

# RAMSAY CORPORATION



2009

MAINTENANCE & REPAIR ASSESSMENTS

Gold Winner

## ELEC TEST

REVISED IN 2007

Used for selection of electrical repair and maintenance candidates who have knowledge or experience in Motors; Digital and Analog Electronics; Schematics, Print Reading and Control Circuits; Basic AC/DC Theory and Electrical Maintenance; Computers & PLC and Test Instruments; Power Supplies; Power Distribution and Construction & Installation; and Mechanical and Hand & Power Tools.

This test contains 60 items in a multiple-choice format. In a group of 276 maintenance employees, reliability was .87 with a mean score of 37.24, a standard deviation of 9.10, and a standard error of measurement of 3.28.

Test performance was significantly related to job performance rating by supervisors (.01 level of significance).

### Sample Question:

A dual element fuse is used to

- A. operate at higher voltage.
- B. operate at higher current.
- C. operate with a temporary overload.
- D. protect the transistor.

**ElecTest** . . . . . **RR47-C**  
**Admin. Manual** . . . . . **RR47-M**  
 Spanish & alternate form available  
**SEE PRICING BELOW**

## MAIN TEST

### CERTIFY MAINTENANCE EMPLOYEES

A 2½-hour paper-and-pencil test measures the PRACTICAL mechanical and electrical knowledge of maintenance employees.

- Tests managers and hourly workers
- Measures 21 mechanical and electrical areas
- Criterion-related validation
- Provides percentile scores
- Tests scored by Ramsay Corp.
- Group data on developmental needs of your maintenance force
- Allows comparison with local and national samples of 10,000 maintenance workers



### COVERS THESE AREAS

Hydraulics • Pneumatics • Welding • Power Transmission • Lubrication • Pumps • Piping • Rigging • Mechanical Maintenance • Shop Machines, Tools & Equipment • Combustion • Motors • Digital Electronics • Schematics & Print Reading • Control Circuits • Power Supplies • Basic AC/DC Theory • Power Distribution • Test Instruments • Computers & PLC • Electrical Maintenance

**Order: RR-29 (Spanish and Alternate forms available)**

Price is "per test administration"

|         |             |                 |
|---------|-------------|-----------------|
| 10 - 19 | \$65.00 ea. | Test results    |
| 20 - 99 | 45.00 ea.   | provided online |
| 100+    | 35.00 ea.   |                 |

## MEC TEST

REVISED IN 2006

Used for selection of repair and maintenance candidates who have knowledge or experience in Hydraulics & Pneumatics; Print Reading; Welding & Rigging; Power Transmission; Lubrication; Pumps & Piping; Mechanical Maintenance; and Shop Machines, Tools & Equipment.

This test contains 60 items in a multiple-choice format. In a group of 696 applicants and employed mechanics, reliability was .89 with a mean score of 41.35, a standard deviation of 9.46, and a standard error of measurement of 3.13.

Test performance was significantly related to job performance rating by supervisors (.01 level of significance).

### Sample Question:

Peak hydraulic system demands may be met by the use of

- A. an accumulator.
- B. a dual system.
- C. a large reservoir.
- D. an oversize pump.

**MecTest** . . . . . **RR16AU-C**  
**Admin. Manual** . . . . . **RR16AU-M**  
 Spanish & alternate form available  
**SEE PRICING BELOW**

## ELECTRICAL APTITUDE TEST

REVISED IN 2007

Developed to measure a person's electrical aptitude in the areas of mathematics, electrical concepts, process flow, signal flow, electrical schematics, and electrical sequences. This assessment can be used to enable a quick evaluation of a person's electrical aptitude.

This test contains 36 items in a multiple-choice format. In a group of 324 applicants, reliability was .81 with a mean score of 27.58, a standard deviation of 4.93, and standard error of measurement of 2.15. Correlates at .47 with electrical job knowledge. In a sample of 97 technical school trainees, test scores correlated with GPA at .41.

**Electrical Aptitude Test** . . . **RR111-C**  
**Admin. Manual** . . . . . **RR111-M**  
 Alternate form available  
**SEE PRICING BELOW**

## MULTI-CRAFT APTITUDE TEST

Developed to enable a quick evaluation of a person's mechanical and electrical aptitude. This test contains 36 items in a multiple-choice format.

