



American Welding Society

SENSE

Training Achievement Record

AWS SENSE LEVEL I—ENTRY WELDER

TRAINING ACHIEVEMENT RECORD

Name _____ Trainee ID # _____ Date Entered Training _____

Training Facility _____

Address _____

Address _____

Address _____

Telephone # _____

INSTRUCTOR USE ONLY

Module, Units and Key Indicators	Performance Rating	Date Completed	Instructor's Initials	Trainee's Initials
1. Occupational Orientation	_____	_____	_____	_____
1. Prepares time or job cards, reports or records.	_____	_____	_____	_____
2. Performs house keeping duties.	_____	_____	_____	_____
3. Follows verbal instructions to complete work assignments.	_____	_____	_____	_____
4. Follows written instructions to complete work assignments.	_____	_____	_____	_____
2. Safety and Health of Welders	_____	_____	_____	_____
1. Demonstrates proper use and inspection of Personal Protection Equipment (PPE).	_____	_____	_____	_____
2. Demonstrates proper safe operation practices in the work area.	_____	_____	_____	_____

Module, Units and Key Indicators	Performance Rating	Date Completed	Instructor's Initials	Trainee's Initials
3. Demonstrates proper use and inspection of ventilation equipment.	_____	_____	_____	_____
4. Demonstrates proper Hot Zone operation.	_____	_____	_____	_____
5. Demonstrates proper work actions for working in confined spaces.	_____	_____	_____	_____
6. Demonstrates proper use of precautionary labeling and MSDS information.	_____	_____	_____	_____
7. Demonstrates proper inspection and operation of equipment used for each required welding and thermal cutting process. (This is best done as a part of the process module/unit for each of the required welding and thermal cutting processes.)	_____	_____	_____	_____
3. Drawing and Welding Symbol Interpretation	_____	_____	_____	_____
1. Interprets basic elements of a drawing or sketch.	_____	_____	_____	_____
2. Interprets welding symbols information.	_____	_____	_____	_____
3. Fabricates parts from a drawing or sketch.	_____	_____	_____	_____
4. Shielded Metal Arc Welding (SMAW)	_____	_____	_____	_____
1. Performs safety inspections of SMAW equipment and accessories.	_____	_____	_____	_____
2. Makes minor external repairs to SMAW equipment and accessories.	_____	_____	_____	_____
3. Sets up for SMAW operations on carbon steel.	_____	_____	_____	_____
4. Operates SMAW equipment on carbon steel.	_____	_____	_____	_____
5. Makes fillet welds in all positions on carbon steel.	_____	_____	_____	_____
6. Makes groove welds in all positions on carbon steel.	_____	_____	_____	_____
7. Passes SMAW welder performance qualification test (2G and 3G, uphill, limited thickness test plates) on carbon steel.	_____	_____	_____	_____
5. Gas Metal Arc Welding (GMAW-S, GMAW Spray Transfer)	_____	_____	_____	_____
1. Performs safety inspections of GMAW equipment and accessories.	_____	_____	_____	_____

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2. Makes minor external repairs to GMAW equipment and accessories.	_____	_____	_____	_____
<i>Short Circuiting Transfer</i>	_____	_____	_____	_____
3. Sets up for GMAW-S operations on carbon steel.	_____	_____	_____	_____
4. Operates GMAW-S equipment on carbon steel.	_____	_____	_____	_____
5. Makes fillet welds in all positions on carbon steel.	_____	_____	_____	_____
6. Makes groove welds in all positions on carbon steel.	_____	_____	_____	_____
7. Passes GMAW-S welder performance qualification test on carbon steel.	_____	_____	_____	_____
<i>Spray Transfer</i>	_____	_____	_____	_____
8. Sets up for GMAW (spray) operations on carbon steel.	_____	_____	_____	_____
9. Operates GMAW (spray) equipment on carbon steel.	_____	_____	_____	_____
10. Makes fillet welds in the 1F and 2F positions on carbon steel.	_____	_____	_____	_____
11. Makes groove welds in the 1G position on carbon steel.	_____	_____	_____	_____
12. Passes GMAW (spray) welder performance qualification test on carbon steel.	_____	_____	_____	_____
6. Flux Cored Arc Welding (FCAW-G/GM, FCAW-S)	_____	_____	_____	_____
1. Performs safety inspections of FCAW equipment and accessories.	_____	_____	_____	_____
2. Makes minor external repairs to FCAW equipment and accessories.	_____	_____	_____	_____
<i>Gas Shielded</i>	_____	_____	_____	_____
3. Sets up for FCAW-G/GM operations on carbon steel.	_____	_____	_____	_____
4. Operates FCAW-G/GM equipment on carbon steel.	_____	_____	_____	_____
3. Makes fillet welds in all positions on carbon steel.	_____	_____	_____	_____
4. Makes groove welds in all positions on carbon steel.	_____	_____	_____	_____
5. Passes FCAW-G/GM welder performance qualification test on carbon steel.	_____	_____	_____	_____

Module, Units and Key Indicators	Performance Rating	Date Completed	Instructor's Initials	Trainee's Initials
<i>Self-Shielded</i>				
8. Sets up for FCAW-S operations on carbon steel.				
9. Operates FCAW-S equipment on carbon steel.				
10. Makes fillet welds in all positions on carbon steel.				
11. Makes groove welds in all positions on carbon steel.				
12. Passes FCAW-S welder performance qualification test on carbon steel.				
7. Gas Tungsten Arc Welding (GTAW)				
1. Performs safety inspections of GTAW equipment and accessories.				
2. Makes minor external repairs to GTAW equipment and accessories.				
<i>Carbon Steel</i>				
3. Sets up for GTAW operations on carbon steel.				
4. Operates GTAW equipment on carbon steel.				
5. Makes fillet welds in all positions on carbon steel.				
6. Makes groove welds in all positions on carbon steel.				
7. Passes GTAW welder performance qualification test on carbon steel.				
<i>Austenitic Stainless Steel</i>				
8. Sets up for GTAW operations on austenitic stainless steel.				
9. Operates GTAW equipment on austenitic stainless steel.				
10. Makes fillet welds in the 1F, 2F and 3F positions on austenitic stainless steel.				
11. Makes groove welds in the 1G and 2G positions on austenitic stainless steel.				
12. Passes GTAW welder performance qualification test on austenitic stainless steel.				

