

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

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

**Program Name: Building/Property Maintenance and Management CIP: 460401**

Effective 8/09

National Standard: National Career Cluster Institute

<b>Competencies</b> (statement that provides the overview and defines the instructional area) <b>Student will:</b>	<b>Knowledge, Content and Skills</b> (what a student needs to know and be able to do and upon which they will be assessed ) <b>Student will:</b>	<u>NH Common Core State Standards – Aligned</u> <ul style="list-style-type: none"> <li>• English/Language Arts/Literacy: E</li> <li>• Mathematics: M</li> <li>• Science: S</li> <li>• Art: A</li> </ul>	<b>Rating Scale -Sample Performance Assessments</b> (Performance tasks the student needs to demonstrate in order to be rated proficient in meeting the competency) <b>Student will:</b>				
<b>Understand procedures, methods, and concepts in using tools, equipment, and materials to establish a safe work environment</b>	1. Identify and demonstrate the procedures and policies of safety of the trade. <b>AAI 8. Health, Safety, and Environment:</b> 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>	1	2	3	4
1	2	3	4				
<b>Understand the concepts and basic skills in blueprint/design and use of hand and power tools in fabrication/construction</b>	2. Use current technology to develop simple plans and sketches. <b>AAI 5. Underlying Principles of Technology:</b> Explain through discussion the technological systems used within 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>	1	2	3	4
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	3. Identify symbols and drawing techniques used to develop simple plans and sketches.		<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>	1	2	3	4
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	4. Identify parts of plans or blueprints and criteria for different views of a plan or blueprint.		<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>	1	2	3	4
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	5. Demonstrate the proper use of measurement and layout tools in construction/fabrication on a project.		<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>	1	2	3	4
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	6. Demonstrate proper sequence in the use of tools in construction/fabrication on a project.		<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>	1	2	3	4
1	2	3	4				
	7. Demonstrate the proper procedure for squaring a piece of stock.		<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>	1	2	3	4
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	8. Discuss and explain the properties of wood and the process of converting trees into wood products.		<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>	1	2	3	4
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	9. Construct a wooden product using basic joinery techniques.		<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>	1	2	3	4
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	10. Produce a turned product.		<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>	1	2	3	4
1	2	3	4				
	11. Identify and explain terms associated with foundation, floor, wall and roof systems.		<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>	1	2	3	4
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	12. Demonstrate floor, wall and roof framing techniques. <b>AAI 4. Technical and Production Skills:</b> Identify specific production and technical skills required for 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>	1	2	3	4
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	13. Discuss and identify lumber materials such as dimensional lumber, plywood, building boards and engineered wood products.		<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	1	2	3	4
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	14. Demonstrate proper selection and use of a variety of fasteners and adhesives.		<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	1	2	3	4
1	2	3	4				
	15. Identify types of materials used in finishing wood products and structures and demonstrate their application.		<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	1	2	3	4
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<b>Understand anatomy and physiology as applied to production and management of plants in both domesticated and natural environments</b>	16. Describe plant nutrient sources and determine plant nutrient requirements for optimum growth.		<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	1	2	3	4
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	17. Determine the environmental factors that influence and optimize plant growth.		<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	1	2	3	4
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18. Describe nutrient application methods and appropriate practices.		<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	1	2	3	4	
1	2	3	4				
19. Identify soil slope, structure, and type, and evaluate media characteristics.		<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	1	2	3	4	
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	20. Determine the role of genetics in plants.		<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	1	2	3	4
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	21. Describe the components and functions of plant reproductive parts.		<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	1	2	3	4
1	2	3	4				
	22. Describe and practice methods of asexual and sexual plant propagation.		<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	1	2	3	4
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	23. Identify common plant pests and determine pest management methods.		<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	1	2	3	4
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<b>Understand taxonomy or other classifications that relate to basic plant anatomy and physiology</b>	24. Identify and classify basic plant structures (i.e., roots, stems, and leaves) and describe functions of each.		<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	1	2	3	4
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	25. Describe germination process and conditions.		<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	1	2	3	4
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26. Classify plants by economic and environmental value.		<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	1	2	3	4	
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<b>Understand the fundamentals of production and harvesting to produce plants</b>	27. Identify and evaluate environmental conditions that foster germination and growth in seeds and plants.		<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table>	1	2	3	4
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	28. Describe methods for plant growth (e.g., pruning, pinching, and shaping) and prepare media for planting.		<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>	1	2	3	4
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<b>Understand the elements of design to enhance an environment</b>	29. Conduct a site evaluation for physical conditions and design implications, and apply and incorporate principles of design.		<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>	1	2	3	4
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30. Select living materials, supplies and tools used in design and installation, and describe the financial implications of design decisions.		<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>	1	2	3	4	
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<b>Understand the processes and techniques pertaining to residential service</b>	31. Identify the common components used in residential wiring.		<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>	1	2	3	4
