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| **4 SMAW (111) and GMAW (135) Process** |
| The individual needs to know and understand:   * Drawing weld symbol interpretation * Weld positions, weld angles and travel speeds * The techniques for efficient stops/starts * The techniques utilised to deposit single sided root penetration welds * The techniques utilised to deposit defect free butt and fillet welds |
| The individual shall be able to:   * Make welded joints in relation to international specifications * Interpret welding terminology to complete task to specification * Perform welding of carbon steel material in all positions (except vertical down) on pipe and plates deposit single sided full penetration root pass welds * Deposit full penetration butt and fillet welds on pipe and plate * Perform stop/starts |
| **5 FCAW-G (136) Process** |
| The individual needs to know and understand:   * Drawing weld symbol interpretation * Weld positions, weld angles and travel speeds * The techniques for efficient stop/starts * The techniques utilised to deposit defect free butt and fillet welds |
| The individual shall be able to:   * Make welded joints in relation to international specifications * Interpret welding terminology to complete task to specification * Perform welding on carbon steel material in all positions (except vertical down) on pipe and plate * Perform stop/starts * Deposit full penetration butt and fillet welds on pipe and plate |
| **6 GTAW (141) Process** |
| The individual needs to know and understand:   * Drawing weld symbol interpretation * Weld positions, weld angles and travel speeds * The techniques for efficient stops/starts * The techniques utilised to deposit defect free butt and fillet welds |
| The individual shall be able to:   * Make welded joints in relation to international specifications * Interpret welding terminology to complete task to specification * Perform welding on carbon steel, aluminium sheet, and stainless-steel sheet material in all positions (except vertical down) on pipe and plate * Perform stop/starts * Deposit full penetration butt and fillet welds on pipe and plate * Deposit utilising a single pass on stainless steel and aluminium sheet, root and capping pass combination |