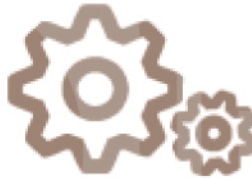


*Experienced Worker Assessment Blueprint*

*Electromechanical Technology (Written Only)*

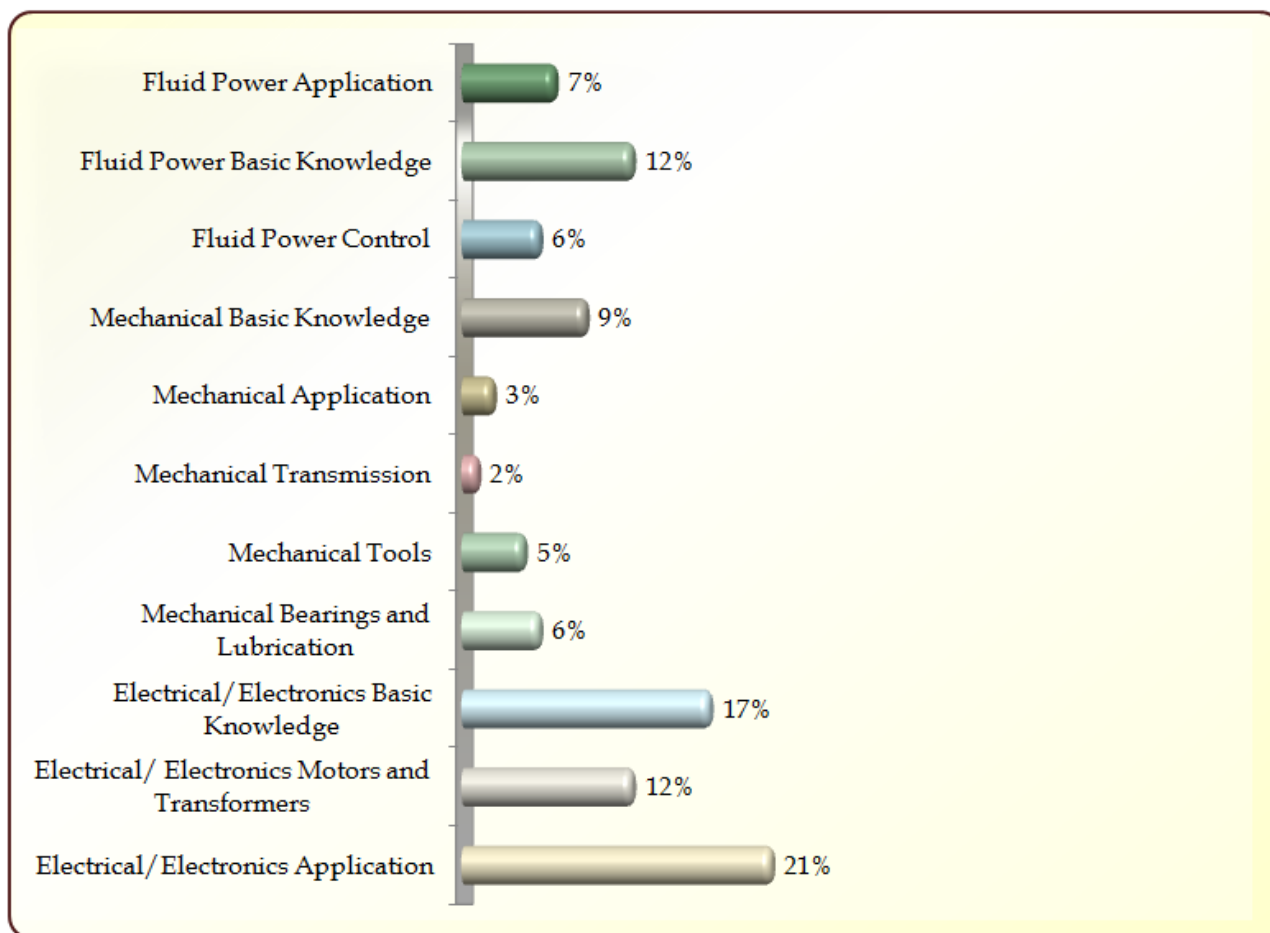


## Written Assessment:

**Administration Time:** 3 hours

**Number of Questions:** 180

### Areas Covered:



**Sample Questions:**

One gallon of typical hydraulic fluid weighs 7.75 pounds and occupies 2.31 cubic inches of volume. If one gallon of this fluid in a container is one foot deep, what is the pressure on the bottom of the container?

- A. 0.40 psia
- B. 0.40 psig
- C. 0.65 psia
- D. 0.65 psig

A double-leg sling is rated for a 6,000 pound load when used with a sling angle of 45 degrees. If the sling angle is decreased to 30 degrees, what is the new maximum load?

- A. 3,000 pounds
- B. 4,200 pounds
- C. 7,500 pounds
- D. the maximum load remains 6, 000 pounds

Lubricants supplied from different manufacturers should not be mixed in the same system because they may have

- A. different specific gravities
- B. different viscosities
- C. different Saybolt numbers
- D. additives that are not compatible

The most widely accepted method of reversing the direction of rotation of a DC motor is to reverse the

- A. polarity of the shunt field leads
- B. polarity of the DC line connected to the motor
- C. armature and series field leads
- D. armature leads

When you arrive to troubleshoot a defective electrical machine, the first step is to

- A. press the START button
- B. press the OVERLOAD-RELAY RESET button
- C. open the controller enclosure
- D. talk to the operator