

| | | | | | |
|----------------|--|----------------|----------------|--|----------------|
| | | | | | |
| | | | | | |
| BLOCK B | FABRICATION AND PREPARATION OF COMPONENTS FOR WELDING | MWA B | MWA B | Performs layout and fabrication of components for welding | BLOCK B |
| Task 6 | Performs layout. | Task 7 | Task 7 | Performs layout | Task 6 |
| 6.01 | Develops templates. | 7.01 | 7.01 | Develops templates | 6.01 |
| 6.02 | Transfers dimensions from drawings to materials. | 7.02 | 7.02 | Transfers dimensions from drawings to materials | 6.02 |
| | | | | | |
| Task 7 | Fabricates components. | Task 8 | Task 8 | Fabricates components | Task 7 |
| 7.01 | Prepares materials. | 8.01 | 8.01 | Prepares materials | 7.01 |
| 7.02 | Fits components for welding. | 8.02 | 8.02 | Fits components for welding | 7.02 |
| 7.03 | Assembles components. | 8.03 | 8.03 | Assembles components | 7.03 |
| BLOCK C | CUTTING AND GOUGING | MWA C | MWA C | Performs cutting and gouging | BLOCK C |
| Task 8 | Uses tools and equipment for non-thermal cutting and grinding | Task 9 | Task 9 | Uses tools and equipment for non-thermal cutting and grinding | Task 8 |
| 8.01 | Selects cutting and grinding tools. | 9.01 | 9.01 | Selects cutting and grinding tools | 8.01 |
| 8.02 | Cuts using stationary band saws and power hacksaws. | 9.02 | 9.02 | Cuts using stationary power tools | 8.02 |
| 8.03 | Cuts using shears and ironworkers. | 9.03 | 9.03 | Cuts using shears and ironworkers | 8.03 |
| 8.04 | Cuts using hand tools. | 9.04 | 9.04 | Cuts using hand tools | 8.04 |
| 8.05 | Cuts using handheld power tools. | 9.05 | 9.05 | Cuts using portable power tools | 8.05 |
| | | | | | |
| | | | | | |
| | | | | | |
| Task 9 | Uses oxy-fuel gas cutting (OFC) process for cutting and gouging | Task 10 | Task 10 | Uses oxy-fuel gas cutting (OFC) process for cutting and gouging | Task 9 |
| 9.01 | Selects OFC gas and equipment. | 10.01 | 10.01 | Selects OFC gas and equipment | 9.01 |
| 9.02 | Sets up OFC equipment. | 10.02 | 10.02 | Sets up OFC equipment | 9.02 |
| 9.03 | Sets operating parameters for OFC equipment. | 10.03 | 10.03 | Sets operating parameters for OFC equipment | 9.03 |
| 9.04 | Performs cut and gouge using OFC equipment. | 10.04 | 10.04 | Performs cut and gouge using OFC equipment | 9.04 |
| | | | | | |
| Task 10 | Uses plasma arc cutting (PAC) process for cutting and gouging | Task 11 | Task 11 | Uses plasma arc cutting (PAC) process for cutting and gouging | Task 10 |
| 10.01 | Selects PAC equipment and consumables. | 11.01 | 11.01 | Selects PAC equipment and consumables | 10.01 |
| 10.02 | Sets up PAC equipment. | 11.02 | 11.02 | Sets up PAC equipment | 10.02 |
| 10.03 | Sets operating parameters for PAC equipment. | 11.03 | 11.03 | Sets operating parameters for PAC equipment | 10.03 |
| 10.04 | Performs cut and gouge using PAC equipment. | 11.04 | 11.04 | Performs cut and gouge using PAC equipment | 10.04 |
| | | | | | |
| Task 11 | Uses air carbon arc cutting (CAC-A) process for cutting and gouging | Task 12 | Task 12 | Uses air carbon arc cutting (CAC-A) process for cutting and gouging | Task 11 |
