready."

Course Description:

Construction 400 takes student knowledge and skills to greater depths by providing opportunities for additional project-based activities and work-based learning experiences. Students will practice work safety in all aspects of the construction trades while enhancing skills. Level 400 also integrates job readiness practices, including effective verbal and written communication, critical thinking and problem solving, resume, cover letter, job interview and follow up activities.

Course Objectives:

By the end of Construction 400 students will be able to:

- 1. Demonstrate practices and behaviors consistent with employer expectations.
- 2. Apply effective communication and relationship management skills with supervisors, peers and customers as necessary for sustained employment in the construction field.
- 3. Communicate with employers and worksite supervisors in the technical language of the profession.
- 4. Complete all project-based activities in compliance with local building codes and regulations.
- 5. Perform all work activities in compliance with OSHA safety regulations.
- 6. Understand how various construction-related career areas interconnect during the various phases of building projects.
- 7. Apply the concepts of building envelope systems and weatherization techniques.
- 8. Apply concepts of green building and alternative energy practices to construction projects.
- 9. Use math formulas for accurate measurements and performing estimates for construction projects.

Integrated Academics:

At the completion of Construction Trades 300, students will receive one integrated math credit

Equipment and Supplies:

School will provide: Tools and resources needed to complete all units and exams. **Student will provide**: A notebook for note taking; pen/pencils, attire suitable for construction work.

Textbook:

- NCCER Construction Technology Trainee Guide (Pearson/Prentice Hall) 3rd edition
- NCCER Your Role in the Green Environment (Pearson) 1st edition

Grading:

- Attendance/participation 10%
- Unit Classwork: 20%
- End of Unit Assessment: 20%
- Project Work: 30%
- Final Exam 20%

Academic Calendar:

Quarter	Units of Study
1	Careers in plumbing
	Plumbing theory, safety and practice
	Plumbing tools and materials
	Plumbing skills application
2	Careers in electrical trades
	Electrical trade theory, safety and practice
	Electrical tools and materials
	 Basic skills in wiring and electrical component installation
3	Careers in green building and building envelope system design
	 Components of efficient building envelope systems
	Calculating energy efficiency
	Introduction to Green building design
	Sustainable design practices
	LEED Certification
4	Introduction to basic equipment rigging
	Device design and constructions for gaining a mechanical advantage
	Materials handling and processing

Syracuse City School District Career and Technical Education Program Scope and Sequence CNT 400: Construction Trades Level 400



Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
Weeks 1-4 Classroom/Shop/ Internship	 What career opportunities can you expect in carpentry/construction? 	 Identify career opportunities and training levels for carpentry and construction workers 	 Group research on career opportunities Guest speakers on career areas, work environments, 	Career Ready Practice CRP1,2,7,9,10	Literacy RST.11-12.T2,4 WHS.11-12.T2,5
Expectations & Safety Review (including OSHA) Building Codes and	 How should you prepare for a career interview? How important is worker safety in construction 	Apply principles and methods in differential site leveling accurately operate equipment	 employer expectations and required education- interactive Differential leveling projects Use Monster.com to develop career interview questions Student scheduled career interview Typed interview reports for presentation to Construction 100 students 	Cluster Standards AC1,2,4,5,6,7	ELA R.11-12.4 W.11-12.2,6 SL.11-12.1,2
Review of Orientation to the Trade	 trades? What equipment and methods are used in differential leveling? 	Discuss responsibilities of surveyors, field engineers and carpenters in differential leveling		Pathway Standards AC-CST1,2,4,5,6,8,9	Math G-MG.1,3 G-GMD.4 G-GPE.5,6 G-CO.1,11,12
Site Layout- Differential Leveling				Industry Standards	Science
Weeks 5-6 Foundations and Slab-on-Grade	 How are safety, tools and forms different in this application? Where are these applications used? What safety and building code 	 Identify and describe tools and methods in foundation and slab-on-grade projects Distinguish appropriate type based on site layout Identify related codes and codes and 	 Rubric graded projects 	Career Ready Practice CRP1,3,4 Cluster Standards AC1,2,5,6 Pathway Standards	Literacy RST11.11-12.4 ELA R.11-12.4 SL.11-12.1,2 Math
	regulations should be considered	satety regulations in a construction project		Industry Standards	G-MG.2 G-CO.11 Science
Weeks 7-10 Resume and Cover Letter Development	 What kinds of information should be included in a résumé? What is the function of a 	 Identify appropriate responsibilities and personal characteristics by researching 	 Student developed resumes and cover letters for employment (Industry partner to provide 	Career Ready Practice CRP 1,2,4,7,8,9,10, 11	Literacy WHST.11-12.2

Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
Researching and Interpreting Job Postings Email Correspondence with an Industry Partner	 cover letter and what are its key elements? How should a professional email correspondence look? Can you apply what you've learned about construction drawings to a project? 	 workplace/jobsite information Identify the essential elements of the resume and cover letter Understand the job application Design and construct a project based on student 	feedback on student resumes and cover letters) Rubric Rated • Industry speakers • Completed shop projects	Cluster Standards AC1,5 Pathway Standards AC-CST1,6 AC-DES 2,5 AC-MO 2	ELA R.11-12.4 W.11-12.2,6 SL.11-12.1,2 Math G-CO.9,12,13 G-SRT.1 G-MG.3 N-Q.3
Applying Blueprints		developed drawings		Industry Standards	Science
Weeks 11-14 Communicating Technical Skills to Site Supervisors and Coworkers Floor Installation and Finishing Project Stair Layout Projects	 What does communication with site supervisors and coworkers sound like/look like? When should you ask for help at your internship or job? How will you decide which floor finish to use at a construction job? 	 Exchange verbal and written information using technical language Communicate with site supervisors and peers applying technical and career ready practice skills Select appropriate floor finishes in multi-room settings 	 Roleplays in effective verbal communication methods Writing assignments in employer communication- rubric graded Detailed estimates Shop projects 	Career Ready Practice CRP 1,2,4,7,9,10,11, 12 Cluster Standards AC1,5,6 Pathway Standards AC-CST1,5,9 AC-DES2,3,6 Industry Standards	Literacy RST11.11-12.4 WHST.11-12.2,3 ELA R.11-12.4 W.11-12.2,6 SL.11-12.1,2 Math G-MG.3 G-CO.1 Science
Weeks 18-20 Wall Systems and Application Projects	 What have you learned about wall framing, including window and door openings? How should the walls be supported? What information will you need before you complete your materials estimate? How do you keep the 	 Apply construction concepts to wall framing project Follow procedures for door and window openings Select and utilize materials, tools and methods for wall construction, including bracing and corner 	 Completed materials list Submission of materials estimate for wall project Completed group wall projects 	Career Ready Practice CRP 1,2,4,6,7,8,9, 10,11,12 Cluster Standards AC1.2.3.6 Pathway Standards AC-CST1,5,9 AC-DES2,3,6	Literacy RST.11-12.4 WHST.11-12.2 ELA R.11-12.4 W.11-12.2,6 SL.11-12.1,2 Math G-MG.3 G-GMD.4 G-GPE.6

Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
	walls square?	construction			G-CO.1
				Industry Standards	Science
Weeks 21-24 Drywall Installation and Finishing Job Readiness Practices	 What information is needed to install and finish drywall? Where is drywall used and how many different types of gypsum are used? Why are technical skills and soft skills (Career Ready Practices) both important in construction trades? 	 Identify and explain drywall types and uses, fasteners and installation methods Select materials/tools and finish installed drywall Cite examples for the 12 Career Ready Practices Apply effective communication skills with employers and peers 	 Accurately measure, cut, and install drywall Practice finish techniques Research job listings for class discussions Read, write and speak in the language of the profession 	Career Ready Practice CRP 1,2,4,5,7,9,10, 11 Cluster Standards AC1,2,3,6	Literacy RST11.11-12.4 WHST.11-12.2,3 ELA R.11-12.4 W.11-12.2,6 SL.11-12.1,2
				Pathway Standards AC-CST5,6,9 AC-DES2,3,6	Math G-MG.3 G-GMD.4 G-GPE.6 G-CO.1
				Industry Standards	Science
Weeks 25-27 Internships	 How does climate effect the type of roofing materials? How will you determine which methods and materials should be used for a specific job? How do you determine roof pitch? 	 Plan and construct a roof Use correct tools, materials and procedures for selected jobs 	 Pitch calculation Materials estimate Group project-roofing application 	Career Ready Practice CRP 1-12	Literacy RST.11-12.2,4 WHST.11-12.2,3
Completing Job Applications		Calculate correct pitch	аррисацоп	Cluster Standards AC1-5,7	ELA R.11-12.4 W.11-12.2,6
Applications Projects				Pathway Standards AC-CST4,5,9	Math G-CO.1,5 G-SRT.6,8 G-GPE.5,7 G-MG.1,3
Weeke 20.22				Industry Standards	Science
VVEEKS 28-30	 what questions should 	 Successfully participate in 	 Develop appropriate 	Career Ready	Literacy

Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
Mock Employment Interviews	you expect in a job interview? • How should you follow	a professional interviewAccept interview feedback and adjust	questions and participate in interview with advisory committee members	Practice CRP 1,2,3,4,5,6,7,8, 9,11,12	RST.11-12.2,4 WHST.11-12.2,3
Exterior Finishing Applications Internships	 up after a job interview? Why is the correct exterior finish an important part of a construction project? 	job interview? e correct hish an part of a on project? the local odes? ish an part of a communication, etc., as needed • Define and apply moisture barriers and insulation • Install a variety of sidings • Determine type and install flashing material • Compare and contrast	 Research and written summaries on siding applications Completed installation of exterior applications 	Cluster Standards AC1-5,7 Pathway Standards	ELA R.11-12.4 W.11-12.2,6 SL.11-12.1,2 Math
	What are the local building codes?			AC-CST4,5,9 AC-DES2,3,8 Industry Standards	G-MG.3 Science
		siding applications, including characteristics, advantages and disadvantages			
Weeks 31-32 Legal and Ethical Practices in the	 Can you predict what will occur as a result of illegal/unethical practices? 	 Research construction projects Select appropriate resources for project 	 Position paper arguing or defending a legal or ethical situation Article critique on current 	Career Ready Practice CRP 1-12	Literacy RST.11-12.2,4 WHST.11-12.2,3
Trades Final Project Research and	 How will the projects be selected and what should they include? How will they be 	 Meet timelines for project activities Develop proposal for independent student project 	 Iegal/ethical scenarios Submit first proposal draft Progress checks 	Cluster Standards AC1,2,5,7	ELA R.11-12.4 W.11-12.2,6 SL.11-12.1,2
Proposals Internships End	 Thow will they be graded? What resources will you need to complete an index or don't project and 			Pathway Standards AC-CST4,5,9 AC-DES1,9	Math
	presentation?			Industry Standards	Science
Week 33 Project Proposal Resubmissions	 What changes need to be made for resubmission? 	 Understand proposal feedback and edit as required Submit final proposals by 	 Final proposals for independent student projects 	Career Ready Practice CRP 1,2,3,4,5,6,8,9, 11,12	Literacy RST.11-12.2,4 WHST.11-12.2,3
		predetermined deadline		Cluster Standards AC1 Pathway Standards	ELA R.11-12.4 W.11-12.6 Math
				AC-CST4,9	math
Time Frame Unit of study	Key Questions	Key Learning Targets (Students will know and be able to)	Assessment Evidence of Learning	Related Standards	CCLS Literacy, Math, Science
--	--	--	---	--	--
				Industry Standards	Science
Weeks 34-38 Individual Student Project Work Finalize Portfolios	 What are the best resources for your independent project? What help will you need organizing and completing your project? 	 Plan, organize and develop independent projects Locate resources to support project work Organize portfolio documents for presentation to a professional panel 	 Project and portfolio progress checks 	Career Ready Practice CRP 1,2,4,5,6,7,8,9, 11 Cluster Standards AC1	Literacy RST.11-12.2,4 WHST.11-12.2,3 ELA R.11-12.4 W.11-12.6 Math
				Pathway Standards AC-CST4,9	Science
Weeks 39-40 Final Project Presentations to Professional Panel	 How can you develop an informative presentation? What key elements make up effective speeches? 	 Develop independent project presentations Present to a professional audience 	 Practice speeches Progress checks Present to peers and professional panel 	Career Ready Practice CRP 1,2,4,6,7,8,9,11	Literacy RST.11-12.2,4 WHST.11-12.2,3 ELA R.11-12.4 W.11-12.6
	• What do you need to know about your target audience and why is it			Cluster Standards AC1	Math
	important?			Pathway Standards AC-CST4,9	Science
				Industry Standards	

B. Teacher Certification

The self-study team reviews the teacher certification and training of the school or BOCES' instructional, paraprofessional, and support staff who deliver services within the CTE program seeking approval. New York State teacher certification review should include both CTE teachers and teachers of academic content within the proposed program.