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<b>Understand the fundamental concepts of entrepreneurship and how entrepreneurship influences the economy</b>	32. Identify the steps and resources needed for venture startup and operation and options in planning the venture’s future (growth, development, demise). <b>AAI 1. Planning:</b> Explain the key elements of a long-term plan for a successful company. <b>AAI 2. Management:</b> Discuss the different forms of management and ownership within this industry. <b>AAI 3. Finance:</b> Explain the key components of financial management of a company. <b>AAI 6. Labor Issues:</b> Explain the employees’ and employers’ rights and responsibilities in this industry. <b>AAI 7. Community Issues:</b> Discuss the ways a company can impact its community and the ways community can impact a company.		<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>	1	2	3	4
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	33. Identify and discuss the traits and behaviors of an entrepreneur (leadership, personal assessment, personal management).		<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>	1	2	3	4
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<b>Understand the importance of personal growth and leadership to enhance career success</b>	34. 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 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>	1	2	3	4
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<b>Understand the necessary employability skills in order to achieve success in today’s workplace</b>	<b>35. Decision-Making &amp; Problem-Solving:</b> 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.		<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> <b>For Example:</b> - 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 - independently arrive at a decision or determine a solution that is well suited to the task - communicate in a clear format how the solution was formed - justify or describe how and why a particular solution option was chosen	1	2	3	4
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	<p><b>36. Self –Management:</b>                      Demonstrate and apply self-management skills by adhering to regulations, being responsible, and following through on commitments.</p> <p><b>AAI 9. Personal Work habits:</b> Explain the work habits an employer looks for in an employee in this industry.</p>		<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><b>For Example:</b></p> <ul style="list-style-type: none"> <li>- have a written test on applicable policies and procedures</li> <li>- assess student orientation knowledge through instructor observations and written unit test</li> <li>- review student handbook</li> <li>- adhere to regulations in school, classroom, and everyday settings</li> <li>- build trust by being consistent, dependable, and verbally positive with others</li> <li>- ask questions and listen to others</li> <li>- keep track of assignments and/or responsibilities</li> <li>- have work done on time</li> <li>- respond positively to constructive feedback</li> <li>- show respect for others and their points of view</li> <li>- set individual goals and document progress toward achieving those goals</li> <li>- take initiative to pursue learning</li> <li>- adapt as necessary to create a positive outcome for self and others</li> <li>- advocate appropriately for himself/herself</li> </ul>	1	2	3	4
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	<b>37. Communication Skills:</b> 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> <b>For Example:</b> - 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 - participate in discussion and conversation by listening, entering in, taking turns, responding to others’ remarks, asking questions, summarizing and closing, as appropriate to the given context - use varied vocabulary for clarity and effectiveness - support his/her ideas in a public forum using the appropriate visual/audio aides - select and use the appropriate media and method(s) to communicate the subject effectively - adapt writing, speaking, and/or visual presentations effectively to a particular audience - act on or respond appropriately to verbal and non-verbal cues from the audience	1	2	3	4
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	<b>38. Ability to Work with Others:</b> 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> <p><b>For Example:</b></p> <ul style="list-style-type: none"> <li>- role play a situation in which there is a conflict which must be resolved</li> <li>- compose a list of what she/he believes to be the most common problems within that profession after reviewing appropriate work ethics standards</li> <li>- conduct an interview with a manager and share report with classmates</li> <li>- demonstrate knowledge of individual strengths he/she brings to a group</li> <li>- demonstrate knowledge of and respect for cultural and individual differences</li> <li>- demonstrate beginning skills in conflict management by outlining the issues involved and others' points of view</li> <li>- demonstrate knowledge of the possible roles and responsibilities that individuals assume while working with others</li> <li>- demonstrate knowledge of group skills: listening, brainstorming, clarifying information, showing initiative, acknowledging contributions, defining group tasks, and responding positively to constructive feedback</li> <li>- demonstrate increasing skills in conflict management by brainstorming a variety of solutions and their possible outcomes</li> <li>- apply his/her individual strengths to enhance a group's performance</li> <li>- assume responsibilities within a group</li> <li>- demonstrate the use of group skills in a way that enhances a group's performance</li> <li>- demonstrate skills in conflict management by describing, justifying, and applying a resolution process, and reflecting on the outcome</li> </ul>	1	2	3	4
1	2	3	4				

**Key: Rating Scale:** 1 NO EXPOSURE; 2 = NOVICE (Information was covered in class, but student cannot demonstrate skill or knowledge without significant supervision); 3 = PROFICIENT (Student regularly demonstrates the knowledge or skill); 4= MASTERY (Student demonstrates successful completion of this skill numerous times without supervision.)

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

**Program Name: Building/Property Maintenance and Management CIP: 460401**

Effective 8/09

National Standard: National Career Cluster Institute

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	<b>39. Information Use - Research, Analysis, Technology:</b> Demonstrate and apply the use of information through research, analysis, and technology.		<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> <b>For Example:</b> - 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 - use sources that are current and appropriate to the topic - 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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	<b>40. Mathematical Concepts:</b> Demonstrate mathematical and computation skills as applied to real world situations.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <b>For Example:</b> - 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
1	2	3	4				

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	<b>41. General Safety:</b> Demonstrate and apply safe practices and procedures in the workplace.		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <b>For Example:</b> - 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
1	2	3	4				
	<b>42. Career Development:</b> 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> <b>For Example:</b> - 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				

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