

Level Chart: Welder - Technical Training

| Level One (8 Weeks) | | | | Level Two (8 Weeks) | | | |
|-----------------------|---------------------------------------------------------------------------------|------------------|-----|---------------------|--------------------------------------------------------|------------------|-----|
| Code | Unit Title | T | P | Code | Unit Title | T | P |
| A1 | Trade Safety Awareness | 14 | 0 | D2 | Quality Assurance | 14 | 0 |
| A2 | Orientation I: Structure/Scope of Trade | 7 | 0 | D4 | Shielded Metal Arc Welding (SMAW) II | 24 | 40 |
| A3 | Equipment | 21 | 0 | D7 | Gas Metal Arc Welding (GMAW) II | 17 | 20 |
| D1 | Introduction to Welding Processes | 21 | 0 | D9 | Gas Tungsten Arc Welding (GTAW) I | 21 | 45 |
| D3 | Shielded Metal Arc Welding (SMAW) I | 14 | 60 | C1 | Cutting Processes | 5 | 12 |
| D6 | Gas Metal Arc Welding (GMAW) I | 7 | 28 | B1 | Fabrication Fundamentals | 36 | 6 |
| D11 | Flux Core Arc Welding (FCAW) I | 14 | 56 | C4 | Practicum I | 0 | 40 |
| C3 | Oxy-fuel Welding | 3 | 7 | E2.A | HORIZONTAL SMAW (SHIELDED METAL ARC WELDING) PRACTICAL | 0 | 0 |
| B3 | Trade Problems | 28 | 0 | E2.B | HORIZONTAL GMAW (GAS METAL ARC WELD) PRACTICAL | 0 | 0 |
| E1.A | OXY/ACETYLENE CUTTING PRACTICAL | 0 | 0 | E2.C | HORIZONTAL FCAW (FLUX CORE ARC WELD) PRACTICAL | 0 | 0 |
| E1.B | FLAT SMAW (SHIELDED METAL ARC WELD) PRACTICAL | 0 | 0 | | | | |
| E1.C | FLAT GMAW (GAS METAL ARC WELD) PRACTICAL | 0 | 0 | | | | |
| E1.D | FLAT FCAW (FLUX CORE ARC WELD) PRACTICAL | 0 | 0 | | | | |
| Subtotals | | 129 | 151 | Subtotals | | 117 | 163 |
| Total | | 280 Hours | | Total | | 280 Hours | |
| Level Three (8 Weeks) | | | | | | | |
| Code | Unit Title | T | P | | | | |
| B2 | Layout, Pattern Development, Jigs and Fixtures | 11 | 7 | | | | |
| C2 | Metallurgy | 21 | 0 | | | | |
| D5 | Shielded Metal Arc Welding (SMAW) III | 14 | 70 | | | | |
| D8 | Gas Metal Arc Welding (GMAW) III | 11 | 20 | | | | |
| D12 | Flux Core Arc Welding (FCAW) II | 1 | 6 | | | | |
| D10 | Gas Tungsten Arc Welding (GTAW) II | 11 | 25 | | | | |
| D13 | Special Processes | 7 | 0 | | | | |
| B4 | Estimating | 14 | 0 | | | | |
| D14 | Practicum II | 0 | 37 | | | | |
| A4 | Orientation II: Journeywork | 7 | 0 | | | | |
| A5 | Pre-IP Examination Review | 18 | 0 | | | | |
| E3.A | VERTICAL SMAW (SHIELDED METAL ARC WELD) or MCAW (METAL CORE ARC WELD) PRACTICAL | 0 | 0 | | | | |
| E3.B | OVERHEAD SMAW or FCAW or MCAW PRACTICAL | 0 | 0 | | | | |
| Subtotals | | 115 | 165 | | | | |
| Total | | 280 Hours | | | | | |

T – Theory
P - Practical