Process

- Reviewers confirm that all CTE teachers hold appropriate New York State teacher certification for the program in which they will teach.
- Reviewers confirm that all teachers of academic content hold appropriate New York State teacher certification for the program in which they will teach.
- Reviewers confirm the appropriate NCLB highly-qualified status for the CTE teachers in programs offering academic credit.
- Reviewers confirm that staff delivering instruction in programs where certification, licensure, or registration by an external entity have acquired the necessary credentials.
- Reviewers confirm that professional development opportunities exist within the school district or BOCES for instructional, paraprofessional, and support staff to acquire and improve skills and knowledge related to instructional enhancement of the CTE program.

Documentation

Recommendations from the review of teacher certification should be included in the self-study report and reviewed by the external committee. A list of all teachers for the program and the New York State teacher certification(s) held by each must be attached to the Application for Career and Technical Education Program Approval.

Resources

New York State Office of Teaching Initiatives http://www.highered.nysed.gov/tcert/certificate/certprocess.htm

Source: http://www.p12.nysed.gov/cte/ctepolicy/guide.html



Certification Status

The instructor's NYSED teacher certification application has been submitted. CTE Programs will provide regular updates on this status.

Return to TOC

C. Technical Assessments Based on Industry Standards

The self-study team reviews the selection of a technical assessment for the program seeking approval. The selected technical assessment must be nationally-recognized and based on industry standards. It must be available to students enrolled in the approved program and must consist of three parts: written, student demonstration, and student project. Successful completion of the technical assessment is not a requirement for high school graduation, but is required for a student to earn a technical endorsement on the high school diploma

The New York State Education Department does not approve, endorse, or certify any technical assessment.

Process

- The school district or BOCES selects an appropriate industry standard technical assessment to measure student proficiency in the technical field for the program. The school district or BOCES may select a New York State licensing examination as the technical assessment.
- The school district or BOCES determines the scheduling and administration of technical assessments. It is not required that the technical assessment be administered at the conclusion of the program. Parts may be administered throughout a student's learning experience.
- The school district or BOCES determines the number of times a student may take a particular technical assessment.
- The school district or BOCES must comply with existing laws and regulations related to administration of technical assessments to students with disabling conditions and provide appropriate testing modifications. Restrictions on student eligibility for testing are the responsibility of the test producer.
- In the absence of an appropriate nationally-recognized industry standard based assessment, a consortium of local, regional, state, business and industry representatives may be formed to produce such an instrument.
 - Technical assessments must meet generally recognized psychometric criteria. Therefore, the consortium approach may be expensive because of the many steps required to insure assessment validity, reliability, and security.
 - An existing CTE advisory committee or craft committee is not a technical assessment consortium. The school district or BOCES must ensure that the assessment consortium adequately represents current business and industry standards for the specific career area for the program.
- Where an appropriate technical assessment exists, but consists of only one or two parts, a consortium must be formed to develop the missing part(s).
- The school district or BOCES must develop a system to collect student-level and program-level data on performance on the technical assessment.

Documentation

Recommendations on the technical assessment selection should be included in the self-study report and reviewed by the external committee.

Resources

New York State graduation requirements: http://www.emsc.nysed.gov/part100/pages/1005.html

Information on the Technical Endorsement: http://www.emsc.nysed.gov/cte/ctepolicy/endorsement.html

Source: http://www.p12.nysed.gov/cte/ctepolicy/guide.html



National Craft Assessment and Certification Program S P E C I F I C A T I O N S

CORE V2 ICS00_02 October 2013

Focus Statement

This assessment covers all of the competencies and objectives of NCCER's Core Curriculum: Introductory Craft Skills.

Overview

- Two-hour closed-book examination
- May use a basic function, non-printing calculator
- No extra papers, books, notes or study materials are allowed
- The minimum passing score is 75

Study Materials

All NCCER written assessments are referenced to NCCER's curriculum listed in the content. You may order modules from Pearson (800.922.0579) or from NCCER's Online Catalog at www.nccer.org

Assessment Development

Written Assessment Contents:

All questions are developed and approved by subject matter experts under the direction of NCCER and Prov[™], NCCER's testing partner.

Credentials

NCCER will send appropriate credentials to the assessment center for successful completions.

Training Prescription Reports

Each candidate will have access to individual results of the written assessment from Prov's website at www.provexam.com.

National Registry

Assessment results will be maintained in NCCER's National Registry and become a portable record of the candidate's training and assessment achievements.

Content Domain	Number of Questions
Safety [00101-09, 00109-09]	10
Math [00102-09]	7
Tools [00103-09, 00104-09]	9
Construction Drawings [00105-09]	4
Rigging [00106-09]	4
Critical Skills [00107-09, 00108-09]	
Total Number of Questions	



National Craft Assessment and Certification Program S P E C I F I C A T I O N S

Learning Objectives related to Assessment:

	Safety		
Registry	Module Title Objectives:		
ID			
Number:			
00101-09	Basic Safety		
	Explain the idea of a safety culture and its importance in the construction crafts.		
	Identify causes of accidents and the impact of accident costs.		
	Explain the role of OSHA in job-site safety.		
	Explain OSHA's General Duty Clause and 1926 CFR Subpart C.		
	Recognize hazard recognition and risk assessment techniques.		
	Explain fall protection, ladder, stair, and scaffold procedures and requirements.		
	Identify struck-by hazards and demonstrate safe working procedures and requirements.		
	Identify caught-in-between hazards and demonstrate safe working procedures and		
	requirements.		
	Define safe work procedures to use around electrical hazards.		
	Demonstrate the use and care of appropriate personal protective equipment (PPE).		
	Explain the importance of hazard communications (HazCom) and Material Data Safety Sheets (MSDSs).		
	(MISDSS).		
	environmental elements, welding and cutting hazards, confined spaces, and fires		
00109-09	Introduction to Materials Handling		
	Define a load.		
	Establish a pre-task plan prior to moving a load.		
	Choose appropriate materials-handling equipment for the task.		
	Recognize hazards and follow safety procedures required for materials handling.		
	Math		
Registry	Module Title Objectives:		
ID			
Number:			
00102-09	Introduction to Construction Math		
	Add, subtract, multiply, and divide whole numbers, with and without a calculator.		
	Use a standards ruler, a metric ruler, and a measuring tape to measure.		
	Add, subtract, multiply, and divide fractions.		
	Add, subtract, multiply, and divide decimals, with and without a calculator.		
	Convert decimals to percentages and percentages to decimals.		
	Convert fractions to decimals and decimals to fractions.		
	Explain what a metric system is and how it is important in the construction trade.		
	Recognize and use metric units of length, weight, volume, and temperature.		
	Recognize some of the basic shapes used in the construction industry and apply basic geometry		
	to measure them.		
	Tools		
Registry	Module Title Objectives:		

ID			
Number:			
00103-09	Introduction to Hand Tools		
	Recognize and identify some of the basic hand tools and their proper uses in the construction		
	trade.		
	Visually inspect hand tools to determine if they are safe to use.		
	Safely use hand tools.		
00104-09	Introduction to Power Tools		
	Identify power tools commonly used in the construction trades.		
	Use power tools safely.		
	Explain how to maintain power tools properly.		
	Construction Drawings		
Registry	Module Title Objectives:		
ID			
Number:			
00105-09	Introduction to Construction Drawings		
	Recognize and identify basic construction drawing terms, components, and symbols.		
	Relate information on construction drawings to actual locations on the print.		
	Recognize different classifications of construction drawings.		
	Interpret and use drawing dimensions.		
	Rigging		
Registry	Module Title Objectives:		
ID			
Number:			
00106-09	Basic Rigging		
	Identify and describe the use of slings and common rigging hardware.		
	Describe basic inspection techniques and rejection criteria used for slings and hardware.		
	Describe basic hitch configurations and their proper connections.		
	Describe basic load-handling safety practices.		
	Demonstrate proper use of American Society of Mechanical Engineers (ASME) hand signals.		
De sister :	Critical Skills		
Registry	wodule little Objectives:		
ID Number:			
00107-09	Basic Communication Skills		
00107 05	Interpret information and instructions presented in both verbal and written form		
	Communicate effectively in on-the-job situations using verbal and written skills		
	Communicate effectively on the job stations doing versal and written skins.		
00108-09	Basic Employability Skills		
	Explain the role of an employee in the construction industry.		
	Demonstrate critical thinking skills and the ability to solve problems using those skills		
	Demonstrate knowledge of computer systems and explain common uses for computers in the		
	construction industry.		
	Define effective relationship skills.		
	Recognize workplace issues such as sexual harassment, stress, and substance abuse.		



Job Ready Assessment Blueprint

Building Construction Occupations



General Assessment Information

General Assessment Information Written Assessment Information Specific Competencies Covered in the Test Sample Performance Job

Sample Written Items Performance Assessment Information

Test Type: The Building Construction Occupations industry-based credential is included in NOCTI's Job Ready assessment battery. Job Ready assessments measure technical skills at the occupational level and include items which gauge factual and theoretical knowledge. Job Ready assessments typically offer both a written and performance component and can be used at the secondary and post-secondary levels. Job Ready assessments can be delivered in an online or paper/pencil format.

Revision Team: The assessment content is based on input from secondary, post-secondary, and business/industry representatives from the states of Michigan, Montana, New York, Oklahoma, Pennsylvania, and Tennessee.



46.0415- Building Construction Technology





Career Cluster 2- Architecture

and Construction



47-2031.01-**Construction Carpenters**

The Association for Career and Technical Education (ACTE), the leading professional organization for career and technical educators, commends all students who participate in career and technical education programs and choose to validate their educational attainment through rigorous technical assessments. In taking this assessment you demonstrate to your school, your parents and guardians, your future employers and yourself that you understand the concepts and knowledge needed to succeed in the workplace. Good Luck!