| 11.01 | Selects CAC-A equipment and consumables. | 12.01 | 12.01 | Selects CAC-A equipment and consumables | 11.01 |
| 11.02 | Sets up CAC-A equipment. | 12.02 | 12.02 | Sets up CAC-A equipment | 11.02 |
| 11.03 | Sets operating parameters for CAC-A equipment. | 12.03 | 12.03 | Sets operating parameters for CAC-A equipment | 11.03 |

| | | | | | |
|----------------------------------|--|----------------|----------------|---|----------------|
| 11.04 | Performs cut and gouge using CAC-A equipment. | 12.04 | 12.04 | Performs cut and gouge using CAC-A equipment | 11.04 |
| BLOCK D WELDING PROCESSES | | MWA D | MWA D | Performs welding processes | BLOCK D |
| Task 12 | Welds using shielded metal arc welding (SMAW) process. | Task 13 | Task 13 | Welds using shielded metal arc welding (SMAW) process | Task 12 |
| 12.01 | Selects SMAW equipment and consumables. | 13.01 | 13.01 | Selects SMAW equipment and consumables | 12.01 |
| 12.02 | Sets up SMAW equipment. | 13.02 | 13.02 | Sets up SMAW equipment | 12.02 |
| 12.03 | Sets operating parameters for SMAW. | 13.03 | 13.03 | Sets operating parameters for SMAW | 12.03 |
| 12.04 | Performs weld with SMAW equipment. | 13.04 | 13.04 | Performs weld using SMAW equipment | 12.04 |
| Task 13 | Welds using flux cored arc welding (FCAW), metal cored arc welding (MCAW) and gas metal arc welding (GMAW) processes. | Task 14 | Task 14 | Welds using flux cored arc welding (FCAW), metal cored arc welding (MCAW) and gas metal arc welding (GMAW) processes | Task 13 |
| 13.01 | Selects FCAW, MCAW and GMAW gas, equipment and consumables. | 14.01 | 14.01 | Selects FCAW, MCAW and GMAW gas, equipment and consumables | 13.01 |
| 13.02 | Sets up FCAW, MCAW and GMAW equipment. | 14.02 | 14.02 | Sets up FCAW, MCAW and GMAW equipment | 13.02 |
| 13.03 | Sets operating parameters for FCAW, MCAW and GMAW. | 14.03 | 14.03 | Sets operating parameters for FCAW, MCAW and GMAW | 13.03 |
| 13.04 | Performs weld using FCAW, MCAW and GMAW equipment. | 14.04 | 14.04 | Performs weld using FCAW, MCAW and GMAW equipment | 13.04 |
| Task 14 | Welds using gas tungsten arc welding (GTAW) process. | Task 15 | Task 15 | Welds using gas tungsten arc welding (GTAW) process | Task 14 |
| 14.01 | Selects GTAW gas, equipment and consumables. | 15.01 | 15.01 | Selects GTAW gas, equipment and consumables | 14.01 |
| 14.02 | Sets up GTAW equipment. | 15.02 | 15.02 | Sets up GTAW equipment | 14.02 |
| 14.03 | Sets operating parameters for GTAW. | 15.03 | 15.03 | Sets operating parameters for GTAW | 14.03 |
| 14.04 | Performs weld using GTAW equipment. | 15.04 | 15.04 | Performs weld using GTAW equipment | 14.04 |
| Task 15 | Welds using submerged arc welding (SAW) process. | Task 16 | Task 16 | Welds using submerged arc welding (SAW) process | Task 15 |
| 15.01 | Selects SAW equipment and consumables. | 16.01 | 16.01 | Selects SAW equipment and consumables | 15.01 |
| 15.02 | Sets up SAW equipment. | 16.02 | 16.02 | Sets up SAW equipment | 15.02 |
| 15.03 | Sets operating parameters for SAW. | 16.03 | 16.03 | Sets operating parameters for SAW | 15.03 |
| 15.04 | Performs weld using SAW equipment. | 16.04 | 16.04 | Performs weld using SAW equipment | 15.04 |