

Student Name: _____

Date: _____

PROGRAM COMPETENCY PROFILE FOR CAREER TECHNICAL EDUCATION
Career Cluster: Architecture and Construction

Program Name: Drafting and Design Technology/Technician, General CIP: 151301

Effective 08/13

National Standard: American National Standards Institute (ANSI)

<p>Competencies (statement that provides the overview and defines the instructional area)</p> <p>Student will:</p>	<p>Knowledge, Content and Skills (what a student needs to know and be able to do and upon which they will be assessed)</p> <p>Student will:</p>	<p><u>NH Common Core State Standards</u> – Aligned</p> <ul style="list-style-type: none"> • English/Language Arts/Literacy: E • Mathematics: M • Science: S • Art: A 	<p>Rating Scale -Sample Performance Assessments (Performance tasks the student needs to demonstrate in order to be rated proficient in meeting the competency)</p> <p>Student will:</p>				
<p>Understand the necessary employability skills in order to achieve success in today’s workplace.</p>	<p>1. Decision-Making & Problem-Solving: Demonstrate and apply good decision-making and problem-solving skills by outlining issues in situations/problems and determining, collecting, and organizing information needed in order to formulate a solution.</p>		<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">1</td> <td style="width: 25%;">2</td> <td style="width: 25%;">3</td> <td style="width: 25%;">4</td> </tr> </table> <p>For Example: You are a recent college graduate that is applying for a highly competitive position as an entry level architect. How will you stand out from other applicants? You will need to create a cover letter, resume, and electronic portfolio that highlight your strengths.</p> <p>or</p> <ul style="list-style-type: none"> - create an outline - create a troubleshooting log - make class presentation - develop and test strategies or options that work - provide examples of the strategies or options tested or tried - compare and analyze pros and cons of identified strategies or options - through teamwork, arrive at a decision or determine a solution that is well suited to the task 	1	2	3	4
1	2	3	4				

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	2. Self –Management: Demonstrate and apply self-management skills by adhering to regulations, being responsible, and following through on commitments. AAI 9. Personal Work Habits: Explain the work habits an employer looks for in an employee in this industry.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> For Example: - have a written test on applicable policies and procedures - assess student orientation knowledge through instructor observations and written unit test - review student handbook - adhere to regulations in school, classroom, and everyday settings - build trust by being consistent, dependable, and verbally positive with others - ask questions and listen to others - keep track of assignments and/or responsibilities - have work done on time	1	2	3	4
1	2	3	4				
	3. Communication Skills: Demonstrate and apply effective communication skills: verbal, written, visual, and listening.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> For Example: - be given a work order that contains written instructions of a specific job and complete the work order - create a power point presentation - participate in a debate - perform mock interviews - develop a topic - include details to support a main point - use appropriate grammar and sentence structure - organize writing and/or presentation materials - use constructive feedback to improve skill	1	2	3	4
1	2	3	4				

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	4. Ability to Work with Others: Demonstrate and apply the necessary skills in order to work effectively with others.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">1</td> <td style="width: 25%;">2</td> <td style="width: 25%;">3</td> <td style="width: 25%;">4</td> </tr> </table> For Example: - role play a situation in which there is a conflict which must be resolved - compose a list of what she/he believes to be the most common problems within that profession after reviewing appropriate work ethics standards - demonstrate beginning skills in conflict management by outlining the issues involved and others' points of view - demonstrate knowledge of the possible roles and responsibilities that individuals assume while working with others - demonstrate knowledge of group skills: listening, brainstorming, clarifying information, showing initiative, acknowledging contributions, defining group tasks, and responding positively to constructive feedback	1	2	3	4
1	2	3	4				

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	5. Information Use - Research, Analysis, Technology: Demonstrate and apply the use of information through research, analysis, and technology.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">1</td> <td style="width: 25%;">2</td> <td style="width: 25%;">3</td> <td style="width: 25%;">4</td> </tr> </table> For Example: - do a research project and develop a presentation for the class - keep a daily notebook - show use of a plan for gathering information - gather information from a variety of sources, using a variety of technologies - evaluate sources for correct and trustworthy information - document sources of information appropriately - demonstrate and apply the skills in using software applications (MS Office) - use a filing/organization system for information, such as notebook, disk, etc. - justify the use of a particular organizational system for a particular product - demonstrate effective communication skills (written, oral, listening) - effectively present a thesis, supporting evidence, and a conclusion using a variety of media	1	2	3	4
1	2	3	4				

