Kentucky CTE

Advanced Manufacturing: Welding Technology: Basic Blueprint Reading 499920 (2026–2027)

Practice and perform safe shop procedures at all times. 1

1 Practice and perform safe shop procedures at all times. 1

Apply the technical math required for employment opportunities. 2

2 Apply the technical math required for employment opportunities. 2

Perform all duties with emphasis on integrity, responsibility, quality, discipline and teamwork. 3

3 Perform all duties with emphasis on integrity, responsibility, quality, discipline and teamwork. 3

Review math concepts (fractions and decimals). 4

4 Review math concepts (fractions and decimals). 4

Identify the alphabet of lines. 5

5 Identify the alphabet of lines. 5

Identify multiple views. 6

6 Identify multiple views. 6

Arrange multiple views. 7

7 Arrange multiple views. 7

Arrange two-view dra

8 Arrange two-view drawings. 8

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Identify one-view drawings. 9	9 Identify one-view drawings. 9
Arrange and identify auxiliary views. 10	10 Arrange and identify auxiliary views. 10
Demonstrate and use the size and location dimensions. 11	11 Demonstrate and use the size and location dimensions. 11
Demonstrate proper dimensions of cylinders and arcs. 12	12 Demonstrate proper dimensions of cylinders and arcs. 12
Size dimensions of holes and angles. 13	13 Size dimensions of holes and angles. 13
Locate dimensions for centering of holes, points, and centers. 14	14 Locate dimensions for centering of holes, points, and centers. 14
Interpret the baseline dimensions on drawings. 15	15 Interpret the baseline dimensions on drawings. 15
Identify half, full, and removed sections. 16	16 Identify half, full, and removed sections. 16
Identify electrical schematic and diagram symbols. 17	17 Identify electrical schematic and diagram symbols. 17
Identify welding symbols and equipment. 18	18 Identify welding symbols and equipment. 18
Interpret ordinate and tabular dimensions. 19	19 Interpret ordinate and tabular dimensions. 19
Set tolerances using geometric dimensioning techniques. 20	20 Set tolerances using geometric dimensioning techniques. 20
Sk irr	Sketch parts with irregular shapes. 21

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Sketch oblique views of various parts. 22	22 Sketch oblique views of various parts. 22
Sketch and dimension shop drawings. 23	23 Sketch and dimension shop drawings. 23
Dimension parts using shop notes. 24	24 Dimension parts using shop notes. 24
Calculate tolerances. 25	25 Calculate tolerances. 25
Identify labeling of various screw threads. 26	26 Identify labeling of various screw threads. 26
Calculate tapers and machined surfaces. 27	27 Calculate tapers and machined surfaces. 27
Interpret connections and flow of various electrical, hydraulic, and pneumatic schematics and diagrams. 28	28 Interpret connections and flow of various electrical, hydraulic, and pneumatic schematics and diagrams. 28