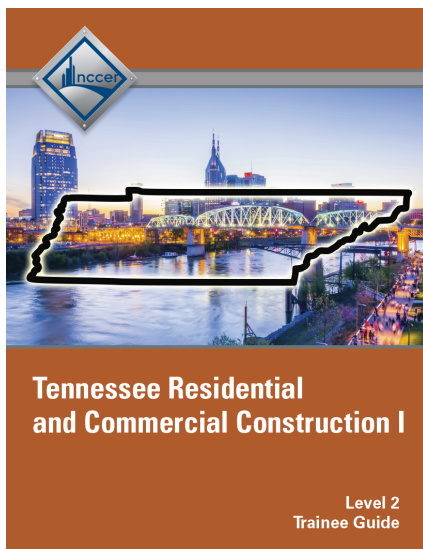


Pearson

Tennessee CTE 2016 Adoption: Residential & Commercial Construction I

**Tennessee Residential and Commercial Construction I (Level 2)
Trainee Guide**

ISBN: 9780134550039



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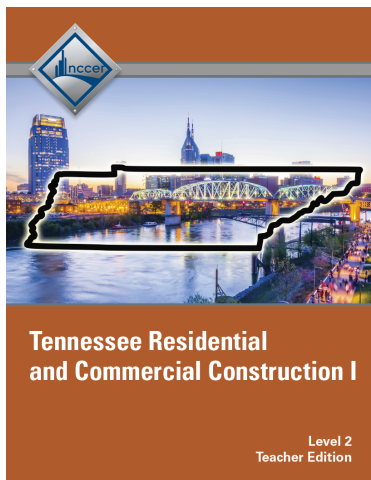
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Tennessee CTE 2016 Adoption: Residential & Commercial Construction I

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Teacher Edition with Online Access**

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Tennessee Construction Level 2 Trainee Guide

Pearson Response to TN Reviewer Comments

List of Changes

- An addendum containing new material was added the Trainee Guide.
- A corresponding addendum containing new material was added to the Instructor Guide.
- Tables of Contents for the Trainee Guide and the Instructor Guide were updated to show the addition of the addenda.

Addenda Details

The **Trainee Guide Addendum (Tennessee Learning Addendum)** contains college and career readiness content and eight additional NCCER modules:

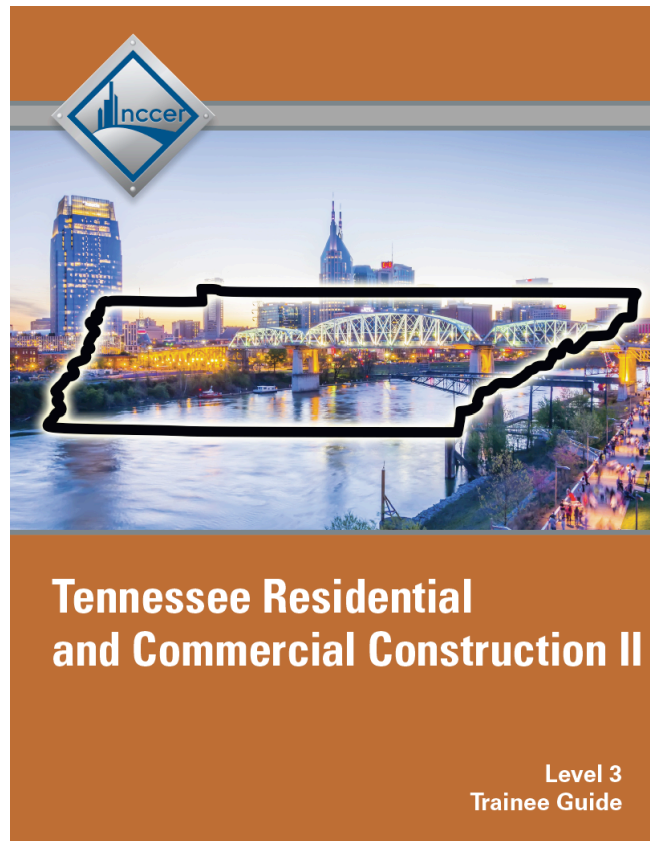
00101-15 Basic Safety
44105-08 Construction Documents
44101-08 Introduction to Project Management
00108-15 Basic Employability Skills
00105-15 Introduction to Construction Drawings