Areas covered in Mechanical Concepts include: work, school science, home settings, and hand and power tools. Areas covered in Electrical Concepts include: signal and process flow, line tracing, and symbol sequences.

**Multi-Craft Aptitude Test** . . . **RR121-C**  
**Admin. Manual** . . . **RR121-M**  
**SEE PRICING BELOW**



### ONLINE ADMINISTRATION

Conduct your testing online with immediate results. Set cutting scores; collect demographic data; prevent hand scoring errors and eliminate test storage. Register at [www.ramsaycorp.com](http://www.ramsaycorp.com).



### ONLINE SCORING

Score your paper-and-pencil tests using our new online Examinee Scoring System. Generate reports based on your individual training or hiring needs.

## MECHANICAL APTITUDE TEST

REVISED IN 2007

Developed to measure a person's mechanical aptitude in the areas of home settings, the workplace, school science and physics, and hand and power tools. This assessment can be used to enable a quick evaluation of a person's mechanical aptitude.

This test contains 36 items in a multiple-choice format. In a group of 994 applicants, reliability was .72 with a mean score of 23.69, a standard deviation of 4.94, and standard error of measurement of 2.61. Correlates at .48 with a test of mechanical job knowledge. In a sample of 159 technical school trainees, test scores correlated with GPA at .40.

**Mechanical Aptitude Test** . **RR110-C**  
**Admin. Manual** . . . . . **RR110-M**  
 Spanish & alternate form available  
**SEE PRICING BELOW**

**Cost per Test Booklet: (Minimum 20) \$22/20-99 Booklets \$19/100+ Booklets Cost per Admin. Manual: \$24.95**

# SELECTION OF TECHNICIANS

## MAINTENANCE ELECTRICIAN A OR B

REVISED IN 2008

For use in selecting manufacturing or processing maintenance candidates who have knowledge in the following areas: Motors; Digital Electronics; Analog Electronics; Schematics & Print Reading; Control Circuits; Power Supplies; AC/DC Theory; Power Distribution; Test Instruments; Mechanical Maintenance; Computer & PLC; Hand & Power Tools; Electrical Maintenance; and Construction & Installation.

*Maintenance Electrician A* contains 60 items. In a sample of 68 applicants and incumbents, reliability was .74 with a mean score of 25.74, a standard deviation of 6.89, and a standard error of measurement of 3.51.

*Maintenance Electrician B* contains 60 items. In a sample of 60 applicants, reliability was .87 with a mean score of 37.5, a standard deviation of 6.47, and a standard error of measurement of 2.42.

NOTE: *Maintenance Electrician B* is more difficult than our *ElecTest* and *Maintenance Electrician A* is more difficult than *Maintenance Electrician B*.

### Sample Question:

When an alternating voltage is applied to a purely resistive circuit, the

- voltage lags the current.
- voltage leads the current.
- current leads the voltage.
- current is in phase with the voltage.

*Maintenance Electrician A* . . . . . RR33A-C  
Admin. Manual . . . . . RR33A-M  
*Maintenance Electrician B* . . . . . RR33B-C  
Admin. Manual . . . . . RR33B-M

SEE PRICING BELOW

## C, B & A MAINTENANCE MECHANICS (MULTI-CRAFT)

For use in selecting manufacturing or processing maintenance candidates who have knowledge in the following areas: Pneumatics; Print Reading; Welding; Electrical; Lubrication; Plumbing; Rigging; Machine Shop; Mechanical; and HVAC.

The test items are written in a multiple-choice format.

|         | No. of Items | Reliability | Std. Dev. | Std. Error of Meas. |
|---------|--------------|-------------|-----------|---------------------|
| C Mech. | 60           | .90         | 7.76      | 2.45                |
| B Mech. | 60           | .85         | 6.36      | 2.46                |
| A Mech. | 60           | .84         | 6.99      | 2.80                |

NOTE: Each level progresses in difficulty, with A Mechanic being the most advanced.

### Sample Question:

Water in a cooling tower is cooled by the process of

- filtration.
- condensation.
- evaporation.
- sublimation.

