

Metal Fabricator – Competency Changes

Current Program Outline Competencies found in Harmonized Level 2

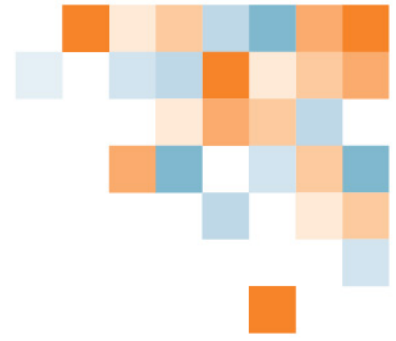
This document is to show the **60 additional hours** from current level 2 to harmonized level 2

Green = Added

Red = Removed/Moved/Combined

210 hours
(Increased by 60 hours)

B	Use Safe Work Practices
B6	Describe safe work practices for confined work spaces (CL 1 → HL 2)
C	Solve Trade Math Problems
C8	Solves complex problems using geometric construction
C9	Solve complex problems using Pythagorean theory
C10	Solve problems involving weight, mass and the capacity of vessels (CL 2 → HL 1)
C11	Calculate costs of materials to complete assemblies
D	Use Trade Tools
D4	Use specialized measuring tools (CL 4 → HL 1 & 2)
E	Use Shop Equipment
E2	Use the hydraulic brake press
E3	Use the power plate rolls
E7	Use the thread cutting machine
E8	Use the power shape rollers (power angle rolls)
E10	Use a CNC brake press (CL 4 → HL 2 & 3)
F	Burn and Weld Metals
F7	Use air-arc gouging/cutting methods
F8	Use the plasma arc cutter
F9	Use semi-automatic welding machines
G	Read Drawings
G5	Interpret weld symbols
G8	Draw secondary views of complex objects
G9	Interpret complex multi-view show drawings
G13	Describe electronic detailing (CL 3 → HL 2)
G14	Interpret computer generated shop drawings (CL 4 → HL 2 & 3)
G15	Interpret specialized structural, erection and detail drawings (CL 4 → HL 2 & 3)
H	Use Material Handling Equipment
H3	Use ladders and scaffolding (CL 2 → HL 1)



I	Use Structural Layout Techniques
I3	Layout complex templates from a shop drawing
I4	Describe standard allowances, required accuracy and shop tolerances
I5	Identify component parts
I6	Describe the process operation
I7	Layout a set of stair stringers
J	Develop Plate and Structural Patterns
J4	Integrate radial and parallel line development
J5	Develop shop layout and processing for plate and structural sections (CL 2 → HL 2 & 3)
J6	Develop various patterns using radial line development
L	Develop Plate and Structural Patterns
L3	Layout and fit a structural beam
L4	Describe modern alignment methods
L5	Fabricate a simple hopper
L7	Develop and fit branches on a cone
L10	Layout complex templates from a machine detail drawing
L11	Fabricate a reduced tank with fittings (CL 3 → HL 2)
L14	Plan, cost and fabricate an eccentric hopper (CL 3 → HL 2)
L15	Apply work simplification methods (CL 4 → HL 2)
L16	Differentiate types of structural steel fasteners (CL 4 → HL 2)
O	Develop Plate and Structural Patterns
O1	Establish area for installation (CL 4 → HL 2)
O4	Determine required consumables (CL 4 → HL 2 & 3)
O5	Confirm field dimensions (CL 4 → HL 2)
O6	Describe installation of components (CL 4 → HL 2 & 3)

LEGEND

CL - Current Level

HL - Harmonized Level