The **Instructor Guide Addendum (Tennessee Teaching Addendum)** contains college and career readiness content and the instructor support for the same eight additional NCCER modules:

00101-15 Basic Safety
44105-08 Construction Documents
44101-08 Introduction to Project Management
00108-15 Basic Employability Skills
00105-15 Introduction to Construction Drawings

The **Tennessee Teaching Addendum** also contains additional instructor support for Tennessee Department of Education Standards: Safety (1), Tools and Equipment (4), Construction Industry Principles (5) and (6), Roofing Systems (9), (10), and (11), Exterior Finishing (13), (14), and (15), Basic Stair Framing Systems (18), Introduction to Masonry Systems (19), Plumbing Systems (21), and (24), Introduction to Heating, Ventilation, and Air Conditioning Systems (HVAC) (30, 31), Construction Drawings and Specifications (33), Business and Project Management (36)

A Correlation and Narrative Brief of Tennessee Residential and Commercial Construction II ©2017



**To the
Tennessee Learning Expectations
for
Residential and Commercial
Construction II**

TEXTBOOK NARRATIVE FOR THE STATE OF TENNESSEE

Commercial Construction II

©2017

ISBN: 978-0-13-455003-9

SUMMARY:

This custom text contains selected modules from NCCER's Construction Technology curriculum designed by highly qualified subject matter experts and includes theoretical and practical skills, and is ideal for programs in construction. It consists of modules on masonry, roofing, exterior finishing, and others from various NCCER programs and is available in full color.

To provide a comprehensive, user-friendly resource, the text incorporates various features to provide students with the proper tools to get started in the trade. These features include:

- Learning objectives, Performance Tasks, and Trade Terms are found at beginning of each module
- Color illustrations and photographs are used throughout the text to highlight important concepts and help clarify complex instructions
- Special Features provide a head start for those entering the field by presenting technical tips and professional practices from operators in various disciplines
- Safety features are set off from the
- main text in highlighted boxes and organized into Notes, Cautions, and Warnings based on the potential danger of the issue being addressed
- Going Green looks at ways to preserve the environment, save energy, and make good choices regarding the health of the planet
- Did You Know features offers hints, tips, and other helpful information from the trade
- Step-by-step instructions guide students through technical procedures and tasks
- Each module presents a list of Trade Terms that are discussed within the text and defined at the end of each module
- Review Questions at the end of each module are provided to reinforce the knowledge students have gained

Supplements:

A printed Teacher Edition, ISBN 978-0-13-455005-3, contains an instructor's copy of the student edition as well as lesson plans for each module.

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Standards for Residential & Commercial Construction II**

