Kentucky CTE

Advanced Manufacturing: Metal Fabrication: Parallel Line Layout 480813 (2026–2027)

Identify the purposes for parallel line layout. 1

1 Identify the purposes for parallel line layout. 1

Identify parts fabricated with parallel line layout methods. 2

2 Identify parts fabricated with parallel line layout methods. 2

Use the parallel line method to lay out sheet metal patterns. 3

3 Use the parallel line method to lay out sheet metal patterns. 3

Identify hand tools required for parallel line layout development. 4

4 Identify hand tools required for parallel line layout development. 4

Measure sheet metal to determine the available space for assembly pattern. 5

5 Measure sheet metal to determine the available space for assembly pattern. 5

Select the appropriate sheet metal gauge. 6

6 Select the appropriate sheet metal gauge. 6

Form sheet metal assemblies with bench stakes and mallets. 7

7 Form sheet metal assemblies with bench stakes and mallets. 7

Introduction and math review (fractions and de

8 Introduction and math review (fractions and decimals). 8

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Identify line types used in combinations. 9	9 Identify line types used in combinations. 9
Identify multiple views. 10	10 Identify multiple views. 10
Arrange multiple views. 11	11 Arrange multiple views. 11
Demonstrate visualizing techniques of multiple views. 12	12 Demonstrate visualizing techniques of multiple views. 12
Identify one-view drawing. 13	13 Identify one-view drawing. 13
Arrange and identify auxiliary views. 14	14 Arrange and identify auxiliary views. 14
Demonstrate the use of size and location dimensions. 15	15 Demonstrate the use of size and location dimensions. 15
Identify standard listings on working drawings. 16	16 Identify standard listings on working drawings. 16
Size dimensions of holes and angles. 17	17 Size dimensions of holes and angles. 17
Locate dimensions for centering of holes, points, and centers. 18	18 Locate dimensions for centering of holes, points, and centers. 18
Identify half, full, and removed sections. 19	19 Identify half, full, and removed sections. 19
Identify usages for chamfers and interpret sizes. 20	20 Identify usages for chamfers and interpret sizes. 20
Sketch oblique views of various parts. 21	21 Sketch oblique views of various parts. 21

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Sketch and dimension shop drawings. 22

22 **Sketch and dimension shop drawings.** 22