The Pennsylvania Builder's Association utilizes this assessment to assist in determining competencies for granting skill certificates to students graduating from Pennsylvania secondary trade programs that have been endorsed by the Pennsylvania Builder's Association (PBA)



PBA's services include support to workforce training and education by linking industry employers with educators to grow the workforce of tomorrow. PBA serves Pennsylvania communities and consumers through its steadfast efforts to protect homeownership rights and advocate for affordable housing options. PBA is affilliated with the National Association of Home Builders.

NATIONAL COLLEGE CREDIT RECOMMENDATION SERVICE University of the State of New York - Regents Research Fund

In the lower division baccalaureate/associate degree category, 1 semester hour in Construction.

NOCTI Job Ready Assessment

Written Assessment

NOCTI written assessments consist of questions to measure an individual's factual theoretical knowledge.

Administration Time: 3 hours Number of Questions: 151 Number of Sessions: This assessment may be administered in one, two, or three sessions.



Specific Standards and Competencies Included in this Assessment

Safety and General Knowledge

- Recognize and adhere to worksite safety rules (housekeeping and health related)
- Utilize appropriate personal protective equipment (PPE)
- Demonstrate understanding of ladder and scaffold safety
- Recognize and adhere to governmental regulations (e.g., OSHA, SDS)
- Demonstrate safe and appropriate use of hand tools
- Demonstrate safe and appropriate use of power tools

Carpentry

- Identify carpentry materials
- Describe, lay out, and construct wood floor framing
- Calculate, lay out, and construct stairs
- · Identify, lay out, and construct wood wall framing
- Describe, calculate, and construct ceiling and roof framing
- Identify and install roofing materials (e.g., shingles, fasteners, flashings)
- Differentiate various styles of roofs
- · Identify, estimate, and install exterior windows and doors
- Identify, measure, calculate, and apply exterior finishes (e.g., sidings, trims)
- Describe and install interior finishes (e.g., drywall, doors, trims)

Masonry

- Identify, calculate quantities, and install footings and foundations
- Identify, calculate quantities, and install brick and block
- Identify, calculate quantities, and install various types of tile
- Identify, calculate quantities, place/pour, and finish concrete applications (e.g., sidewalks, steps)



Specific Standards and Competencies (continued)

Electrical

- Identify, estimate, and install rough electrical (including wire and cable)
- Identify, calculate quantities, and install finish electrical

Plumbing

- Identify, estimate, design, and install rough plumbing (e.g., PVC, ABS, copper, PEX)
- Identify, calculate quantities, and install finish plumbing fixtures

Energy Efficiency

- Identify, estimate, and install insulation and interpret R-values
- Recognize various ventilation applications
- Identify "green" construction technology (e.g., lighting, Energy Star®)

Blueprints, Building Layout, and Site Layout

- Recognize blueprint terms, symbols, and abbreviations
- Interpret blueprints and calculate quantities
- Demonstrate use of architect's scale
- Lay out buildings using various calculations, squaring, and leveling methods



Sample Questions

According to OSHA regulations, when working on a multilevel construction site, workers should wear _____ at all times.

- A. face shields
- B. hearing protection
- C. knee pads
- D. hard hats

To protect an outside drywall corner, it may be reinforced with a corner

- A. board
- B. lath
- C. bead
- D. rite

How many courses of concrete block are needed for a wall 8 feet high?

- A. 12
- B. 14
- C. 16
- D. 17

The allowable number of conductors within an electrical box is determined by the of the box.

A. volume

- B. area
- C. length
- D. depth

The purpose of a trap is to

- A. discharge sewer gas from the building
- B. prevent sewer gas from entering the building
- C. prevent excess pressure from building up in the system
- D. trap solid waste material

(Continued on the following page)

Sample Questions (continued)

A _____ is a pre-cut length of rolled fiberglass insulation.

- A. filler
- B. batt
- C. cricket
- D. standard

The height of the window header is found in the

- A. site section
- B. plot plan
- C. wall section
- D. mechanical plan

The leading cause of fatalities in the construction industry is

- A. falls
- B. lacerations
- C. electrical shock
- D. structure fires

What unit of measure is used for a heating device size, such as a furnace?

- A. BTU British thermal unit
- B. BHU British heat unit
- C. ATU American thermal unit
- D. AHU American heat unit

Roof trusses are typically spaced _____ on center.

- A.10 inches
- B. 15 inches
- C. 20 inches
- D. 24 inches

27%

23%

21%

10%

19%

Performance Assessment

NOCTI performance assessments allow individuals to demonstrate their acquired skills by completing actual jobs using the tools, materials, machines, and equipment related to the technical area.

Administration Time: 2 hours and 25 minutes Number of Jobs: 5

Areas Covered:

21% Solder Pipe

Participant will correctly cut, ream, clean, flux, and solder copper tubing into a complete, finished product.

19% Lay Out Rafter

Participant will position the rafter crown, create the correct rafter line length and overhang length, place and cut the bird's mouth correctly, and cut the tail plumb and ridge plumb correctly.

10% Calculate and Cut a Stud

Participant will cut the stud to the correct length and shape.

23% Rough and Finish Electrical

Participant will correctly set boxes, choose and install cables, pre-wire boxes, choose, wire, and install switch properly, split and wire the receptacle correctly.

27% 8-Inch Block Wall Construction

Participant will construct the block course correctly, with correct wall height, length and straightness, as well as a correct wall plumb and level and full, finished joints.



Building Construction Occupations

Sample Job

8-Inch Block Wall Construction

Maximum Time: 45 minutes

Participant Activity: The participant is to construct a block wall 47-5/8-inches long by 24-inches high, strike all joints using a convex jointer, and finish wall with a clean appearance.





SCSD CTE Student Portfolio

Definition: Student portfolios are a collection of personal documents, which showcase an individual's learning experiences, goals and achievements. Student portfolios are created and controlled by the student, facilitated by the instructor, and evaluated by outside entities.

Purpose: Students should be able to leave a program with as many tools in their toolbox as possible. Student portfolios are a way to assist students in marketing themselves in future interviews, by using the portfolio to illustrate his or her skills and/or talents.

Table of Contents:	This should list each section and piece of the portfolio in the order it appears
Cover letter	A cover letter introducing the student to a potential employer about a specific job in his or her chosen pathway. Should focus on why the student is the best candidate for the job. It should compliment the resume, not repeat it.
Resume	Should be professionally formatted. Usually a one-page document listing the student's name, personal information (address, phone, and email), an objective, work history or extracurricular/community involvement, education, certifications/credentials, personal skills/interests, and references.
Letters of Recommendation	Students must include at least two (2) reference letters, provided by people outside the school who are familiar with his or her work or character. The reference letters can be employment-related, personal, or they can attest to the character of the student.
Certifications/Credentials	Students should include copies of any credentials and/or certifications they have earned as a result of their program.
Transcript	Student provides a copy of his or her full academic transcript.
Employability Profile	Per NYSED: The work skills employability profile is intended to document student attainment of technical knowledge and work- related skills. Documents to validate skills reported on the profile could include, but are not limited to, an employer/teacher review of student work based on learning standards and expectations in the workplace, performance evaluations and observations. Students must have at least one employability profile completed within one year prior to school exit. If a student is involved in a number of work-based learning experiences and/or is employed part time, he/she may also have additional employability profiles as completed by others knowledgeable about his or her skills (e.g.,

SCSD CTE Student Portfolio Requirements

		employer and/or job coach).		
\square	College Research	A written research assignment focusing on three colleges offering		
		programs in the student's chosen career pathway.		
	Career Plan	Per NYSED: "Career Plans are an important mechanism to add		
		relevance and meaning to learning experiences across subject		
		areas. The career development model used to create the Career Plan		
		aligns with the CDOS standards." A Career Plan document can be found		
		here:		
		http://www.p12.nysed.gov/cte/careerplan/docs/SecondaryCommen		
		<u>cLvl.pdf</u>		
	Student Awards	This section is completely open ended. Students should use this		
		section to illustrate any awards, projects, exemplars, service learning,		
		or scholarships, they participated or earned during their high school		
		years. They can show evidence through pictures, project		
		documentation, news articles, program agendas, meeting minutes,		
		videos, etc.		
	Work Samples	Examples highlighting <i>only the student's best work</i> , demonstrating		
		the skills and competencies he or she has mastered. These should be		
		presented professionally and be clearly captioned. <i>Should not be</i>		
		thought as a scrapbook. Potential employers are only interested in		
		the very best examples.		

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D. Postsecondary Articulation

The self-study team reviews the postsecondary articulation agreement for the program seeking approval. Postsecondary articulation agreements help students prepare for the transition from high school to advanced study in a particular career area. Articulation agreements provide direct benefits to students such as dual credits, college credits, advanced standing, or reduced tuition at a postsecondary institution. Articulation agreements may include several school districts and/or BOCES and multiple postsecondary institutions. The school district or BOCES may enter into multiple articulation agreements for a program seeking approval.

Process

- Reviewers confirm that the postsecondary articulation agreement is designed to prepare students for the transition from high school study to postsecondary study in the career area of the program seeking approval.
- Reviewers confirm that a postsecondary articulation agreement has been obtained that offers direct benefits to students in the program seeking approval.
- Reviewers confirm that the postsecondary articulation agreement includes the
 - prerequisite skills, knowledge, or coursework required of students to participate in the agreement
 - roles and responsibilities of each institution
 - duration of the agreement
 - endorsement by officials of each institution
- Signed articulation agreements must be on file within the school district or BOCES.

Documentation

Documentation of the postsecondary articulation agreement is maintained by the school district or BOCES and updated whenever modifications are made. Recommendations on the technical assessment selection should be included in the self-study report and reviewed by the external committee. A copy of the signed postsecondary articulation agreement must be attached to the Application for Career and Technical Education Program Approval.

Source: http://www.p12.nysed.gov/cte/ctepolicy/guide.html



Residential Construction A.O.S. RESC 130 Light Framing (3 credits) Articulation Agreement Between SUNY Morrisville

And

William Nottingham High School Construction Trades Technology Program

STATE UNIVERSITY OF NEW YORK • COLLEGE OF AGRICULTURE AND TECHNOLOGY P.O. BOX 901 • MORRISVILLE, NEW YORK • 13408-0901 ADMISSIONS OFFICE PHONE: 315-684-6046 FAX: 315-684-6427

General Student Agreement

The following agreement has been developed to meet the needs of students who are pursuing educational programs in the secondary schools listed below and are continuing their education at SUNY Morrisville.

The purpose of this articulation agreement is to provide a continuing articulation program that builds on past learning experiences and eliminates the unnecessary duplication of instruction. Specific articulation provisions are listed with each course.