| Tennessee Department of Education Standards for Residential & Commercial Construction II | Tennessee Residential and Commercial Construction II (Level 3), ©2017 |
|---|---|
| Residential & Commercial Construction II | |
| Course Standards | |
| Safety | |
| 1) Identify safety hazards on a jobsite and demonstrate practices for safe working conditions. Accurately read, interpret, and demonstrate adherence to safety rules, including but not limited to rules pertaining to electrical safety, Occupational Safety and Health Administration (OSHA) guidelines, and state and national code requirements. Be able to distinguish between the rules and explain why certain rules apply. Recognize and employ universal construction signs and symbols such as colors, flags, stakes, and hand signals that apply to construction workplace situations. Research and evaluate construction company safety plans from local industry. Explain the need for jobsite security to prevent liability. Drawing from examples, create and implement a jobsite safety program in the class to ensure safe practices and procedures including jobsite security procedures. (TN Reading 3, 4, 6; TN Writing 2, 4) | Construction Technology 68104-09 Introduction to Masonry SE/TE: 11.0.0-11.11.2 Construction Technology 68109-09 Roofing Applications SE/TE: 4.0.0-4.9.0 00105-15 Basic Safety SE/TE: See SE/TE Addendum |
| 2) Maintain safety records and demonstrate adherence to industry-standard practices regarding general machine safety, tool safety, equipment safety, electrical safety, and fire safety to protect all personnel and equipment. For example, when operating tools and equipment, regularly inspect and carefully employ the appropriate personal protective equipment (PPE), as recommended by Occupational, Safety & Health Administration (OSHA) regulations. Incorporate safety procedures when operating tools and equipment, such as hand and power tools, ladders, scaffolding, and lifting equipment. Complete safety test with 100 percent accuracy. (TN Reading 3, 4) | Construction Technology 68104-09 Introduction to Masonry SE/TE: 11.0.0-11.11.2 Construction Technology 68109-09 Roofing Applications SE/TE: 4.0.0-4.9.0 00105-15 Basic Safety SE/TE: See SE/TE Addendum |
| 3) Follow procedures to work safely around materials. Adhere to responsibilities for employees in material safety as outlined by the Hazard Communication Standard (HazCom), such as locating and interpreting material safety data sheets (MSDS). For example, obtain an MSDS for a given material from a supplier in the community. Demonstrate safe procedures to move materials by planning the movement, properly lifting, stacking, and storing materials, and selecting proper materials-handling equipment. (TN Reading 3, 4) | Construction Technology 68104-09 Introduction to Masonry SE/TE: 11.3.0, 11.7.0-11.7.1 Construction Technology 68110-09 Exterior Finishing SE/TE: 2.0.0 Construction Technology 68116-09 Plastic Pipe and Fittings SE/TE: 2.7.0 00105-15 Basic Safety SE/TE: 1.3.0-1.3.5, 6.1.0, 6.1.4 See SE/TE Addendum |
| Tools & Equipment | |

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| 4) For each of the systems covered in this course, identify and select the proper tools and accessories, critique the readiness of the tools, use the tools to accomplish the desired tasks, and then return the tools and accessories to their proper storage. Research a new technology recently developed for the construction industry. Write persuasively to convince an employer how the use of the technology could benefit the company, citing evidence from resources. For example, describe how a new power tool could improve efficiency and reduce muscle fatigue for a construction team. (TN Reading 2, 3, 4; TN Writing 1, 7) | Construction Technology 68104-09 Introduction to Masonry SE/TE: 10.0.0-10.6.0 Construction Technology 68109-09 Roofing Applications SE/TE: 3.0.0-13.2.0 Construction Technology 68110-09 Exterior Finishing Framing SE/TE: 7.2.0-7.3.0, 7.12.0-7.17.0 Construction Technology 68116-09 Plastic Pipe and Fittings SE/TE: 4.0.0-4.3.5 See TE Addendum |
| Construction Industry Principles | |
| 5) Locate and assess the Tennessee Contractor's Licensing Board's website and analyze the policies and requirements for construction work in Tennessee. Explain how such policies impact local construction businesses. (TN Reading 2, 3, 4) | See TE Addendum |
| 6) Consult a variety of sources to describe alternatives to traditional project delivery methods, such as the design-build and construction management-related methods, distinguishing among the roles and relationships of various construction personnel in each scenario. Examine the project delivery method of an actual company. Develop a company profile with supporting graphics the company could share with a client describing the services provided and explaining the building delivery method used by the company. (TN Reading 2, 3, 4, 5, 7; TN Writing 2, 4, 8) | 44101-08 Introduction to Project Management: 7.0.0-7.4.0 See SE/TE Addendum |
| Roofing Systems | |
| 7) Define and describe the framing components of gable and hip roofs such as the ridgeboard, plates, and types of rafters. For example, create a graphic illustration showing the roles of each component and how they work together in a roof framing system. (TN Reading 3, 4, 7; NCCER 68108-09) | Construction Technology 68108-09 Roof Framing SE/TE: 2.0.0, 3.0.0 |
| 8) Read and interpret drawings to determine roof framing requirements, such as calculating the length of a rafter based on the desired pitch and estimating the materials needed to frame and sheath a roof. For example, use a speed square to lay out a common rafter on a piece of lumber. (TN Reading 2, 3, 4; TN Math N-Q, G-SRT; NCCER 68108-09) | Construction Technology 68108-09 Roof Framing SE/TE: 3.1.0-3.2.3, 7.0.0-7.1.0 |
| 9) Work in teams to construct a roof frame assembly by implementing required safety techniques, tools, and equipment to accurately measure, lay out, construct, and sheath a roof frame. For example, frame a gable roof with an opening. (TN Reading 3; TN Math N-Q; NCCER 68108-09) | Construction Technology 68108-09 Roof Framing SE/TE: 3.0.0-7.1.0 See TE Addendum |

