Written Assessment:

**Administration Time:** 3 hours

**Number of Questions:** 100

**Areas Covered:**

- Electrical: 12%
- Mechanical Aptitude: 12%
- Dairy Equipment: 20%
- Welding: 5%
- Hydraulics: 4%
- Refrigeration: 3%
- Power Generating Systems: 5%
- Operating Shop Equipment: 5%
- General Knowledge: 34%
Sample Questions:

Leaks in the hydraulic cylinders of forklifts may cause
   A. the lift chains to wear unevenly
   B. the mast sections to knock and bump as the mast extends
   C. the load to settle and the mast to creep
   D. the forks to slide together

Which of the following conductors is not normally used in fluid power systems?
   A. plastic tubing
   B. steel tubing
   C. copper tubing
   D. none of the above

In regard to gas-welding aluminum, with which of the following would you disagree?
   A. Considerable heat is absorbed before it reaches welding temperature.
   B. The job will collapse if it gets too hot.
   C. Both joint and rod are coated with flux.
   D. A change of color will signify welding heat.

The primary piece of safety equipment in the machine shop is
   A. gloves
   B. safety shoes
   C. safety glasses
   D. arm bands

All pipe or tubing, when used underground for water service and when installed
outside of the residence, shall have a minimum working pressure of
   A. 25 psi
   B. 30 psi
   C. 40 psi
   D. 60 psi