

NORTH CAROLINA CAREER AND TECHNICAL EDUCATION STANDARDS

Trade, Technology, Engineering, and Industrial Education

Grade: Grade 9 - 12

Course: Drafting I

NCCTE.IC61 - Drafting I

NCCTE.IC61.01.00 - Understand Fundamental Concepts and Trends of Drafting.

NCCTE.IC61.01.01 - Understand BIM, and Rapid Prototyping.

NCCTE.IC61.01.02 - Understand Industrial Design, Sustainable Design, and LEED.

NCCTE.IC61.01.03 - Understand Career Options.

NCCTE.IC61.02.00 - Understand the Ideation process. (big 6 in academia) (SUPPLEMENTAL)

NCCTE.IC61.03.00 - Apply sketching skills and techniques. (Architectural & Engineering)

NCCTE.IC61.03.01 - Apply Rough sketching (lettering for clarity, uppercase caps).

NCCTE.IC61.03.02 - Apply 2D sketching - Single and Multi-view.

NCCTE.IC61.03.03 - Apply 3D sketching - Pictorials (isometric, oblique).

NCCTE.IC61.04.00 - Apply CAD User Skills (with use of the following CAD software).

NCCTE.IC61.04.01 - Apply procedures for working with the User interface (navigation tools).

NCCTE.IC61.04.02 - Apply procedures for creating drawings (coordinates and draw tools). Review Geometric Shapes.

NCCTE.IC61.04.03 - Apply procedures for manipulating objects (grips, object selection, drawing aids).

NCCTE.IC61.04.04 - Apply procedures for working with the drawing organization and inquiry commands (layers).

NCCTE.IC61.04.05 - Apply procedures for altering objects (modifying).

NCCTE.IC61.04.06 - Apply procedures for working with layouts (templates, viewports).

NCCTE.IC61.04.07 - Apply procedures for annotating the drawing (adding Text).

NCCTE.IC61.04.08 - Apply procedures for dimensioning.

NCCTE.IC61.04.09 - Apply procedures for hatching objects (Drawing enhancements).

NCCTE.IC61.04.10 - Apply procedures for working with reusable content (blocks).

NCCTE.IC61.04.11 - Apply procedures for creating Additional drawing objects (polylines splines ellipse).

NCCTE.IC61.04.12 - Apply procedures for plotting the drawing.