REVISED IN 2008

*Best used for food, drug, and consumer product industries.*

*C Maintenance Mechanic* . . . . . RR26C-C  
Admin. Manual . . . . . RR26C-M  
*B Maintenance Mechanic* . . . . . RR26B-C  
Admin. Manual . . . . . RR26B-M  
*A Maintenance Mechanic* . . . . . RR26A-C  
Admin. Manual . . . . . RR26A-M

Spanish versions available  
SEE PRICING BELOW

## MULTI-CRAFT TEST

REVISED IN 2007

For use in selecting maintenance employees who have knowledge in the following areas:

- Hydraulics & Pneumatics;
- Welding and Rigging;
- Power Transmission, Lubrication, Mechanical Maintenance, & Shop Machines, and Tools & Equipment;
- Pumps, Piping and Combustion;
- Motors, Control Circuits, and Schematics & Print Reading;
- Digital Electronics, Power Supplies, Computers & PLC, and Test Instruments; and
- Basic AC/DC Theory, Power Distribution, and Electrical Maintenance.

This test contains 60 items in a multiple-choice format. In a group of 587 candidates, reliability was .89 with a mean score of 36.53, a standard deviation of 10.31, and a standard error of measurement of 3.43. Uncorrected correlation with performance ratings of Technical Knowledge, Problem Solving, and Total Performance were .553, .260, and .353, respectively.

### Sample Question:

The type of electronic stage that isolates the stages inside a micro-processor from those outside the micro-processor is the

- buffer.
- bus.
- RAM.
- ROM.



*Multi-CraftTest* . . . . . RR100-C  
Admin. Manual . . . . . RR100-M

Alternate form available  
SEE PRICING BELOW

## ELECTRON TEST

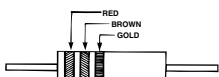
REVISED IN 2005

For use in selecting manufacturing or processing maintenance candidates who have knowledge in the following areas: Digital & Analog Electronics; AC/DC Theory; Schematics & Print Reading; Power Supplies; Motors, Regulators, Electronic Equipment & Power Distribution; Test Instruments; and Computers & PLC.

This test contains 60 items in a multiple-choice format. In a group of 209 candidates, reliability was .92 with a mean score of 32.89, a standard deviation of 11.78, and standard error of measurement of 3.33.

### Sample Question:

What is the value of this resistor?



- 2.1 ohms ± 20%
- 21 ohms ± 10%
- 10 ohms ± 5%
- 1 ohm ± 20%

*ElectronTest* . . . . . RR7-C  
Admin. Manual . . . . . RR7-M

SEE PRICING BELOW

## MECHANICAL TECHNICIAN C, B, & A (Multi-Craft Mechanic)

REVISED IN 2008

For use in selecting metals or manufacturing candidates who have knowledge or experience in the following areas: Hydraulics & Pneumatics; Print Reading; Welding & Rigging; Power Transmission & Lubrication; Mechanical Maintenance Principles; Pumps & Piping; and Shop Equipment & Tools.

*Each level progresses in complexity, with Mechanical Technician A being the most advanced.*

### Sample Question:

The capacity of a piston metering pump can be changed by varying the

- vane spacing.
- connecting rod stroke.
- impeller size.
- drive motor speed.



*Mechanical Technician C* . . . . . RR114C-C  
Admin. Manual . . . . . RR114C-M  
*Mechanical Technician B* . . . . . RR114B-C  
Admin. Manual . . . . . RR114B-M  
*Mechanical Technician A* . . . . . RR114A-C  
Admin. Manual . . . . . RR114A-M

Alternate forms available  
SEE PRICING BELOW

## WELD TEST

REVISED IN 2007

For use in selecting journey-level Welders who have knowledge in the following areas: Print Reading; Welding, Cutting Torch and Arc Air Cutting; Welder Maintenance & Operation; Tools, Machines, Materials & Equipment; Mobile Equipment & Rigging; and Production Welding Calculations.

This test contains 60 items in a multiple-choice format.

*WeldTest* . . . . . RR15-C  
Admin. Manual . . . . . RR15-M

SEE PRICING BELOW

## MILLWRIGHT

REVISED IN 2007

For use in selecting millwright candidates who have knowledge in the following areas: Hydraulics & Pneumatics; Burning & Fabrication and Print Reading; Power Transmission & Lubrication; Pumps & Piping; Rigging; Mechanical Maintenance; and Shop Equipment & Tools, Materials & Equipment.

