

# NORTH CAROLINA CAREER AND TECHNICAL EDUCATION STANDARDS

## Trade, Technology, Engineering, and Industrial Education

**Grade:** Grade 9 - 12

**Course:** Drafting II - Architectural **Updated**

**NCCTE.2020.IC62** - Drafting II - Architectural

**NCCTE.2020.IC62.01.00** - Understand Architectural Styles and Industry Terms.

**NCCTE.2020.IC62.01.01** - Understand various architectural styles.

**NCCTE.2020.IC62.01.02** - Understand terms related to selected styles of residential architecture and create a collection of illustrations or a presentation that demonstrates the various elements of residential styles.

**NCCTE.2020.IC62.01.03** - Understand architectural industry terms.

**NCCTE.2020.IC62.02.00** - Apply procedures to create Floor Plans.

**NCCTE.2020.IC62.02.01** - Apply terms and definitions and accepted principles related to single-level residential space planning.

**NCCTE.2020.IC62.02.02** - Apply residential door and window types, symbols for doors, windows and room identification.

**NCCTE.2020.IC62.02.03** - Apply terms and definitions related to single-level residential space planning.

**NCCTE.2020.IC62.02.04** - Apply accepted principles of single-view residential space planning.

**NCCTE.2020.IC62.02.05** - Apply door and window types.

**NCCTE.2020.IC62.02.06** - Apply floor plan symbols.

**NCCTE.2020.IC62.02.07** - Apply procedures to draw a single-level residential floor plan using 3D CAD, BIM software, for example: Revit Architecture.

**NCCTE.2020.IC62.02.08** - Apply procedures to annotate a single-level residential floor plan using 3D CAD, BIM software, for example: Revit Architecture.

**NCCTE.2020.IC62.03.00** - Apply procedures to create Foundation plans and Levels of a Building.

**NCCTE.2020.IC62.03.01** - Apply terminology related to common foundation plans.

**NCCTE.2020.IC62.03.02** - Apply footing and foundation wall construction types.

**NCCTE.2020.IC62.03.03** - Apply the purpose of a foundation plan and describe its features.

**NCCTE.2020.IC62.03.04** - Apply concepts of wood sill and floor construction.

**NCCTE.2020.IC62.03.05** - Apply procedures to draw a foundation plan using 3D CAD, BIM software.

**NCCTE.2020.IC62.04.00** - Apply procedures to create Simple Roof and Floor System Designs.

**NCCTE.2020.IC62.04.01** - Understand terms and definitions related to roof plans.

**NCCTE.2020.IC62.04.02** - Understand concepts of roof construction including roof types: gable, hip, roof slope.

**NCCTE.2020.IC62.04.03** - Understand concepts of floor systems.

**NCCTE.2020.IC62.04.04** - Apply procedures to draw roof and floor systems using 3D CAD, BIM software.



## NORTH CAROLINA CAREER AND TECHNICAL EDUCATION STANDARDS

**NCCTE.2020.IC62.05.00** - Apply procedures for drawing View types.

**NCCTE.2020.IC62.05.01** - Apply terms and definitions related to construction drawing view types: Plan views, Section views, Elevation views, 3D Views, and Detail views.

**NCCTE.2020.IC62.05.02** - Apply terms and definitions related to wall sections and details.

**NCCTE.2020.IC62.05.03** - Apply concepts of wood frame wall construction.

**NCCTE.2020.IC62.05.04** - Apply the purpose and features of a wall section, noting insulation and vapor barrier materials and construction.

**NCCTE.2020.IC62.05.05** - Apply terms, purpose, features and definitions related to exterior elevations and building sections.

**NCCTE.2020.IC62.05.06** - Apply procedures to draw typical wall sections using 3D CAD, BIM software.

**NCCTE.2020.IC62.05.07** - Apply procedures to draw exterior elevations and building sections using 3D CAD, BIM software.

**NCCTE.2020.IC62.06.00** - Apply Procedures to Complete a Residential Construction Documents (CD) Set.

**NCCTE.2020.IC62.06.01** - Apply key components/sheets needed, sheet numbering, naming conventions for a CD set.

**NCCTE.2020.IC62.06.02** - Apply schedules and labels used in CD Set.

**NCCTE.2020.IC62.06.03** - Apply CAD printing and set up.

**NCCTE.2020.IC62.06.04** - Apply procedures to complete a residential Construction Documents Set using 3D CAD, BIM software.