Specific Articulation Provisions

In order to receive RESC 130 credit at SUNY Morrisville, the responsible instructor (or designee) from William Nottingham High School agrees to:

- 1. Provide a letter of recommendation verifying the student's proficiency
- 2. Submit the student's transcripts and CTE Program Student Record if applicable.
- 3. Provide Morrisville State College with a copy of their curriculum outline in Construction Trades Technology upon initial agreement and renewal agreements.
- 4. To notify Morrisville State College in writing of any changes to the attached curriculum

SUNY Morrisville will grant credit whenever the student officially matriculates into the Residential Construction degree program and meets the following criteria:

- Students must have a cumulative average of a C or better in the William Nottingham High School Construction Trades Technology Program and must have obtained CTE endorsement.
- Students will be granted three (3) credits of RESC 130 upon earning 12 credits with a cumulative GPA of at least a 2.0.
- Students will be required to participate in an assessment test facilitated by SUNY Morrisville faculty in order to show mastery of RESC 130 course material.
- Upon acceptance at Morrisville State College, the student should contact his or her high school counseling department to facilitate the granting of credit.
- This agreement will be reviewed and renewed every five (5) years.
- This agreement will be in effect upon signing by both parties and may be revised upon mutual agreement of both parties.

ADMISSIONS OFFICE PHONE: 315-684-6046 FAX: 315-684-6427



Х Date:

Dr. Barry Spriggs Provost Morrisville State College

Construction_Tech_ 100_400.pdf

Х Date:

Dr. Christopher Nyberg Dean-School of Agriculture and Natural Resources Morrisville State College

Х Date:

Jaime Alicea Superintendent Syracuse City School District

Mulul d A Linda D. Mulvey - Chief Academic Officer 18

Date:

Note: The course outline can be viewed in the articulation drive with the electronic copy of this signed agreement

E. Work-based Learning

Work-based learning (WBL) is the "umbrella" term used to identify activities which collaboratively engage employers and schools in providing structured learning experiences for students. These experiences focus on assisting students to develop broad, transferable skills for postsecondary education and the workplace. A quality WBL experience can make school-based learning more relevant by providing students with the opportunity to apply knowledge and skills learned in the classroom to real world situations.

Time requirements that students in an approved program may devote to workbased learning experiences are set by administrators of the approved program. This time should be an outcome of the self-study report and external review phases of the approval process. Work-based learning experiences must be sufficient in length and rigor to contribute to student achievement of the State learning standards as well as specific technical competencies.

Process

- The school district/BOCES and the employer cooperatively plan all work experiences.
- The school district/BOCES set up a formal procedure for the supervision/coordination of all work-based learning experiences and must ensure that work-based learning coordinators are appropriately certified.
- The school district/BOCES provide work-based learning experiences for students with disabilities
- The school district/BOCES and employer must ensure compliance with federal and state labor laws, and the State Department of Labor regulations and guidelines.
- The school district/BOCES must explore and develop work-based learning experiences in settings that are relevant to the program.
- The school district/BOCES must comply with Commissioner's Regulations and Department policy where credit towards graduation is being awarded.

Documentation

Recommendations for work-based learning should be included in the self-study report and reviewed by the external committee.

Resources

New York State Education Department Work Experience Manual http://www.emsc.nysed.gov/cte/wbl/

Source: <u>http://www.p12.nysed.gov/cte/ctepolicy/guide.html</u>



SYRACUSE CITY SCHOOL DISTRICT Career and Technical Education



Internship Handbook

Preparing today's students for tomorrow's careers.



Syracuse City School District Career and Technical Education Internship

Introduction to Career & Technical Education Work Based Learning Introduction to Syracuse City School District CTE Internship

Career & Technical Education Program/Teacher Guidelines

- 1. Legal requirements of Internship Program
- 2. Career & Technical Education Program/Teacher Checklist

Employer Internship Partner Guidelines

- 1. Employer Safety Requirements
- 2. Expectations and responsibilities of the employer partner
- 3. Worksite/Employer Internship Partner Checklist

Student Intern Guidelines

- 1. Student Intern expectations and responsibilities
- 2. Student Internship Checklist

FORMS

NYSED Application for Employment Certificate (NYSED form attached) SCSD Certificate of insurance to cover student liability (sample attached) SCSD Memorandum of Agreement (Form #1) SCSD Internship Program Application (Form #2) SCSD Internship Ready to Work Assessment (Form #3) SCSD Internship Training Plan (Form #4) SCSD Notification of unpaid internship (Form #5) SCSD Internship Safety Certification (Form #6) SCSD Worksite Orientation (Form #7) SCSD Weekly Time Log/Record of Attendance (Form #8) SCSD Student Evaluation (Form #9) SCSD Mentor Program Evaluation (Form #10)

Forms are available on SCSD CTE website www.syracusecityschools.com/cte



Introduction

Syracuse City School District Career and Technical Education Work Based Learning

Learning in the workplace is not a new concept. Informal, on-the-job training is an integral part of all workforce development. Work based learning (WBL) provides structured learning experiences for students through exposure to a range of occupations. The Harvard University report, Pathways to Prosperity (February, 2011) suggested that "Work-linked learning should play an especially important role in the new American system of pathways to prosperity. There is mounting evidence that this would be an effective strategy for encouraging young adults to complete both high school and post-secondary degrees. Co-operative education is a tested model that provides students with extensive work experience that is monitored by the school."

Learning in the workplace is connected to and supports learning in the classroom. Work based learning also helps students achieve established academic standards. Properly developed and supported, work based learning provides a practical context for school subject matter and enhances the traditional classroom learning. Work based learning activities promote the development of broad, transferable skills and are a key element of a rigorous and relevant education for students. It enables students to acquire the attitudes, skills and knowledge needed to succeed in today's workplace.

Employer partners can develop and support work based learning experiences that promote the attainment of workplace knowledge and skills. In doing so, they can support academic achievement and personal growth by designing, structuring, supporting and connecting work based learning experiences. Work based learning also supports professional, technical, and work-readiness skills development. Quality work based learning should:

- Be designed to enhance the learning of skills and workplace knowledge in all aspects of the industry
- Be structured to be safe, legal and measurable
- Be developmentally appropriate
- Have identified learning objectives and assess student performance
- Develop career ready practices and provide opportunities for reflection
- Be supported and documented by appropriate planning and training; and
- Comply with State and Federal labor laws

Syracuse City School District Career and Technical Education Internship

A Career and Technical Education Internship provides an important link between the classroom and the workplace for students age 16 and older. It is a structured, timelimited, career preparation activity in which students are assigned to a workplace for a defined period of time to participate in and observe firsthand within a given industry. The internship enhances and adds relevance to classroom learning. The internship may provide the opportunity to work in teams, rotate through a number of departments and job functions, or work on a project of interest to the student. It is essentially a partnership that links school, community, and business/industry to provide a real-world environment in which students are given the opportunity to apply, and thereby enhance, the knowledge and skills obtained in the classroom. The internship is related to the student's CTE program of study, with the primary goals of promoting:

- The exploration of and experience in a field of interest
- Exposure to a wide range of careers and jobs within an industry
- Opportunities to develop, practice and demonstrate new skills
- The acquisition of occupational knowledge and awareness of the skills and education needed to be successful in the industry



Career & Technical Program/ Teacher Guidelines

Legal Requirements of SCSD CTE Internship Program

All Career and Technical Education Internship Programs have the common objective of providing opportunities for students to develop and demonstrate job skills at a supervised worksite. They are supported by training plans developed cooperatively by the employer, instructor, and student. There should be ongoing communication between the job mentors and the CTE teacher or work based learning coordinator concerning students' performance and needs.

Each internship program needs to have the following:

- New York State Education Department (NYSED) approval of the CTE program
- The employer understands that the student placement is governed by NYSED, New York State Workers' Compensation Board (NYSWCB), New York State Department of Labor (NYSDOL), and United States Department of Labor (USDOL) labor laws and regulations
- Employer is provided a Certificate of Insurance from school where school liability insurance protects the employer from any damage student may do in the workplace
- Students are given written notification that this program is unpaid and they are not due any wages per NYSDOL regulations
- Per NYS, students are required to receive coverage under the employer's Workers' Compensation Insurance if student is interning for a for-profit company. If student is interning at a non-profit entity, the student is required to be covered by the employer's visitors or volunteer insurance.
- Worksite must be in compliance with Occupational Safety and Health Administration (OSHA) regulations. Health and safety instruction/training appropriate for the job is provided by the SCSD and employer specific training is provided by the employer on the worksite.

- Memorandum of Agreement is in effect between the cooperating business and the education agency and outlines the responsibilities of the student, employer, parent/guardian, and school/coordinator, all of whom must sign to confirm their support of the agreement.
- Students complete an Internship Application indicating their understanding of, and agreement to, all rules and regulations of the program.
- Students receive instruction embedded within their CTE curriculum relating to the technical and career ready practices.
- An Internship Training Plan (ITP) is developed and used for each participating student. The plan identifies the general and specific job tasks the student will perform on the job, the desired learning outcomes of the experience, and the time frame the student will spend at each task. The training plan should be designed to ensure that the student will have a progressive learning experience.
- All participating students are meeting, or have met, academic requirements of their CTE programs and academic subjects. No students on academic probation will participate in the internship.
- Employment Certificate (Working Papers) for students provide verification that a student under age 18 is eligible for employment. The student, employer, and school must complete the form. Employment certificates are obtained at the high school – typically the main office, health office, or guidance office.
- Time Log/Record of Attendance provides an official record of the weekly and cumulative hours the student has worked during the experience. It must be maintained for each student.
- An intern evaluation will be done by the CTE teacher before the internship, at the midpoint of the internship and at the end of the internship. This same form will be completed by the on-site supervisor in the midpoint and at the end of the internship.



SCSD CTE Internship Program Checklist (To be completed by CTE teacher or WBL coordinator)

- □ NYSED has approved the CTE program
- The employer understands that the student placement is governed by NYSED, NYSWCB, NYSDOL, and USDOL labor laws and regulations
- NYSED Application for Employment certificate (working papers, usually available in school counseling office) has been verified (NYSED form attached)
- □ Employer is provided with a Certificate of Insurance from school to cover liability (sample attached)
- □ A written Memorandum of Agreement is in effect between the cooperating business and the education agency (Form #1)
- □ Students complete an Internship Application indicating their understanding of, and adherence to all rules and regulations set forth by the program. (Form #2)
- Students receive instruction embedded within their CTE curriculum relating to the technical and Career Ready Practices.
 The CTE teacher and the student have completed the SCSD CTE Internship Ready to Work Assessment (Form #3)
- An Internship Training Plan (ITP) is developed and used for each participating student (Form #4)
- Students are given written notification that this program will be unpaid and they are not due any wages per NYS DOL regulations (Form #5)
- □ All SCSD internship candidates have received appropriate safety certification for the industry provided by the school before internship and employer specific training and orientation is provided by the employer on the worksite (Form #6 & Form #7)
- □ All participating students are meeting, or have met, academic requirements of their CTE programs and academic subjects
- Review Time Log/Record of Attendance which serves as an official record of the hours the student has worked during the experience (Form #8)

REQUIRED FORMS

NYSED Application for Employment Certificate

Certificate of Insurance

SCSD Memorandum of Agreement (Form #1)

SCSD Internship Program Application (Form #2)

SCSD Internship Ready to Work Assessment (Form #3)

SCSD Internship Training Plan (Form #4)

SCSD Notification of unpaid internship (Form #5)

SCSD Internship Safety Certification (Form #6)

SCSD Worksite Orientation (Form #7)

Date

SCSD Weekly Time Log/Record of Attendance (Form #8)

Forms are available online at the SCSD CTE website : www.syracusecityschools.com/cte

CTE Teacher/WBL Coordinator



Syracuse City School District CTE Internship Handbook

Employer Internship Partner Guidelines

SCSD CTE Internship Employer Requirements

Safety

At all times, both school personnel and the employment site personnel must take appropriate steps to ensure that safe practices are stressed and followed. However, it is impossible to guarantee that no injuries resulting in medical expenses and liability will occur. The following prudent steps are encouraged:

- 1. In-school course content must include training related to safety at the worksite. Appropriate safety certification should be offered if possible. SCSD internship candidates will have received appropriate safety training before beginning their internship.
- 2. Any sites used for SCSD CTE internships will be reviewed by school personnel prior to placing a student at the worksite.
- 3. Employers must provide safety training information to interns as they would a new employee. Safety training must be provided if the employer engaged in a particularly hazardous occupation for minors as defined by the USDOL.
- 4. Provisions for student safety must be included as part of the training agreement signed by the employer, student, parent, and school representative.