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	6. Mathematical Concepts: Demonstrate mathematical and computation skills as applied to real world situations.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">1</td> <td style="width: 25%;">2</td> <td style="width: 25%;">3</td> <td style="width: 25%;">4</td> </tr> </table> <p>For Example:</p> <ul style="list-style-type: none"> - keep a log of all possible uses of mathematics noticed throughout the class/lab/worksite - compute accurately, applying addition, subtraction, multiplication, and division on real numbers, fractions, percents, and decimals - collect, interpret, organize and display relevant data for solving a mathematics problem - translate real world problems into mathematical representations - express and present mathematical ideas clearly in everyday written and oral language - express in written and oral language how mathematics connects to other contexts outside the mathematics classroom - use basic numerical concepts such as whole numbers and percentages in practical situations; make reasonable estimates of arithmetic results without a calculator; and use tables, graphs, diagrams, and charts to obtain or convey quantitative information - approach practical problems by choosing appropriately from a variety of mathematical techniques; use quantitative data to construct logical explanations for real world situations; express mathematical ideas and concepts orally and in writing; and understand the role of chance in the occurrence and prediction of events 	1	2	3	4
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	7. General Safety: Demonstrate and apply safe practices and procedures in the workplace. AAI 8. Health, Safety, and Environment: Explain the health and safety laws and practices affecting the employee, the surrounding community, and the environment in this industry.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">1</td> <td style="width: 25%;">2</td> <td style="width: 25%;">3</td> <td style="width: 25%;">4</td> </tr> </table> For Example: - develop scenarios of hazards and accidents using publications and the internet - be observed by teacher - take written quizzes/written tests - demonstrate knowledge of safety and sanitation practices and procedures - identify and report hazardous conditions and safe working procedures - use personal protective equipment and clothing	1	2	3	4
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	8. Career Development: Demonstrate personal/career development skills by completing a career plan.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> Example: - complete a self-awareness inventory - develop a career portfolio - use a career software, such as Choices, to measure their aptitudes and abilities for particular careers - use available resources (college catalogs and websites) to research information about postsecondary educational opportunities - select a career in the field and outline educational and skill requirements, expected job growth, and salaries - review with teacher software printout to assess their aptitudes and abilities - make appropriate choices in pursuit of postsecondary education or training and/or direct entry into the world of work - plan a senior experiential project to review and evaluate a variety of career choices	1	2	3	4
1	2	3	4				
Understand the importance of personal growth and leadership to enhance career success.	9. Demonstrate personal growth, community leadership, democratic principles, and social responsibility by participating in activities/events offered through student organizations.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> Example: As the student president, the local chamber of commerce has asked you and your team members to speak at their annual event. You have decided a power point will be the visual aid.	1	2	3	4
1	2	3	4				

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Understand the concepts of design intent and the options to solve the problem in communicating with the client.	10. Demonstrate and apply the skills of problem solving.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table> Example: You are a junior designer faced with redesigning a GPS holder for a new vehicle coming on the market. Sketch out the new design for a formal presentation to the auto dealers.	1	2	3	4
1	2	3	4				
	11. Know the universal language of graphic standards.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table> Example: You are a junior designer that has been given a premade object. You need to present in graphical form to show the top, front and side view using the proper graphic standards.	1	2	3	4
1	2	3	4				
Understand the concepts, processes and procedures of the use of sketches to extend the design process.	12. Demonstrate the use of drawing instruments to complement drafting media.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table> Example: As a junior designer, you have identified the proper views. Using your presentation you will now use the proper tools in order to place on paper adhering to all graphic standards. Present to the client. Continue to #13	1	2	3	4
1	2	3	4				
	13. Construct sketches to conceptualize ideas and /or describe objects.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table>	1	2	3	4
1	2	3	4				
Understand the concept, procedure and use of replication in order to increase efficiency of design documentation.	14. Identify and reproduce forms, shapes, and constraints.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table> Example: You are a designer that has been presented with a current office plan. Without completely redesigning use the existing elements to refine the drawing. Present it to the building committee.	1	2	3	4
1	2	3	4				