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| 10) Compare and contrast different procedures to frame a roof. For example, describe the benefits of using prefabricated trusses in place of framing with rafters on site. Outline the major similarities and differences in each and write persuasively to describe why using either prefabricated trusses or framing with rafters is more beneficial for a specific project. (TN Reading 2, 3, 4; TN Writing 1, 4, 7, 9; NCCER 68108-09) | Construction Technology 68108-09 Roof Framing SE/TE: Entire module See TE Addendum |
| 11) Compare and contrast the materials, methods, and procedures for roofing with fiberglass shingles with other roofing materials such as wood shingles, metal roofing, and membrane-type roofing systems. Perform a cost analysis for a client to help the client choose between two roofing materials for a specific project given the site location, project budget, environmental considerations, and other factors. (TN Reading 2, 3, 4; NCCER 68109-09) | Construction Technology 68109-09 Roofing Applications SE/TE: 2.0.0-2.12.0 See TE Addendum |
| 12) Apply the appropriate tools, equipment, and procedures to safely install shingles on a roof including strategies for watertight installation, using quantitative reasoning and geometric formulas where applicable. For example, interpret construction documents to estimate the roofing materials needed to install fiberglass shingles on a gable roof. After preparing the roof with underlayment, flashing, and other preparation materials, install fiberglass shingles. (TN Reading 3; TN Math N-Q; NCCER 68109-09) | Construction Technology 68109-09 Roofing Applications SE/TE: 6.0.0-6.4.5 |
| Exterior Finishing | |
| 13) Examine a wall section drawing for a specific building. Identify, define, and explain the function of each component including wall insulation, flashing, and the structure of the cornice. Draw from textbooks and other resources to annotate the wall section drawing with notes explaining the purpose of each component. (TN Reading 1, 2, 3, 4, 5, 7; TN Writing 2, 4, 9; NCCER 68110-09) | Construction Technology 68110-09 Exterior Finishing SE/TE: 3.0.0-4.0.0 See TE Addendum |
| 14) Interpret wall section drawings to safely construct a cornice. For example, accurately measure materials, employ tools, and follow procedures to build a box cornice, checking for accuracy in each step. (TN Reading 3; TN Math N-Q; NCCER 68110-09) | Construction Technology 68110-09 Exterior Finishing SE/TE: 4.0.0-4.2.0 See TE Addendum |
| 15) Analyze various finish systems used to sheath a building, including but not limited to wood siding, fiber-cement siding, vinyl siding, metal siding, stucco, and masonry veneer finishes. Perform a case study of three different buildings in the community which are sheathed in different ways, hypothesizing why the different materials and methods were selected for each. (TN Reading 2, 3, 4; NCCER 68110-09) | Construction Technology 68110-09 Exterior Finishing SE/TE: 5.0.0-10.0.0 See TE Addendum |

