



# Maintenance Assessment



# You've embraced technology as a method to stay profitable in an ever-competitive market. Can your maintenance crew keep it running?

The industrial workplace depends on highly skilled technician level maintenance staff. Industrial profits depend on plant "up" time. Machines are built to do it better, longer, faster, with less human intervention and labor. Complex controls and machinery require multifaceted, skilled technicians to keep them performing.

You select your maintenance technicians carefully, but resumes and applications don't always tell the whole story. How can you ensure the candidates you're planning to entrust with your maintenance can really do the job? Does the employee who's hoping to move from the production line to mechanical or electrical maintenance within your plant have the core skills he or she needs? How can you know for certain where your maintenance training focus should be?

AIDT provides the answers before you hire, promote, and train maintenance personnel.

 **AIDT helps ensure your company has the people it needs to stay productive.**

AIDT's comprehensive, full-day maintenance assessment program will put your candidates through their paces to give you the information you need. We use a proven battery of written and practical tests to make certain that what you see is what you get. And what you get is productivity.

You provide us the candidates' contact information, and we handle the rest. AIDT schedules, administers, and scores the assessments. Depending on your candidate's availability, we have the final report in your hands in as little as one week.

We continuously refine and adjust the assessment's methodology to stay current with technology, and candidates are only assessed on the skills you require.

We also work with you to develop customized assessment tools to address your unique maintenance requirements.

The written portion of the assessment includes nearly 200 multiple-choice questions covering eight core skill areas:

- Electricity and Electrical Applications
- Programmable Logic Controls
- HVAC
- Plumbing and Pipefitting
- Welding
- Fluid Power
- Machine Tool Practices
- Industrial Machinery

The assessment's performance section consists of 12 projects designed to give candidates the opportunity to demonstrate their skills in the following areas:

### **Mechanical Power Transmission**

Candidates reduce the speed of a motor across two shafts using sprockets and chain and sheaves and belt. Candidates must perform calculations to select the appropriate components.

### **Metal Fabrication**

Candidates layout, drill, tap, and counter bore according to a mechanical drawing.

### **Bearing Replacement**

Candidates remove, inspect, measure, and replace precision bearings.

### **Pneumatic Circuits**

Candidates pipe a pneumatic control circuit according to a schematic.

### **Relay-Based Motor Controls**

Candidates troubleshoot a de-energized control circuit, identify and record results.

### **Programmable Controls**

Candidates troubleshoot a Micrologix 1000 PLC and its I/O, identify and record results.

### **Three-Phase Motors**

Candidates troubleshoot a three-phase motor, record results, and connect for 480-volt operation.

### **Coupling Alignment**

Candidates align a coupling connecting a motor and pump using straight edge/feeler gauge or dial indicator method.

### **Welding**

Candidates set up a welding machine and perform vertical and horizontal welds to specifications based on your weld process.

### **Pipefitting**

Using a blueprint, candidates calculate, cut, prep, and solder copper tubing to specifications.

### **Machining**

Candidates use a mill and lathe to machine piece work to blueprint specifications.

### **Die Repair**

Candidates TIG weld a work piece and hand grind it back to working dimensions.



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