

Agricultural Welding, Power, and Structure Technology	
Items	Standard
CONTENT STANDARD 2.0: IDENTIFY LAB ORGANIZATION AND SAFETY	
11	Performance Standard 2.1: Demonstrate General Lab Safety Rules And Procedures
CONTENT STANDARD 3.0: IDENTIFY AND DEMONSTRATE THE PROPER USE OF AGRICULTURAL HAND AND POWER TOOLS	
3	Performance Standard 3.1: Identify General Shop Hand and Power Tools
2	Performance Standard 3.2: Demonstrate Appropriate Usage of Shop Hand and Power Tools
CONTENT STANDARD 4.0: DEMONSTRATE SAFE AND PROPER WELDING PROCEDURES	
8	Performance Standard 4.2: Demonstrate Safe and Proper Techniques in Oxyfuel Cutting (OFC)
21	Performance Standard 4.3: Demonstrate Safe and Proper Techniques in Shielded Metal Arc Welding
10	Performance Standard 4.4: Demonstrate Safe and Proper Techniques in Gas Metal Arc Welding
7	Performance Standard 4.5: Demonstrate Safe and Proper Techniques in Plasma Cutting Procedures
CONTENT STANDARD 5.0: UNDERSTAND THE PRINCIPLES OF ELECTRICITY IN AGRICULTURE	
6	Performance Standard 5.1: Understand Principles and Theories of Electricity
5	Performance Standard 5.2: Apply the Principles and Theories of Electrical Circuits
CONTENT STANDARD 6.0: UNDERSTAND WATER AND WASTEWATER MANAGEMENT IN AGRICULTURAL AND INDUSTRIAL SETTINGS	
1	Performance Standard 6.1: Demonstrate Safe Practices and Procedures in Agricultural and Industrial Water Management
CONTENT STANDARD 7.0: UNDERSTAND PRINCIPLES AND APPLICATIONS IN AGRICULTURAL CONSTRUCTION	
2	Performance Standard 7.1: Demonstrate Practices, Applications, and Procedures of Drafting in Agricultural Projects
1	Performance Standard 7.2: Demonstrate Practices and Procedures in Construction of Agricultural Projects
CONTENT STANDARD 8.0: UNDERSTAND PRINCIPLES AND APPLICATIONS OF SINGLE AND MULTIPLE CYLINDER ENGINES	
1	Performance Standard 8.1: Demonstrate Safe Practices and Procedures of the Operation, Maintenance, and Repair of Small Gas Engines and Equipment
6	Performance Standard 8.2: Demonstrate a Working Knowledge of the Essential Engine Operating Systems
CONTENT STANDARD 9.0: DEMONSTRATE BASIC SKILLS IN OPERATION, MAINTENANCE, AND REPAIR OF AGRICULTURAL MACHINERY	
5	Performance Standard 9.1: Demonstrate Safe Practices and Procedures of Operation, Maintenance, and Repair of Agricultural Machinery and Equipment

CONTENT STANDARD 10.0: DEMONSTRATE THE OPERATION, MAINTENANCE, AND USE OF ELECTRICAL POWER, MOTORS, AND CONTROLS IN AGRICULTURAL APPLICATIONS

3

Performance Standard 10.1: Demonstrate Procedures Associated with the Operation, Maintenance, and Repair of Electrical Power

CONTENT STANDARD 12.0: DESCRIBE THE RELATIONSHIP BETWEEN A SUPERVISED AGRICULTURAL EXPERIENCE (SAE) AND PREPARATION OF STUDENTS FOR A CAREER IN AGRICULTURE

5

Performance Standard 12.1: Actively Develop and Participate in Supervised Agricultural Experience (SAE) which Enables Students to Obtain Work-based Skills

CONTENT STANDARD 13.0: PARTICIPATE IN LEADERSHIP TRAINING THROUGH MEMBERSHIP IN FFA

2

Performance Standard 13.2: Understand the Opportunities in FFA

1

Performance Standard 13.3: Understand the Importance of School and Community Awareness

100

Total Correlations