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| 16) Estimate the siding materials needed to cover a building utilizing mathematical principles such as area formulas and quantitative reasoning. Utilize the appropriate procedures, tools, and materials to install various types of siding. For example, identify three siding methods that are commonly used in the area and demonstrate the ability to plan the installation of and install each. (TN Reading 3; Math N-Q; NCCER 68110-09) | Construction Technology 68110-09 Exterior Finishing SE/TE: 5.0.0-10.0.0 |
| Basic Stair Framing Systems | |
| 17) Analyze the components of a stair system. Read and interpret construction drawings to determine stair system requirements such as the total rise, number and size of risers, and number and size of treads. Based on stated requirements, estimate the amount of material needed to frame a stair assembly. (TN Reading 2, 3, 4, 5, 7; TN Math N-Q; NCCER 68111-09) | Construction Technology 68111-09 Basic Stair Layout SE/TE: 2.0.0-5.4.0 |
| 18) Apply the appropriate tools, equipment, and procedures to safely build a small stair unit, demonstrating proper procedures for laying out and cutting stringers, risers, and treads. (TN Reading 3; TN Math N-Q; NCCER 68111-09) | Construction Technology 68111-09 Basic Stair Layout SE/TE: 2.0.0-5.4.0 See TE Addendum |
| Introduction to Masonry Systems | |
| 19) Describe the materials and methods used in modern masonry. Distinguish between masonry units made of clay products (i.e. brick) and masonry units made of concrete (i.e. block), analyzing the composition and structure of common units. Differentiate between the types of masonry construction, such as solid masonry walls, cavity walls, and veneer walls, citing examples of when each is used. Apply the knowledge to examine two different masonry constructions found in the school or community. Create a visual display with supporting text comparing the composition and construction methods of each. (TN Reading 1, 2, 3, 4, 5, 7; TN Writing 2; NCCER 68104-09) | Construction Technology 68104-09 Introduction to Masonry SE/TE: 3.0.0-7.1.0 See TE Addendum |
| 20) Describe and demonstrate the procedures and techniques of basic bricklaying, including preparing mortar, laying a mortar bed, and laying bricks. Apply the appropriate tools, equipment, and procedures to safely mix mortar and properly use a trowel to spread and furrow bed joints and butter head joints. (TN Reading 3, 4; NCCER 68104-09) | Construction Technology 68104-09 Introduction to Masonry SE/TE: 7.2.0, 10.0.0-11.10.0 |
| Plumbing Systems | |

