

# Metal Fabricator (Fitter) Harmonized Level 1

## STANDARDIZED LEVEL EXAM (SLE) BREAKDOWN

The following table shows the number of questions per General Area of Competency (GAC) and Competency on the *Metal Fabricator (Fitter) Harmonized Level 1 SLE*.

**Number of questions on each exam: 108**

| Level 1 GAC/Competency  | #         |
|---|-----------|
| <b>A. PERFORM SAFETY-RELATED FUNCTIONS</b>                    | <b>11</b> |
| A1. Maintain safe work environment                            | 11        |
| <b>B. USE TOOLS AND EQUIPMENT</b>                             | <b>20</b> |
| B1. Use hand, power, layout and measuring tools and equipment | 7         |
| B2. Use stationary machinery                                  | 5         |
| B3. Use thermal cutting and welding equipment                 | 6         |
| B4. Use access equipment                                      | 2         |
| <b>C. INTERPRET PLANS, DRAWINGS, AND SPECIFICATIONS</b>       | <b>18</b> |
| C1. Interpret blueprints                                      | 9         |
| C2. Interpret structural steel drawings                       | 9         |
| <b>D. PERFORM QUALITY CONTROL</b>                             | <b>8</b>  |
| D1. Perform inspection  | 3         |
| D4. Apply principles of metallurgy                            | 2         |
| D5. Control distortion  | 3         |
| <b>E. HANDLE MATERIALS</b>                                    | <b>9</b>  |
| E2. Calculate mass for structural steel                       | 2         |
| E3. Apply rigging practices                                   | 3         |
| E4. Operate material handling equipment                       | 4         |
| <b>F. PERFORM TRADE MATH AND LAYOUT</b>                       | <b>19</b> |
| F1. Perform line development                                  | 5         |
| F2. Calculate bending allowances and stretch outs             | 7         |
| F3. Calculate diagonals, volume, mass and capacity            | 7         |
| <b>G. FORM MATERIALS</b>                                      | <b>0</b>  |
| G5. Fabricate plate   | 0         |

*Metal Fabricator (Fitter): Harmonized Level 1 SLE Breakdown*

*January 1, 2023*

| Level 1 GAC/Competency               | #          |
|--------------------------------------|------------|
| <b>H. FABRICATE COMPONENTS</b>       | <b>11</b>  |
| H1. Construct templates and jigs     | 6          |
| H6. Fabricate structural components  | 5          |
| <b>I. PERFORM WELDING ACTIVITIES</b> | <b>12</b>  |
| I1. Apply weld symbols               | 6          |
| I2. Use welding processes            | 6          |
| <b>Total:</b>                        | <b>108</b> |