Types of Liability Insurance and Risk Management

Workers' Compensation and Employer Liability Insurance

All employers will have a policy that provides coverage for the Workers' Compensation statutory benefits as well as liability coverage for certain employment-related situations. Verification of employer's Workers Compensation insurance will be included in the Memorandum of Agreement. The SCSD will also have insurance that covers the student participating in a school-related internship experience.



SCSD CTE Internship Expectations & Responsibilities of Employer

Before

- Determine projects or activities that would be appropriate for your student intern
- Communicate with staff that an intern will be at the workplace and identify mentors
- Designate one employee, the on-site supervisor, to work with coordinator/teacher to develop and define successful student objectives and experiences and record on the student Internship Training Plan

During

- Provide student with a Work Site Orientation to organization and any required training
- Train student intern for your work site, including all work site safety training
- Maintain a quality, safe and legal learning experience; provide effective supervision
- Use the Internship Training Plan as a guide for the internship; hold intern to employee standards/ expectations; oversee, direct, and provide adequate tasking to maximize learning
- Meet with coordinator/teacher and student to decide on an ongoing communications strategy
- Evaluate intern work and provide constructive criticism
- Assist student in working toward learning outcomes
- Coordinate student schedule, approve weekly timesheets
- Communicate successes and opportunities at the workplace that the teacher can use to enhance the value of classroom connections
- Complete a student evaluation midway through internship and discuss with student

After

- Complete a final evaluation of the student
- Hold debriefing session and review performance with the student and teacher
- Complete a Program Evaluation





SCSD CTE Internship Employer Internship Partner Checklist (To be completed by On-Site Supervisor/Mentor)

- Meet with coordinator/teacher and student to agree on ongoing communication strategy (e-mail, text, telephone, etc.)
- □ A written Memorandum of Agreement is in effect between the cooperating business and the education agency (Form #1)
- Work with coordinator/teacher to develop and define successful student objectives and experiences and record on the student Internship Training Plan (Form #4)
- □ Coordinate student schedule, approve weekly time log/record of attendance (Form #8)
- □ Communicate with staff that an intern will be at the workplace and identify on-site supervisor and/or mentor
 - On-Site Supervisor _____
 - Mentor Name
- Provide student with Work Site Orientation to organization and any required training (Form #7)
- Create and maintain a quality, safe and legal learning experience
- □ Hold intern to employee standards/expectation; provide student support and candid feedback
- □ Communicate successes and opportunities at the workplace that the teacher can use to enhance the value of classroom connections
- Complete an interim SCSD CTE Internship Ready to Work Assessment of student performance and discuss with student (Form #3)
- □ Provide effective supervision
- Complete a final assessment of the student (Ready to Work Assessment, Form #3 and Student Training Plan, Form #4)
- □ Complete a program evaluation (Form #10)

REQUIRED FORMS

SCSD Memorandum of Agreement (Form #1)

SCSD Internship Ready to Work Assessment (Form #3)

SCSD Internship Training Plan (Form #4)

SCSD Worksite Orientation (Form #7)

SCSD Weekly Time Log/Record of Attendance (Form #8)

SCSD Mentor Program Evaluation (Form #10)

Forms are available online at the SCSD CTE website : www.syracusecityschools.com/cte





Student Intern Guidelines

Expectations and Responsibilities of Students

Before

- Obtain working papers (if under 18)
- Return Internship Application and all permission slips with appropriate signatures
- Meet with your teacher/coordinator and worksite supervisor to finalize an Internship Training Plan

During

- Attend Orientation at the worksite
- Observe all workplace rules and regulations particularly those applicable to safety and security concerns
- Perform all duties, jobs and assigned tasks; treat internship like a real job
- Maintain regular work schedule and notify supervisor in advance of any vacation/appointments
- Track you hours as instructed on Weekly Timesheet
- Develop skill specific learning outcomes with your worksite supervisor
- Participate in ongoing reflection journal activities and skill building classroom assignments
- Communicate with your teacher/coordinator and worksite supervisor if issues arise
- Keep copies of all necessary paperwork (work journal, training plan, Weekly Time Log/Record of Attendance, and evaluations)

After

- Participate in self-evaluation and reflection activities
- Update your resume based upon new skills and experiences gained
- Send thank you note to employer





SCSD CTE Internship Student Checklist (To be completed by student)

- Obtain NYSED Application for Employment Certificate (usually available in school counseling office, application attached)
- A written Memorandum of Agreement is in effect between the cooperating business, the education agency, and signed by student and parents (Form #1)
- □ Return Internship Application (Form #2) and all permission slips with appropriate signatures
- Develop skill specific learning outcomes with your worksite supervisor
- Meet with your teacher/coordinator and worksite supervisor to finalize an Internship Training Plan for the internship (Form #4)
- □ Attend orientation at the worksite (Form #7)
- Observe all workplace rules and regulations particularly those applicable to safety and security concerns
- Perform all duties, jobs and assigned tasks; treat internship like a real job
- □ Maintain regular work schedule and notify supervisor in advance of any vacation/appointments
- Track you hours as instructed on time log/record of attendance (Form #8)
- Participate in ongoing reflection activities and skill building classroom assignments
- Communicate with your teacher/coordinator and worksite supervisor, if issues arise and keep copies of all necessary paperwork (work journal, training plan, Weekly Time Log/Record of Attendance, and evaluations)
- Participate in self-evaluation and reflection activities (Forms #3 & #9)
- □ Update your resume based on new skills and experiences gained
- □ Send thank you note to employer

REQUIRED FORMS

SCSD Memorandum of Agreement (Form #1)

SCSD Internship Program Application (Form #2)

SCSD Internship Ready to Work Assessment (Form #3)

SCSD Internship Training Plan (Form #4)

SCSD Worksite Orientation (Form #7)

SCSD Weekly Time Log/Record of Attendance (Form #8)

SCSD Student Evaluation (Form #9)

Forms are available online at the SCSD CTE website : www.syracusecityschools.com/cte





Date

Syracuse City School District CTE Internship Handbook

SCSD CTE Internship Forms

NYSED Application for Employment Certificate		
SCSD Certifi	cate of Insurance to Cover Student Liability (Sample)	
Form #1	SCSD Memorandum of Agreement	
Form #2	SCSD Internship Program Application	
Form #3	SCSD Internship Ready to Work Assessment	
Form #4	SCSD Internship Training Plan	
Form #5	SCSD Notification of unpaid internship	
Form #6	SCSD Internship Safety Certification	
Form #7	SCSD Worksite Orientation	
Form #8	SCSD Weekly Time Log/Record of Attendance	
Form #9	SCSD Student Evaluation	
Form #10	SCSD Mentor Program Evaluation	
Forms are available on SCSD CTE website at www.syracusecityschools.com/cte		



THE UNIVERSITY OF THE STATE OF NEW YORK THE STATE EDUCATION DEPARTMENT ALBANY, NY 12234

APPLICATION FOR EMPLOYMENT CERTIFICATE

See reverse side of this form for information concerning employment of minors.

All signatures must be handwritten in ink, and applicant must appear in person before the certifying official.

PART I - Parental Consent - (To be completed by applicant and parent or guardian)

Parent or guardian must appear at the school or issuing center to sign the application for the first certificate for full-time employment, unless the minor is a graduate of a four-year high school and presents evidence thereof. For all other certificates, the parent or guardian must sign the application, but need not appear in person to do so.

I,		Age		
	[Applicant]	ç		
Home Address	[Full Home Ad	dress including Zip Code]	, apply for a	certificate as checked below
	Nonfactory Employment Cert attendance is not requir	fificate – Valid for lawful em red.	ployment of a minor 14 or	15 years of age enrolled in day school when
	Student General Employment Certificate – Valid for lawful employment of a minor 16 or 17 years of age enrolled in day school when attendance is not required.			
	□ Full-Time Employment Certificate – Valid for lawful employment of a minor 16 or 17 years of age who is not attending day school.			
I hereby conser	nt to the required examination	and employment certification	n as indicated above.	
				[Signature of Parent or Guardian]
PART II – E	vidence of Age – (To be con	npleted by issuing official o	nly)	
	– Chec [Date of Birth]	k evidence of age accepted -	Document # (if any)	
Birth Certificat	e State Issued Photo	I.D Driver's License	Schooling Record	Other[Specify]

PART III - Certificate of Physical Fitness

Applicant shall present documentation of physical exam from a school or private physician, physician's assistant or nurse practitioner licensed to practice within New York State. Said examination must have been given within 12 months prior to issuance of the employment certificate. Date of physical exam on file with school If physical exam is over 12 months, provide student with certificate of physical fitness to be completed by school medical director or private health care provider. If the physical exam or Certificate of Physical Fitness is limited with regards to allowed work/activity, the issuing official shall issue a Limited Employment Certificate (valid for a period not to exceed 6 months unless the limitation noted by the physician is permanent, then the certificate will remain valid until the minor changes jobs. Enter the limitation on the employment certificate. THE PHYSICIAN'S CERTIFICATION SHOULD BE RETURNED TO THE APPLICANT.

PART IV - Pledge of Employment - (To be completed by prospective employer)

Part IV must be completed only for: (a) a minor with a medical limitation; and (b) for a minor 16 years of age or legally able to withdraw from school, according to Section 3205 of the Education Law, and must show proof of having a job.

The undersigned will employ		resid	ling at	
6 1 7	[Applicant]		5	
as	at			
[Description of Ap]	plicant's Work]		[Job Location]	
for days per week	hours per day,	beginning	a.m	p.m.
[Name of Firm]	Factory	ending	a.m	p.m.
	Nonfactory		[Address of	Firm]
	Starting date			
[Telephone Number]	0			[Signature of Employer]

PART V – Schooling Record – (To be completed by school official)

Part V must be completed only for a minor 16 years of age who is leaving school and resides in a district (New York City and Buffalo) which require a minor 16 years of age to attend school, according to Section 3205 of the Education Law.

reentry that the record	[Name of School]	[Address]
Show that		whose date of birth is
	[Name of Applicant]	
Is in grade		
U U		[Signature of Principal or Designee]

PART VI – Employment Certification – (To be completed by issuing official only)

Certificate Number

THIS APPLICATION DOES NOT AUTHORIZE EMPLOYMENT

[School or Issuing Center]

[Signature of Issuing Officer]

GENERAL INFORMATION

An employment Certificate (Student Nonfactory, Student General, or Full Time) may be used for an unlimited number of successive job placements in lawful employment permitted by the particular type of certificate.