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Understand the concept and procedures for measuring in different coordinate systems.	15. Demonstrate and apply coordinate systems.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table> Example: You are a junior engineer who has been given a conceptual design of an interior space. Using the coordinate systems lay out the columns and elements in their proper locations for use in the structural analysis of the space. Present your findings to the client.	1	2	3	4
1	2	3	4				
Understand the concept of planning drawings.	16. Demonstrate planning in the layout process to standards. AAI 4. Technical and Production Skills: Identify specific production and technical skills required for this industry.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table> Example: You are an intern working for an architect's office. You are faced with a challenge to design a residential building that is 1500 sq. ft., single floor, and to be built in the northeastern part of the US. The design needs to be created on (2) D size sheets of paper and must include the following information. Floor plan dimensioned, labeled and noted, four elevations, wall sections of stairs and roof layout which also will be dimensioned. The scale of the drawing will be 1/8"=1'0". Continued to #18-21	1	2	3	4
1	2	3	4				
	17. Demonstrate the proper selection of surfaces to construct a drawing.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table>	1	2	3	4
1	2	3	4				
	18. Demonstrate view organization and projection.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table>	1	2	3	4
1	2	3	4				
	19. Construct the proper section view.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table>	1	2	3	4
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	20. Construct proper auxiliary view.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table>	1	2	3	4
1	2	3	4				
	21. Construct proper assembly and detail drawings.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table>	1	2	3	4
1	2	3	4				
Understand the concepts, processes and procedures of developing charts and schedules.	22. Identify and reproduce material selection schedules.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table> <p>Example: As a new employee at Hardy’s, you have been asked to draft a door and window schedule for a new client. Provide a quote for the schedule and present to your accountant before it goes to the client.</p>	1	2	3	4
1	2	3	4				
Understand the concepts of dimensioning/measurement processes and procedures.	23. Describe an object to: size, location, precision and scale.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table> <p>Example: A mechanical Engineer gives you a drawn part with no dimensions or spacing. You are required to produce the part. Create a drawing with the dimensions, side scale and any notes needed to have the part produced.</p> <p>Cont. to # 24-25</p>	1	2	3	4
1	2	3	4				
	24. Demonstrate proper placement of dimensions.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table>	1	2	3	4
1	2	3	4				
	25. Organize and finalize general notes and attributes.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table>	1	2	3	4
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Understand the concepts and procedures used to develop a design presentation.	26. Produce visual and/or oral presentation. AAI 5. Underlying Principles of Technology: Explain through discussion the technological systems used within this industry.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table> Example: You work for a contractor and he has asked you to prepare a presentation for a customer meeting next week. The presentation will show the customer your company’s proposal for their new addition.	1	2	3	4
1	2	3	4				
Understand the fundamental concepts of entrepreneurship and how entrepreneurship influences the economy.	27. Discuss and assess business creation possibilities and identify the steps in planning the venture. AAI 1. Planning: Explain the key elements of a long-term plan for a successful company. AAI 2. Management: Discuss the different forms of management and ownership within this industry. AAI 3. Finance: Explain the key components of financial management of a company. AAI 6. Labor Issues: Explain the employees’ and employers’ rights and responsibilities in this industry. AAI 7. Community Issues: Discuss the ways a company can impact its community and the ways a community can impact a company.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> </table> Example: You and your best friend have decided to open your own drafting company. You will need to research opportunities to secure start-up capital and materials needed for your business. Create a presentation for your business plan.	1	2	3	4
1	2	3	4				

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	28. Identify and discuss the traits and behaviors of an entrepreneur (leadership, personal assessment, personal management).		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 20px; text-align: center;">1</td> <td style="width: 20px; text-align: center;">2</td> <td style="width: 20px; text-align: center;">3</td> <td style="width: 20px; text-align: center;">4</td> </tr> </table> <p>Example: You are contemplating starting your own business and have scheduled to meet with a business owner to discuss and assess if you possess the personal traits that are typical characteristics of being a business owner.</p>	1	2	3	4
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