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| 21) Study a schematic plan of a typical community sewer system. Citing evidence from a technical description or actual observation of a system, explain how waste moves through a drain, waste, and vent system from the fixture to the environment. Create a graphic illustration to represent the movement of waste from one component to the others in the system. For example, create a basic diagram of how the waste generated by a clean-up sink in the classroom travels to the local sewage treatment plant. (TN Reading 2, 3, 4, 7; NCCER 68115-09) | Construction Technology 68115-09 Introduction to Drain, Waste, and Vent (DWV) Systems SE/TE: 1.0.0-4.0.0, 5.0.0-5.1.0 See TE Addendum |
| 22) Demonstrate understanding of the specific roles of various plumbing components in a drain, waste, and vent system by sketching a system model. Label the components, and include a written description of the function of each. Be able to describe the physical principles involved such as gravity and pressure. (TN Reading 2, 3, 4, 5, 7; TN Writing 2; TN Physical Science 1; NCCER 68115-09) | Construction Technology 68115-09 Introduction to Drain, Waste, and Vent (DWV) Systems SE/TE: 1.0.0-5.1.0 |
| 23) Analyze the function of a trap by examining a drain, waste, and vent system whose trap has lost its seal. Diagnose and explain the cause and determine the appropriate solution, citing evidence from textbooks or technical manuals in order to justify why the chosen solution is preferable or more effective than another. (TN Reading 1, 2, 4, 5; TN Writing 2, 9; NCCER 68115-09) | Construction Technology 68115-09 Introduction to Drain, Waste, and Vent (DWV) Systems SE/TE: 4.0.0-4.4.8 |
| 24) Determine common requirements found in plumbing codes and explain why the codes are necessary; include the importance of proper plumbing on human health. Examine a case in which poor plumbing contributed to the outbreak of disease in a community. Write an explanatory text to illustrate the problem and describe how it could have been prevented with proper plumbing applications. (TN Reading 2, 4, 5; TN Writing 2; NCCER 68115-09) | Construction Technology 68115-09 Introduction to Drain, Waste, and Vent (DWV) Systems SE/TE: 13.0.0-13.2.0 See TE Addendum |
| 25) Compare and contrast the material properties and uses of the various types of plastic and copper piping, including storing and handling, safety issues, and types of fitting and hanging equipment. Describe the factors influencing the decision to use plastic or copper piping in a residence. Demonstrate the ability to select the correct materials, tools, and PPE to complete both plastic and copper piping projects by creating a list of the items needed for a specific installation. For example, for a residential bathroom sink drain, create a list of the materials, tools, and equipment needed to install the drain. (TN Reading 2, 3, 4, 7; TN Writing 4, 9; NCCER 6811-09, 68117-09) | Construction Technology 68116-09 Plastic Pipe and Fittings SE/TE: Entire Module Construction Technology 68117-09 Copper Pipe and Fittings SE/TE: Entire Module |

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| 26) Employ tools and procedures to safely measure, cut, ream, and join plastic and copper piping and fittings. For example, accurately measure PVC pipe, use a miter box and handsaw to cut pieces of pipe, ream and chamfer the ends, and join the pipe using solvent cement. (TN Reading 3, 4; TN Math N-Q; NCCER 6811-09, 68117-09) | Construction Technology 68116-09 Plastic Pipe and Fittings SE/TE: 4.0.0-4.3.5 Construction Technology 68117-09 Copper Pipe and Fittings SE/TE: 4.0.0-4.5.0 |
| Principles of Electrical Systems | |
| 27) Evaluate and recommend proper electrical hardware for a residential building. For example, for a residential dwelling with a given floor plan and schedule of major appliances, determine the size of the electrical service by referring to the National Electrical Code to select the service-entrance equipment, such as conductors, panelboard, and protective devices. Steps should include: calculating the load for lighting, small appliances, and large appliances; and determining the number of branch circuits required. Describe the installation rules pertaining to dedicated circuits as applied to various equipment such as ranges, dryers, and HVAC systems. (TN Reading 2, 3, 4, 7; TN Math N-Q; TN Physical Science 2; NCCER 68113-09) | Construction Technology 68113-09 Residential Electrical Services SE/TE: Entire Module |
| 28) Utilize the proper tools, equipment, and procedures to select and safely perform basic installation of device boxes according to drawings, specifications, and code requirements. (TN Reading 3, 4, 6, 9; NCCER 68113-09; 26106-14) | Construction Technology 68113-09 Residential Electrical Services SE/TE: 12.0.0-13.1.0 Optional Supplement- Electrical Level One: 26106-14 Device Boxes SE/TE: Entire Module |
| 29) Utilizing test equipment such as a voltmeter, inspect and test an electrical wiring system for compliance according to drawings, specifications, and code requirements. (TN Reading 3, 4, 6; TN Math N-Q; TN Physical Science 2; TN Physics 5; NCCER 26112-14) | Electrical Level One: 26112-14 Electrical Test Equipment SE/TE: Entire Module |
| Introduction to Heating, Ventilation, and Air Conditioning Systems (HVAC) | |
| 30) Demonstrate understanding of the principles of heating, ventilation and air conditioning systems. Use graphic illustrations and supporting text to describe the structure and function of each system. (TN Reading 2, 3, 4, 5, 7; TN Writing 2; NCCER 68114-09) | Construction Technology 68114-09 Introduction to HVAC SE/TE: 2.0.0-4.0.0 |
| 31) Examine the regulations which impact the work of HVAC technicians, such as the Clean Air Act and EPA guidelines. Create a brochure to inform an individual contemplating beginning an HVAC business of these regulations, explaining key considerations and citing resources. (TN Reading 1, 2, 4; TN Writing 2, 4, 9; NCCER 68114-09) | Construction Technology 68114-09 Introduction to HVAC SE/TE: 5.0.0-5.4.0 |
| Construction Drawings & Specifications | |

