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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
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