A Nonfactory Employment Certificate is valid for 2 years from the date of issuance or until the student turns 16 years old, with the exception of a Limited Employment Certificate. A Limited Employment Certificate is valid for a maximum of 6 months unless the limitation noted by the physician is permanent, then the certificate will remain valid until the minor changes job. It may be accepted only by the employer indicated on the certificate.

A new Certificate of Physical Fitness is required when applying for a different type of employment certificate, if more than 12 months have elapsed since the previous physical for employment.

An employer shall retain the certificate on file for the duration of the minor's employment. Upon termination of employment, or expiration of the employment certificate's period of validity, the certificate shall be returned to the minor. A certificate may be revoked by school district authorities for cause.

A minor employed as a Newspaper Carrier, Street Trades Worker, Farmworker, or Child Model, must obtain the Special Occupational Permit required.

A minor 14 years of age and over may be employed as a caddy, babysitter, or in casual employment consisting of yard work and household chores when not required to attend school. Employment certification for such employment is not mandatory.

An employer of a minor in an occupation which does not require employment certification should request a Certificate of Age.

PROHIBITED EMPLOYMENT

Minors 14 and 15 years may not be employed in, or in connection with a factory (except in delivery and clerical employment in an enclosed office thereof), or in certain hazardous occupations such as: construction work; helper on a motor vehicle; operation of washing, grinding, cutting, slicing, pressing or mixing machinery in any establishment; painting or exterior cleaning in connection with the maintenance of a building or structure; and others listed in Section 133 of the New York State Labor Law.

Minors 16 and 17 years of age may not be employed in certain hazardous occupations such as: construction worker; helper on a motor vehicle, the operation of various kinds of power-driver machinery; and others listed in Section 133 of the New York State Labor Law.

HOURS OF EMPLOYMENT

Minors may not be employed during the hours they are required to attend school.

Minors 14 and 15 years of age may not be employed in any occupation (except farmwork and delivering, or selling and delivering newspapers):

When school is in session:

- more than 3 hours on any school day, more than 8 hours on a nonschool day, more than 6 days in any week, for a maximum of 18 hours per week, or a maximum of 23 hours per week if enrolled in a supervised work study program approved by the Commissioner.
- after 7 p.m. or before 7 a.m.

When school is not in session:

- more than 8 hours on any day, 6 days in any week, for a maximum of 40 hours per week.
- after 9 p.m. or before 7 a.m.

This certificate is not valid for work associated with newspaper carrier, agriculture or modeling.

Minors 16 and 17 years of age may not be employed: --

When school is in session:

- more than 4 hours on days preceding school days; more than 8 hours on days not preceding school days (Friday, Saturday, Sunday and holidays), 6 days in any week, for a maximum of 28 hours per week.
- between 10 p.m. and 12 midnight <u>on days followed by a school day</u> without written consent of parent of guardian <u>and</u> a certificate of satisfactory academic standing from the minor's school (to be validated at the end of each marking period).
 between 10 p.m. and 12 midnight <u>on days not followed by a school day</u> without written consent of parent or guardian.

When school is not in session:

— more than 8 hours on any day, 6 days in any week, for a maximum of 48 hours per week.

EDUCATION LAW, SECTION 3233

"Any person who knowingly makes a false statement in or in relation to any application made for an employment certificate or permit as to any matter by this chapter to appear in any affidavit, record, transcript, certificate or permit therein provided for, is guilty of a misdemeanor."
	/									-		
A	Ć	ORD®	CER	ΓIF	IC	ATE OF LIA	BIL	ITY IN	SURA	NCE	DATE	(MM/DD/YYYY)
	HIS ERT ELO EPR	CERTIFICATE IS IFICATE DOES I W. THIS CERT RESENTATIVE OR RTANT: If the ce	ISSUED AS A NOT AFFIRMAT IFICATE OF INS PRODUCER, A rtificate holder is	MAT IVEL SURA ND T		OF INFORMATION ONL' R NEGATIVELY AMEND, DOES NOT CONSTITU ERTIFICATE HOLDER.	Y AND EXTE TE A (CONFERS N ND OR ALT CONTRACT	NO RIGHTS ER THE CO BETWEEN	UPON THE CERTIFICA VERAGE AFFORDED THE ISSUING INSUREI	ATE HO BY TH R(S), A	LDER. THIS E POLICIES UTHORIZED
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PRC	DUCE	ER					CONTA	CT				
							PHONE (A/C N	o Fxt)		FAX (A/C. No):	
							É-MAIL	SS:			/	
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							INSURI	ER A :				
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INSR LTR		TYPE OF INSU	JRANCE	ADDL	SUBR WVD	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIM	ITS	
А	GE	NERAL LIABILITY								EACH OCCURRENCE	\$	
		COMMERCIAL GENE	RAL LIABILITY							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	
		CLAIMS-MADE	OCCUR							MED EXP (Any one person)	\$	
		500,000 Retained								PERSONAL & ADV INJURY	\$	
										GENERAL AGGREGATE	\$	
	GE	N'L AGGREGATE LIMIT	APPLIES PER:							PRODUCTS - COMP/OP AGG	\$	
		POLICY PRO- JECT	LOC								\$	
	AU									COMBINED SINGLE LIMIT (Ea accident)	\$	
		ANY AUTO								BODILY INJURY (Per person)	\$	
		ALL OWNED AUTOS	SCHEDULED AUTOS							BODILY INJURY (Per accident	t) \$	
		HIRED AUTOS	NON-OWNED AUTOS							PROPERTY DAMAGE (Per accident)	\$	
											\$	
		UMBRELLA LIAB	OCCUR							EACH OCCURRENCE	\$	
		EXCESS LIAB	CLAIMS-MADE							AGGREGATE	\$	
		DED RETENT	ION \$								\$	
	ANI	RKERS COMPENSATIO	DN ITY X (N							WC STATU- OTH TORY LIMITS ER	-	
	AN			N/A						E.L. EACH ACCIDENT	\$	
	(Ma	indatory in NH)								E.L. DISEASE - EA EMPLOYE	E \$	
	DES	SCRIPTION OF OPERA	TIONS below							E.L. DISEASE - POLICY LIMIT	- \$	
DES	CRIPT	TION OF OPERATIONS	/ LOCATIONS / VEHIC	LES (Attach	ACORD 101, Additional Remarks	Schedule	, if more space is	s required)	1		
CE	RTIF	ICATE HOLDER					CAN	CELLATION				
							SHC THE ACC	OULD ANY OF EXPIRATION CORDANCE W	THE ABOVE D N DATE TH ITH THE POLIC	DESCRIBED POLICIES BE EREOF, NOTICE WILL CY PROVISIONS.	CANCEL BE DE	LED BEFORE ELIVERED IN
							AUTHO	RIZED REPRESE	NTATIVE			

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Memorandum of Agreement

(Form #1)

Type of Work Based Learning Experience: Non-Paid Internship

(Parent/Guardian), and his/her Work Experience Employer, _______ (Employer), on the date indicated below, whereby the Student will participate in a CTE Internship (Program at the Employer's place of business located at _______, on ______, during the hours of

THE STUDENT UNDERSTANDS THAT HIS/HER CONDUCT IS A REFLECTION UPON THE SCHOOL NAME AND AGREES THAT HE/SHE WILL:

- 1. Provide his/her own transportation to and from the Employer's place of business (the SCHOOL, the Student's home school, the SCHOOL and the Employer are in no way responsible for providing the Student with transportation to and/or from the Employer's place of business at any time or for any incidents or accidents which may occur while the Student is on route to or from the Employer's place of business)
- 2. Demonstrate a conscientious attitude and be honest, punctual, cooperative, courteous and willing to learn while at the Employer's place of business.
- 3. Keep regular attendance as agreed upon with the Employer, excluding Employer-observed holidays, days on which the Employer's place of business is closed or other legal absences and understands that his/her attendance will be taken from his/her weekly attendance reports.
- 4. Keep regular attendance at his/her home school.
- 5. Give the Employer as much advance notice as possible if unable to report for work or to do so in a timely manner and contact the CTE teacher at (315) ______.
- 6. Report to SCHOOL if the Internship location is closed for any reason during at time in which the student is scheduled to be at the Internship location and SCHOOL is in session.
- 7. Complete weekly time log/record of attendance (Form # 8) reports as required by SCHOOL.
- 8. Engage in only those work based learning experiences approved by the supervisor at the work-site.

THE EMPLOYER AGREES THAT IT WILL:

- 1. Not permit the Student to replace any paid employee (in the case of an Internship).
- 2. Advise the Student of all company rules, regulations and policies which relate to the Student.
- 3. Explain to the Student the responsibilities and duties of his/her internship and shall correlate on-the-job training with safety instructions given by the SCHOOL.
- 4. The work of the Student in occupations declared particularly hazardous by the U.S. Department of Labor shall be (i) incidental to the Student's training; (ii) intermittent and for short periods of time; and (iii) under the direct and close supervision of a qualified and experienced person.
- 5. Provide direct supervision by an authorized employee to the Student as needed.
- 6. Complete an accident report form and return to SCHOOL in the event of an accident.
- 7. Review the Student's performance with him/her on a weekly basis and sign a weekly time sheet, complete an evaluation of the Student on forms provided by the SCHOOL.
- 8. Inform the SCHOOL Instructor/Coordinator when the Student is absent or not performing adequately by calling (315)________.



9. Observe any and all laws that may relate to the Student's work experience.

THE SCHOOL AGREES THAT IT WILL:

- 1. Carry the insurance listed for students during class activities including internships, job experiences and work placement.
- 2. Accident Insurance: SCHOOL carries tertiary accident insurance to cover medical expenses as a result of an accident. The parent's health insurance is primary and the home school district would be secondary. General Liability Insurance: SCHOOL carries general liability insurance to cover up to one million dollars for a single event. As added protection, a ten million dollar umbrella policy is also in effect.
- 3. Assist the Student in securing internship placement regardless of his/her sex, race, color, national origin or disability (all inquiries and/or complaints regarding discrimination should be directed to the compliance officer, Patty Clark, SCSD Central Office, 725 Harrison Street, Syracuse, New York 13210. Telephone: (315) 435-4131.
- 4. Provide the STUDENT with safety instructions correlated by the EMPLOYER with on-the-job training.
- 5. Review with the Student and the Employer their respective responsibilities and obligations while participating in the Program.

The parties/signatories hereby agree that good communication and understanding between them is vital if the objectives of this Program are to be met and that joint conferences between the Student, Employer, Parent/Guardian, Instructor, and others may be scheduled from time to time in order to discuss:

- 1. the student's progress
- 2. any misunderstandings
- 3. the reason for termination of the Agreement

This Agreement is not in effect until signed by all parties. This Agreement may be terminated at any time by any party upon written notice to the other parties.

We the undersigned, have reviewed and agreed to the terms and conditions set forth herein.

