Agricultural Mechanics

Test Code: 8612
Version: 01

Specific competencies and skills tested in this assessment:

**Agriculture and Natural Resources**
Students will demonstrate knowledge of impacts of agriculture on society
Students will demonstrate an understanding of agribusiness principles and skills

**Agricultural Mechanics**
Students will demonstrate safe practices when working in laboratories and other enclosed facilities and when operating and working around laboratory equipment, materials, and chemicals
Students will repair, recondition, and safely operate hand tools
Students will safely operate power tools
Students will understand welding orientation
Students will use shielded metal arc welding processes
Students will use gas metal arc welding processes
Students will select, maintain, and safely operate oxyfuel welding and cutting equipment systems
Students will fabricate with metal
Students will demonstrate basic electrical wiring knowledge
Written Assessment:

Administration Time: 2 hours
Number of Questions: 77

Areas covered:

16% Agriculture and Natural Resources
84% Agricultural Mechanics

Sample Questions:

One advantage of borrowing money is
   A. acquiring necessary inventory for operating the business
   B. paying interest
   C. guaranteeing a profit
   D. increasing debt equity ratio

What does PPE stand for?
   A. Proper Placement of Equipment
   B. Pressure Protected Equipment
   C. Personal Protective Equipment
   D. Professional Pipefitters Enterprise

The working pressure of acetylene should always be kept below
   A. 15 psi
   B. 25 psi
   C. 50 psi
   D. 75 psi

Which of the following joints is least likely to withstand excessive impact or bending loads?
   A. square butt joint
   B. lap joint
   C. double T joint
   D. double U butt joint

After constructing a storage shed, you wish to paint the wood siding. It should be first coated with a/an _____ prior to applying the final color coat.
   A. primer
   B. etch
   C. mineral spirits
   D. sealer