Module, Units and Key Indicators	Performance Rating	Date Completed	Instructor's Initials	Trainee's Initials
<i>Aluminum</i>				
13. Sets up for GTAW operations on aluminum.				
14. Operates GTAW equipment on aluminum.				
15. Makes fillet welds in the 1F and 2F positions on aluminum.				
16. Makes groove welds in the 1G position on aluminum.				
17. Passes GTAW welder performance qualification test on aluminum.				
8. Thermal Cutting Processes				
Unit 1: Manual Oxyfuel Cutting (OFC)				
1. Performs safety inspections of manual OFC equipment and accessories.				
2. Makes minor external repairs to manual OFC equipment and accessories.				
3. Sets up for manual OFC operations on carbon steel.				
4. Operates manual OFC equipment on carbon steel.				
5. Performs straight, square edge cutting operations in the flat and horizontal positions on carbon steel.				
6. Performs shape, square edge cutting operations in the flat and horizontal positions on carbon steel.				
7. Performs straight, bevel edge cutting operations in the flat and horizontal positions on carbon steel.				
8. Performs scarfing and gouging operations to remove base and weld metal, in the flat and horizontal positions on carbon steel.				
Unit 2: Mechanized Oxyfuel Cutting (OFC) (e.g., Track Burner)				
1. Performs safety inspections of mechanized OFC equipment and accessories.				
2. Makes minor external repairs to mechanized OFC equipment and accessories.				
3. Sets up for mechanized OFC operations on carbon steel.				

Module, Units and Key Indicators	Performance Rating	Date Completed	Instructor's Initials	Trainee's Initials
4. Operates mechanized OFC equipment on carbon steel.	_____	_____	_____	_____
5. Performs straight, square edge cutting operations in the flat position on carbon steel.	_____	_____	_____	_____
6. Performs straight, bevel edge cutting operations in the flat position on carbon steel.	_____	_____	_____	_____
Unit 3: Manual Plasma Arc Cutting (PAC)				
1. Performs safety inspections of manual PAC equipment and accessories.	_____	_____	_____	_____
2. Makes minor external repairs to manual PAC equipment and accessories.	_____	_____	_____	_____
3. Sets up for manual PAC operations on carbon steel, austenitic stainless steel and aluminum.	_____	_____	_____	_____
4. Operates manual PAC equipment on carbon steel, austenitic stainless steel, and aluminum.	_____	_____	_____	_____
5. Performs straight, square edge cutting operations in the flat and horizontal positions on carbon steel, austenitic stainless steel and aluminum.	_____	_____	_____	_____
6. Performs shape, square edge cutting operations in the flat and horizontal positions on carbon steel, austenitic stainless steel and aluminum.	_____	_____	_____	_____
Unit 4: Manual Air Carbon Arc Cutting (CAC-A)				
1. Performs safety inspections of manual CAC-A equipment and accessories.	_____	_____	_____	_____
2. Makes minor external repairs to manual CAC-A equipment and accessories.	_____	_____	_____	_____
3. Sets up for manual CAC-A scarfing and gouging operations on carbon steel.	_____	_____	_____	_____
4. Operates manual CAC-A equipment on carbon steel.	_____	_____	_____	_____
5. Performs scarfing and gouging operations to remove base and weld metal in the flat and horizontal positions on carbon steel.	_____	_____	_____	_____
9. Welding Inspection and Testing				
1. Examines cut surfaces and edges of prepared base metal parts.	_____	_____	_____	_____
2. Examines tacks, root passes, intermediate layers and completed welds	_____	_____	_____	_____

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American Welding Society

SENSE

INSTRUCTOR USE ONLY: Testing and Evaluation

Test Attempts (3 Maximum)	Test Score	Date Completed	Instructor's Initials	Trainee's Initials
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Written Tests - Practical Knowledge

Module 2: Safety and Health of Welders (100% required to pass)

(Modules listed below - 75% required to pass)

Module 3: Drawing and Welding Symbol Interpretation

Module 4: Shielded Metal Arc Welding (SMAW)

Module 5: Gas Metal Arc Welding (GMAW)

Module 6: Flux Cored Arc Welding (FCAW-G/GM, FCAW-S)

Module 7: Gas Tungsten Arc Welding (GTAW)

Module 8: Thermal Cutting Processes

Module 9: Welding Inspection and Testing

NOTE: Module 1: Occupational Orientation does not have a written test.

Pass / Fail

Performance Qualification

GMAW-S (Short Circuiting Transfer)

GMAW (Spray Transfer)

FCAW-G/GM (Gas Shielded)

FCAW-S (Self-Shielded)

GTAW (Carbon Steel)

GTAW (Austenitic Stainless Steel)

GTAW (Aluminum)

SMAW (Carbon Steel) Test Plates

2G (Horizontal Groove)

3G, Uphill (Vertical, Uphill Progression, Groove)