Date .	/	/	Student
Date .	/	/	Parent/ Guardian
Date .	/	/	Daytime Phone
			Evening Phone
Date .	/	/	Employer/ Supervisor
Date .	/	/	CTE Teacher
Date	/	/	Home School Principal

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Inquiries regarding the District's non-discrimination policies should be directed to:

Executive Director of Student Support Services, Civil Rights Compliance Officer, Syracuse City School District, 725 Harrison Street • Syracuse, NY 13210 (315) 435-4131, Email: CivilRightsCompliance@scsd.us





CTE Internship Program Application Form

(Form #2)

Personal Information

Last Name	First Name	Age	Date of Birth		
Street		Home Telephone Number Cell Phone Number			
City, State, Zip		Emergency Contact Name Telephone Number			
Email Address		Relationship to Emergency Contact			
Primary Parent/ Guardian N	Name	Parent/ Guardian's Telephone Number			
Primary Parent/ Guardian E	mail	- Home Cell			
Secondary Parent/ Guardia	in Name	Secondary Parent/ Guardian's Telephone Number			
		Home			
Secondary Parent/ Guardia	ın Email	Cell			
Working Papers Certificate Number		SCSD Student schedule should be attached to this form			
		School Counseler			
		School Counselor			

School Year Training/ Work Schedule Availability

Please list the hours you can work during a typical weekly schedule

Sunday	Sunday Monday Tuesday		Wednesday	Thursday	Friday Saturday		

Please check applicable box:
☐ Fixed Schedule
☐ Schedule will vary

Sports, Clubs, and Other Activities

Transportation

Please check the appropriate response

Do you have a license?	Yes	No	If YES, which license do you have?	Full License	Junior License
Do you drive to school?	Yes	No	License Number:		

If you do not have a license, how do you plan on getting to and from your internship?

□ Public Transportation □ Other



Syracuse City School District CTE Internship Form

INSURANCE COVERAGE IN CASE OF INJURIES TO STUDENT AT INTERNSHIP:

EMPLOYER'S WORKER'S COMPENSATION MUST COVER THE STUDENT IN CASE OF INJURIES AT TRAINING SITE. PROGRAM AWARENESS STATEMENT <u>TO BE CHECKED BY STUDENTS</u>:

- □ In order to receive credit for my work-based learning experience, I must be training at a legal site approved by the school's CTE Teacher or work-based learning coordinator.
- □ I must notify my CTE teacher or work-based learning coordinator immediately if there is a change of work schedule or duties at the training site.
- □ Failure to report any disciplinary action, termination, or proper documentation of hours may result in the student not earning school credit.
- Students must present all daily attendance records to CTE teacher or work-based learning coordinator weekly and complete all assignments related to the program.
- □ I must immediately notify my work-based learning coordinator if I have or develop any medical condition(s) which affects my ability to participate in training, such as allergies, lifting heavy items, movement, standing, sitting, migraine headaches, etc. If there are any current conditions, please state them below. The presence of such a condition will not necessarily preclude me from participating in the internship and accommodations may be provided.

PARENTAL/GUARDIAN PERMISSION AND PICTURE/NEWS STORY RELEASE:

I give my child, permission to participate in the work-based learning internship at the Syracuse City School District. By signing the parental permission form, it is understood that:

- All the information is accurate.
- In order to receive credit, students must work a minimum of 150 hours during the school year.
- All students must report to CTE teacher or work-based learning coordinator in the case of any change in employment.
- Failure to report any disciplinary action, termination, or proper documentation may result in the student not earning school credit.
- Students must present all daily attendance records to CTE teacher or work-based learning coordinator weekly and complete all assignments related to the program.
- A student with a junior license must only drive to school if they go directly to work following the school day and they must carry with them the proper paperwork as directed by the work-based learning coordinator.

In addition to agreeing with the above statements, please check off one:

- □ I give permission for my child's photograph or name to be used to promote the Work Experience Program.
- □ I do not want my child's photograph or name to be used to promote the Work Experience Program.

		/ /
Parent/ Guardian's Name	Parent/ Guardian's Signature	Date
Relationship to Student		
		/ /
Student's Name	Student's Signature	Date

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CTE Internship Ready to Work Assessment

(Form #3)

						/	/	
Name			Program					
			<u>Sca</u>	ale				
		1 = Sel	dom. 2 = Occasional	lly. 3 = Us	ually. 4 = Always.			
			4					
		Student T	eacher Onsitervison			Student	Teacher	Onsite Supervi
ZES	т			OPT	TIMISM			
1	Actively participates			15	Gets over frustrations and setbacks quickly			
2	Shows enthusiasm			16	Believes that effort will improve his or her future			
3	Invigorates others			GRA	ATITUDE			
GRI	T			17	Recognizes and shows appreciation for others			
4	Finishes whatever he or she begins			18	Recognizes and shows appreciation for his/her opportunities			
5	Tries very hard even after			soc	IAL INTELLIGENCE			
6	experiencing failure Works independently with focus			19	Is able to find solutions during conflicts with others			
SEL	F CONTROL SCHOOL WORK			20	Demonstrates respect for feelings of others			
7	Comes to class prepared			21	Knows when and how to include others			
8	Pays attention and resists			CUF	RIOSITY			
	distractions			22	Is eager to explore new things			
9	Remembers and follows directions							
10	Gets to work right away rather than			23	Asks and answers questions to deepen understanding			
CEI				24	Actively listens to others.			
11	Remains calm even when criticized			ACA				
	or otherwise provoked			25	Completes all assignments with			
12	Allows others to speak without interruption			26	quality and timeliness			
13	Is polite to adults and peers			20				
				CON	MMITMENT			
14	Keeps his/her temper in check			27	Attends class with one or less absences per quarter			
							+	1

28 Demonstrates loyalty and appreciation to the program and instructors





CTE Internship Training Plan

(Form #4)

Student's Name	Email	
Student's Address	Telephone	Date of Birth
CTE Program Career Cluster	Working Papers Certificate #	·
School Coordinator		
Phone Number		
Fax Number		
Email		
Employer		
Phone Number		
Fax Number		
Email		
Immediate Job Supervisor		
Phone Number		
Email		
Corporate Address		

Training Schedule

Sunday Monday		Tuesday	Wednesday	Thursday	Saturday	

Insurance Coverage

- Student is a non-paid intern Worker's Compensation
- Student is a non-paid observer Worker's Compensation

Transportation Provided by

- Student/parent will provide own transportation
- School district will provide transportation during school hours

Goals for this Work-Based Learning Student:

- 1. To explore, learn and develop the skills necessary for this career.
- 2. To develop the Career Ready Practices necessary for success in the global, competitive world.
- 3. To be trained in the safe operations of this job title.
- 4. To be able to demonstrate positive behavior and appropriate dress.



	JOB TASKS AND LEARNING OUTCOMES (Determined by the Employer and Coordinator)	ACHIEVEMENT LEVEL AND COMMENTS 1. Mastered skill 2. Needs more training at the work site. 3. Needs more training at school. 4. Has not reached this training area.
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

CAREER READY PRACTICES	Always	Frequently	Occasionally	Rarely
1. Student works cooperatively as a team member?				
2. Student is able to read instructions for information and application.				
3. Student can calculate and measure for information and application.				
4. Student can behave in a responsible manner without supervision.				
5. Student can communicate verbally and in writing to evoke clear understanding.				
6. Student demonstrates good listening and follow through skills.				
7. Student demonstrates critical thinking and problem solving skills.				
8. Student can locate and manage resources for problem solving.				
9. Student demonstrates a positive work ethic.				
10. Student demonstrates computer literacy.				



(Form #4 Continued)

SAFETY TRAINING		DATE OF SAFETY TRAINING	ACHIEVEMENT LEVEL AND COMMENTS 1. Mastered safety training instruction. 2. Needs more safety training at work site. 3. Needs more safety training at school. 4. Has not reached this training area.
1. Safety precautions related to stairs, floors, office equipment and furniture.			
2. Safety precaution related to proper dress appare gloves, head, eye and ear protection.			
3. Safety precaution related to use of tools, machin chemicals.			
4. Safety precautions related to fire, weather and ot natural disasters.			
5. Safety precautions related to sexual harassment workplace violence.			
DRESS AND BEHAVIOR CODE FOR POSITION	ACHIEVEME 1. Dresses/bel 2. Needs to m 3. Needs pers	ENT LEVEL AND COMMENTS haves appropriately odify dress/behavior. onal consultation.	

		/ /
Employer Name	Employer Signature	Date
		/ /
Work-based Learning Coordinator Name	Work Based Learning Coordinator Signature	Date
		/ /
Parent/ Guardian Name	Parent/Guardian Signature	Date
		/ /
Student Name	Student Signature	Date
If you have any questions please do	o not hesitate to contact me at (315) 435	
Thank you for your cooperati	on! , CT	E Teacher
The Syracuse City School District hereby advises students, parents, employees a educational opportunities, including career and technical education opportuni marital status, sex, sexual orientation, age, gender identity or expression, disab discrimination policies should be directed to: Executive Director of Student Sup (315) 435-4131, Email: CivilRightsCompliance@scsd.us	and the general public that it is committed to providing equal access to all ties, regardless of actual or perceived race, color, national origin, Native A lilty or any other legally protected category under federal, state or local la oport Services, Civil Rights Compliance Officer, Syracuse City School Distri	l categories of employment, programs and merican ancestry/ethnicity, creed or religion, w. Inquiries regarding the District's non- ct, 725 Harrison Street • Syracuse, NY 13210/





SCSD CTE Internship Notification of Unpaid Internship

(Form #5)

This form serves as notification that the Syracuse City School District CTE Internship is an unpaid internship and students are not due any wages per New York State Department of Labor.

Student

/ / Date

/ / Date

Worksite Representative/ Mentor

CTE Teacher/ WBL Coordinator

/ / Date





SCSD Internship Safety Certification (Form #6)

Student

/ /

Date

Mentor or Supervisor

CTE/ WBL Teacher

Student CTE Program SCSD Career and Technical Program:

SAFETY CERTIFICATIONS	Date
OSHA 10	/ /
Safe Serv	/ /
First Aid	/ /
CPR	/ /
Other	/ /





SCSD Internship Worksite Orientation

(Form #7)

Student

/ / Date

Mentor or Supervisor

CTE/ WBL Teacher

Company Orientation

Directions: Be sure that your student employee obtains information about the factors listed below. Check the information on each item as it is completed. Return the completed form to the CTE Teacher or Work Based Learning Coordinator.

Tour of Wo	prkplace	Department/Position Specifics		
	A tour of the workplace		Explanation of work schedule	
	An overview of the company safety plan		Review of dress and conduct code	
	Introductions to co-workers		Review of hours, breaks and lunch policies	
Tour of Em	nployee Facilities		Location of time clock or sign-in	
	Rest rooms		Attendance requirements, including procedures for calling in when absent	
	Lunch room Where to store personal belongings		Relationship to working with other departments or co-workers	
Other		Job Specifi	ic	
Safety Pla	n		How to use the phones and office equipment	
	Safety plan		Supplies, paper, pens, etc.	
	Stairwell/fire exits		Job description, Work-Based Learning Plan and evaluation process	
	Fire Extinguishers	· ·		
	Special hazards	Superviso	rs Expectations	
	Accident prevention		Dress code including clothing, hair and jeweiry	
	Safety Training Log, updated as needed		Work performance including productivity and work habits	
About the	Company		Company culture	
	Discuss company organizational structure	Materials	provided to intern	
	Review type of business, products, services		Copy of personnel handbook	
	Overview of who the customers are		Organizational charts	
Other			Telephone directory	
			Security procedures	
		/	/	
Employer/	training sponsor	Date		
		/	/	
Student		Date		
		/	/	
CTE Teach	er/WBL Coordinator	 Date		



Weekly Time Log/Record of Attendance

(Form #8)

Student

Training Title

Worksite Supervisor

Time Log for the Week of: / /

	Date	Start Time	End Time	Hours Worked
Sunday				
Monday				
Tuesday				
Wednesday				
Thursday				
Friday				
Saturday				

Total Weekly Hours:

Student please list any new tasks performed this week: _

By signing this timesheet, you are certifying that it is correct and truthful.

