

Metal Fabricator (Fitter) Harmonized Level 2

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 2 SLE*.

Number of questions on each exam: 94

| Level 2 GAC/Competency | # |
|---|-----------|
| A. PERFORM SAFETY-RELATED FUNCTIONS | 2 |
| A1. Maintain safe work environment | 2 |
| B. USE TOOLS AND EQUIPMENT | 5 |
| B3. Use thermal cutting and welding equipment | 2 |
| B5. Use computer numerical controlled (CNC) equipment | 3 |
| C. INTERPRET PLANS, DRAWINGS, AND SPECIFICATIONS | 23 |
| C1. Interpret blueprints | 10 |
| C2. Interpret structural steel drawings | 13 |
| D. PERFORM QUALITY CONTROL | 11 |
| D2. Verify structural measurements, welds and layout | 4 |
| D3. Track structural materials, consumables and parts for traceability | 3 |
| D4. Apply principles of metallurgy | 2 |
| D5. Control distortion | 2 |
| F. PERFORM TRADE MATH AND LAYOUT | 19 |
| F1. Perform line development | 6 |
| F2. Calculate bending allowances and stretch outs | 6 |
| F3. Calculate diagonals, volume, mass and capacity | 7 |
| G. FORM MATERIALS | 12 |
| G1. Form material using plate rolls | 3 |
| G2. Form material using shape rolls | 1 |
| G3. Form material using a brake press | 4 |
| G4. Form material using computer numerical controlled (CNC) brake press | 1 |
| G5. Fabricate plate | 3 |
| H. FABRICATE COMPONENTS | 17 |
| H1. Construct templates and jigs | 1 |

Metal Fabricator (Fitter): Harmonized Level 2 SLE Breakdown

January 1, 2023

| Level 2 GAC/Competency | # |
|--|-----------|
| H2. Construct sub-components | 3 |
| H3. Determine proper sequence for assembly and welding | 3 |
| H4. Assemble sub-components and components | 3 |
| H5. Set fabricated component in place | 3 |
| H6. Fabricate structural components | 4 |
| I. PERFORM WELDING ACTIVITIES | 5 |
| I1. Apply weld symbols | 3 |
| I2. Use welding processes | 2 |
| Total: | 94 |