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| 32) Explain the relationship between construction drawings and specifications. For example, describe how both the construction drawings and specifications provide information about the exterior sheathing indicated for a building. Examine construction drawings and specifications to determine the requirements of the sheathing for a given part of a building, and verify with measurements and other sources as needed. (TN Reading 1, 2, 4, 5, 6, 7, 8; NCCER 44105-08) | See SE/TE Addendum Project Management: 44105-08 Construction Documents SE/TE: 4.0.0-4.3.0 |
| 33) Describe processes by which construction professionals obtain clarification from architects regarding construction documents, such as by the use of requests for information (RFI's). Write a request for information (RFI), as would a construction professional to an architect to request clarification for a detail of the construction documents, such as the selection of a product. (TN Writing 4; NCCER 44105-08) | See SE/TE Addendum Project Management: 44105-08 Construction Documents SE/TE: 7.0.0-7.4.0 See SE/TE Addendum 00105-15: Introduction to Construction Drawings: 1.3.2 |
| Business & Project Management | |
| 34) Establish and implement specific goals to manage project assignments in a timely manner, including organizing teams to effectively manage assignments, monitoring and reporting on project progress, and evaluating a completed project according to client requirements. For example, inspect and critique a team member's work, providing constructive feedback for improvement. Similarly, respond to constructive feedback from a team member to improve project outcomes and meet project goals. (TN Reading 2, 6; TN Writing 2) | See SE/TE Addendum 44101-08 Introduction to Project Management: 3.1.0-3.6.0 See SE/TE Addendum 44105-08 Construction Documents: 7.0.0-7.4.0 See SE/TE Addendum 00108-15 Basic Employability Skills: 3.3.0-3.3.3, 3.5.0-3.5.1 |
| 35) Perform estimating and scheduling techniques for a long-term project, including calculating material quantities and cost (including tax) and labor cost to complete a bid sheet; scheduling construction activities using a flow chart; and determining amounts to be charged to the client at various intervals throughout the project. (TN Reading 3, 7; TN Writing 4; TN Math N-Q) | See SE/TE Addendum 44101-08 Introduction to Project Management: 6.2.0-7.0.0 See SE/TE Addendum 44105-08 Construction Documents: 73.1.0-3.4.0 See addendum |
| 36) Utilize technology to write and share periodical reports (weekly, monthly, etc.) to provide others with information about progress during construction activities as would a project manager to a supervisor. Summarize activities in a narrative form including overall progress in relationship to a previously planned schedule. (TN Reading 3; TN Writing 2, 4, 6, 10) | See SE/TE Addendum 44101-08 Introduction to Project Management: 3.5.0 See SE/TE Addendum 44105-08 Construction Documents: 7.0.0 See addendum |
| Portfolio | |

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| 37) Update materials from coursework to add to the portfolio started in <i>Fundamentals of Construction</i> and <i>Residential & Commercial Construction I</i> . Continually reflect on coursework experiences and revise and refine the career plan generated in prior courses, using technology where appropriate. Include photographs or illustrations and written descriptions of sequential progress in construction projects. (TN Writing 2, 4, 5, 6) | N/A |