Student's Signature

Supervisor Name

Phone

	/	/	
Date			
	/	/	
Date			

Supervisor's Signature

Attention Worksite Supervisor:

If you have any questions or concerns, please contact:

CTE Teacher

Phone

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Employer



SCSD CTE Internship Student Evaluation

(Form #9)

Name				CTE Program
/	/	 /	/	

Dates of Internship

Year to Graduate

Please complete this form upon completion of your internship.

	Strongly Agree	Agree	Indifferent	Disagree	Strongly Disagree
Overall, I had a great experience					
I was actively involved in the team meetings and felt free to express my thoughts and opinions					
My mentors encouraged and responded to my questions					
I have an increased appreciation for teamwork					
l have a greater ability to ask good questions and synthesize information					
l was presented with opportunities to learn by doing					
l gained factual knowledge about careers throughout the internship					
I would recommend this opportunity to others					
My time was well spent					
l would consider this employer as a future employer					
My co-workers are generally positive about work					
The best thing about my experience was					
The worst thing about my experience wa	S				
Any suggestions on how we could impro	ve the intern ex	perience?			

Other comments...





SCSD CTE Internship Mentor Program Evaluation

(Form #10)

Student Name	SCSD School
Interning Location	
	/ /
Supervisor/ Mentor Name	Date
Internship Preparation	Modes of Communication with SCSD Personnel
	Email
Inadequate	Phone Phone
Amount of Communication with SCSD Personnel	
Too little	
Suggestions for improvement:	
Additional comments:	
Return to CTE teacher: CTE Teacher Email	

BOARD OF EDUCATION

Derrick Dorsey, President Patricia Body, Vice President David Cecile Mark D. Muhammad Rita Paniagua Dan Romeo Katie Sojewicz

ADMINISTRATIVE STAFF

Jaime Alicea, Interim Superintendent TBD, Chief Operations Officer Christopher Miller, Ed.D., Chief Talent Officer Timothy Moon, Chief Accountability Officer Linda Mulvey, Chief Academic Officer Suzanne Slack, Chief Financial Officer Monique Wright-Williams, Chief of Staff

NOTICE OF NON-DISCRIMINATION

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Assistant Superintendent for Student Support Services, Civil Rights Compliance Officer Syracuse City School District 725 Harrison Street • Syracuse, NY 13210 (315) 435-4131

Email: CivilRightsCompliance@scsd.us

Return to TOC

F. Employability Profile

The employability profile is a record of student achievement. That may include documentation of the student's attainment of technical knowledge and work-related skills, endorsements, licenses, clinical experience, work experience, performance on core academic Regent's examinations, performance on industry based assessments, attendance, student leadership honors and achievements and other honors or accolades of student success.

Process

- An employability profile model is developed for the program
- A profile of student achievement is developed for each student in the program and is maintained in accordance with records and retention policies of the school district/BOCES.
- The profile of student achievement is reviewed and updated on a continuous basis by the student and the appropriate program/guidance personnel.
- The work skills to be mastered by students with disabilities should be aligned with the student's Individualized Education Program (IEP).

Documentation

Recommendations for the employability profile model should be included in the self-study report and reviewed by the external committee.

Source: http://www.p12.nysed.gov/cte/ctepolicy/guide.html



EMPLOYABILITY PROFILE ConstructionTechnology



Industry-Based Skill Standards

Proficiency Definitions

NA = Not Applicable

1 = Introduced

2 = Developing

3 = Proficient

4 = Mastery

	9th	10th	11th	12th
Shop Safety				
Demonstrates sound safety practices in the shop and wo tool safety, ladder safety, personal protective apparel, a	orksite env nd constru	ironme action si	nts incl ite safet	uding :y
Hand and Power Tools				
Demonstrates proper selection and use of both hand an the construction industry. Cleans, maintains, and proper	d hand-he ly stores a	ld powe Il tools	er tools	used ir
Stationary Woodworking Equipment				
Demonstrates safe operation of stationary equipment su drill presses, jointers, shapers, sanding machines, and la	uch as tabl thes	e saws,	band s	aws,
Blue Print Reading				
Can read and interpret blue prints and scaled drawings, drawings to obtain information about construction plans	detail drav s and deta	vings, a ils	nd plot	
Ladders and Scaffolding Safety				
Demonstrates safe use of ladders, scaffoldings, pump jac commonly found on a residential construction work site	ckes, and o	other rig	gging	
Masonry and Concrete				
Demonstrates understanding of masonry building techni veneer using appropriate tools and techniques. Can forr projects	iques such m, pour, ai	as bloc nd finisi	k, brick n flat co	, and ncrete
Floor Framing				
Demonstrtes the ability to cut and assemble floor framir using wood framing techniques. Installs load bearing pil openings	ng accordin asters, bea	ng to bu ams, an	ilding p d frame	lans Is
Wall and Ceiling Framing				
Demonstratesw the ability to layout, assemble, erect, an according to building plans. Constructs headers to carry	nd brace w loads ove	all and r openi	ceiling f ngs	ramin
Basic Residential Wiring				
Reads and interprets electical building drawings to instal boxes, and switch boxes in correct locations. Pulls and s	ll outlets, j ecures wir	unction ing to c	boxes, ode	ceiling

Industry Certifications / Credential / Endorsement	yes	no
OSHA 10 Certification		

	9th	10th	11th	12th		
toof Framing						
Demonstrates the ability to lauout common and hip rafters, install trusses, and install heathing and appropriate finishing techniques to gables and fachia						
nterior Wall and Ceiling Finishing						
Demonstrates the ability to install drywall and other wall fin ppropriate equipment and techniques. Finishes and prepa	nishing ares wa	materia II and ce	lls using eilings fo	or paint		
tair Construction						
Demonstrates the ability to layout and construct stairs and ayout techniques. Installs and finishes stairs to building sp nformation	stair sti ecs usir	ringers ng bluep	using ba print	sic		
Vindows and Exterior Doors						
Demonstrates the ability to install windows and doors using veatherization principals. Can remove and replace original	g appro with re	priate t eplacem	echniqu Ient unit	es and :s		
nterior Doors and Trim						
nstalls interior doors and trim surfaces using approporate ccording to building plans and detail drawings. Uses both omplete installations	tools an hand a	id techr nd air to	niques pols to			
(itchen Cabinet Installation						
nstalls and finishes pre-made cabinetry in kitchens and bat nstallation techniques and tools. Builds countertops using ccording to plans	hs usin Iamina	g appro te and i	priate nstalls			
xterior Wall Finish						
Demonstrates the ability to install exterior wall finishes acc pecifications such as wood siding, vinyl siding, stucco, and per building plans	ording t various	to mate compo	rial site mat	terials		
OSHA 10 Certification						
Completes OSHA Training on site safety, ladder safety, riggi sarn the OSHA 10 industry certification	ng, and	materi	al handl	ing to		
Career Development Portfolio						
las developed a career development portfolio using appro over letter, resumes, samples of work, and career plan to process	priate v be used	vriting s I in the j	kills to c job seek	reate ing		

Articulated College Credit or Advanced Standing	
Total	

SYRACUSE CITY SCHOOL DISTRICT	EM 1S ¹	PL(tru	JY IC1	AB tio	ILITY PROFILE n Technology
Student Name:				School	Year: Absences:
ID Number:	Teacher:				er: Final Grade:
Care NA = Not Applicabl	er Re	eady F	Practio ST Develop	ces / C ANDAR	Career Development Standards IDS DEFINITIONS 2 = Basic 3 = Proficient 4 = Mastery
	9th	10th	11th	12th	9th 10th 11th 12th
Acts as a responsible citizen/employee					Models integrity, ethical behavior, and leadership
Is on time and prepared, follows workplace policies, demonstrates reliability and dependability, is polite and courteous to adults and peers, demonstrates appreciation, and is reliable and consistent in their actions Is accountable and transparent in all of their work and assignments. Consistent exhibits ethical behavior, and commitment to completing tasks as assigned. Deva					
Applies appropriate academic and technical skills					Develops and implements a Career Plan
Demonstrates an understanding of the academic knowled their trade. Technical skills are developed with academic English language arts and science that are integrated with	lge and compet iin the	l skills as tencies i CTE pro	ssociate ncludin gram.	ed with Ig	Develops a career plan based on understanding of their personal goals and the career pathways that aligns to them. Develops resumes, cover letters, and examples of best work to aid in the job seeking process and/or entrepreneurial goals.
Attends to personal health and financial well-being					Uses technology to enhance productivity
Recognizes the benefits of physical, mental, social, and fir importance of that success in their career. Accepts criticis improvement targets on a consistent basis.	nancial m and	well-bei works ti	ing to tl owards	he self-	Demonstrates an understanding of the use of technology related to their career pathway. Continually develops their ability to adapt to changing work environments using technology, including new tools and their associated applications.
Communicates clearly, effectively, and with reason.					Works as a productive and respectful team member
Is able to communicate both verbally and in writing to ex information. Uses appropriate vocabulary to share inforr writing as well. Demonstrates active listening skills and v	oress id nation l rerbal c	leas and both vei ommun	l obtain rbally ai ication.	nd in	Actively participates as a member of a team recognizing and appreciating others skills and abilities. Adds to the collective value of the team, and invigorates others to add to the collective efforts and goals.
Makes appropriate decisions					Demonstrates reliability and dependability
Considers the environmental, social, and economic impacts of their decisions. Understands that their actions and decisions will impact other people directly. Works independently and responds positively to new ideas and suggestions.					Regardless of tasks given, demonstrates reliable and dependable behaviors to meet the expectations as defined. Attendance and levels of participation meet expectations consistently. Take on additional responsibilities without prompting.
Demonstrates creativity and innovative thought					Arrives on time and is prepared to work
Demonstrates creativity and new thinking to solve workp encountered. Is creative, innovative, and is eager to explo issues and challenges that are encountered.	lace pro pre new	oblems a v ways o	as f addre	ssing	Consistently demonstrates promptness, reliability, and commitment to reporting for classes, work site experiences, and other assignments as defined. Reports prepared for work or education as requirements dictate, meets attendance requirements.
Employs valid and reliable research strategies					Demonstrates safe working habits
Seeks information to develop a deeper understanding of issues encountered. Uses technology as a tool to research, organize, and evaluate information critically incompetently. Interprets information and draws conclusions based on best analysis.					When engaging in worksite situations or learning labs, uses tools and equipment safely, observes general safety guidelines for material handling, and meets the expectations of maintaining a safe work environment for others.
Uses critical thinking skills and demonstrates perseverar	ice				Demonstrates problem solving skills
Demonstrates problem-solving skills through the use of creative thinking, decision- making, and adaptability. Effectively reasons through difficult situations, and makes decisions even when faced with complex or challenging problems.					Addresses problems encountered using effective problem-solving strategies. Works to define potential solutions to problems, identifies and implements the best solution based on the information gathered and their skill and knowledge.
Earned Technical Endorsement on Diploma YES		NO]	Special Recognitions or Scholarships

Student Leadership Organization _