Kentucky CTE

Advanced Manufacturing: Metal Fabrication: Sheet Metal II – B 480820 (2026–2027)

Apply safety rules and procedures. 1

1 Apply safety rules and procedures. 1

Use and care for tools and equipment. 2

2 Use and care for tools and equipment. 2

Interpret building trade blueprints. 3

3 Interpret building trade blueprints. 3

Draw advanced sheet metal assemblies. 4

4 Draw advanced sheet metal assemblies. 4

Use the radial line method to lay out advanced sheet metal patterns. 5

5 Use the radial line method to lay out advanced sheet metal patterns. 5

Use the triangular method to lay out advanced sheet metal patterns. 6

6 Use the triangular method to lay out advanced sheet metal patterns. 6

Use the parallel line method to lay out advanced sheet metal patterns. 7

7 Use the parallel line method to lay out advanced sheet metal patterns. 7

Select sheet metal gauges for patterns. 8

8 Select sheet metal gauges for patterns. 8

Cut sheet metal with avi

9 Cut sheet metal with aviation snips. 9

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Cut sheet metal with straight snips. 10	10 Cut sheet metal with straight snips. 10
Cut sheet metal with squaring shears. 11	11 Cut sheet metal with squaring shears. 11
Turn complicated edges of sheet metal elbow assemblies with an elbow-turning machine. 12	12 Turn complicated edges of sheet metal elbow assemblies with an elbow-turning machine. 12
Fabricate complicated residential and commercial heating and air conditioning ductwork. 13	13 Fabricate complicated residential and commercial heating and air conditioning ductwork. 13
Install heating, ventilation, and air conditioning ducts. 14	14 Install heating, ventilation, and air conditioning ducts. 14
Install machine guards and assemblies. 15	15 Install machine guards and assemblies. 15
Cut sheet metal parts on the power shear. 16	16 Cut sheet metal parts on the power shear. 16
Use mechanical and computerized shear gauges. 17	17 Use mechanical and computerized shear gauges. 17
Cut sheet metal products on the band saw. 18	18 Cut sheet metal products on the band saw. 18
Use die applications on the power brake. 19	19 Use die applications on the power brake. 19
Perform alignment and die setting of the power brake. 20	20 Perform alignment and die setting of the power brake. 20
Be we	Be introduced to MIG welding. 21

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Use CNC Controlled Punch Press. 22

22 Use CNC Controlled Punch Press. 22

Program CNC Controlled Punch Press. 23

23 Program CNC Controlled Punch Press. 23