*Millwright* . . . . . RR44-C  
Admin. Manual . . . . . RR44-M

SEE PRICING BELOW

Cost per Test Booklet: (Minimum 20) \$22/20-99 Booklets \$19/100+ Booklets Cost per Admin. Manual: \$24.95

# PRODUCTION, OPERATING & MANUFACTURING

## COMBINED BASIC SKILLS

REVISED  
IN 2006

Ramsay Corporation's short measure of basic manufacturing and processing skills. This assessment was developed to enable a quick evaluation of literacy and performance skills required in manufacturing and processing.

| Subtest Title                          | No. of Items | Testing in Minutes |
|--|--------------|--------------------|
| • Reading                              | 16           | 16                 |
| • Arithmetic                           | 14           | 10                 |
| • Inspection & Meas.                   | 10           | 8                  |
| • Process Monitoring & Problem Solving | 12           | 14                 |
| <b>TOTAL</b>                           | <b>52</b>    | <b>48</b>          |

**Combined Basic Skills . . . RR76-C**  
**Admin. Manual . . . . . RR76-M**

**Spanish & alternate form available**

**Combined Basic Skills**  
**(Food Industry) . . . . . RR118-C**

**Cost: \$15/20 - 99 Booklets (Min. 20)**  
**\$13/100+ Booklets**  
**\$24.95 - Admin. Manual**

## MEASUREMENT, READING & ARITHMETIC

This test booklet contains a series of three tests in the areas of measurement, reading, & arithmetic. It was originally developed as a basic skills assessment for operating engineers.

| Subtest Title | No. of Items | Testing in Minutes |
|---------------|--------------|--------------------|
| • Measurement | 20           | 15                 |
| • Reading     | 40           | 40                 |
| • Arithmetic  | 40           | 30                 |
| <b>TOTAL</b>  | <b>100</b>   | <b>85</b>          |

**Measurement, Reading, & Arithmetic . . . . . RR54-C**  
**Admin. Manual . . . . . RR54-M**

**Spanish version available**

**Cost: \$22/20 - 99 Booklets (Min. 20)**  
**\$19/100+ Booklets**  
**\$24.95 - Admin. Manual**

## COMBINED BASIC SKILLS (CHEMICAL OPERATOR)

New short assessment to evaluate the knowledge and skills of operating technicians.

| Subtest Title                          | No. of Items | Testing in Minutes |
|--|--------------|--------------------|
| • Reading                              | 16           | 16                 |
| • Arithmetic                           | 14           | 10                 |
| • Inspection & Meas.                   | 10           | 8                  |
| • Process Monitoring & Problem Solving | 12           | 14                 |
| <b>TOTAL</b>                           | <b>52</b>    | <b>48</b>          |

**Combined Basic Skills . . . . RR112-C**  
**Admin. Manual . . . . . RR112-M**

**Cost: \$15/20 - 99 Booklets (Min. 20)**  
**\$13/100+ Booklets**  
**\$24.95 - Admin. Manual**

• **ChemTest** - A 43-item chemical knowledge test . . . . . **RR97-C**  
**Admin. Manual . . . . . RR97-M**

**Price Code 4 (See pg. 4)**

**\*Purchase both Combined Basic Skills (Chemical Operator) and ChemTest for \$30**

## DRAFTER (CAD OPERATOR)

Developed to test a person's ability to draft and perform CAD operations. This test consists of 30 multiple-choice questions in the areas of Print Reading and CAD drawings.



**Drafter (CAD Operator) . RR123-C**  
**Admin. Manual . . . . . RR123-M**  
**SEE PRICING BELOW**

## TESTS AVAILABLE IN SPANISH

|                      |                         |
|----------------------|-------------------------|
| Air Cond. Specialist | Arithmetic Form A       |
| C, B, A Mech. Eval.  | Combined Basic Skills   |
| ChemTest             | Meas., Reading & Arith. |
| ElecTest             | Mechanical Aptitude     |
| MainTest             | Team Skills             |
| MecTest              | PLC Test                |
| Mobile Equip. Mech.  | WTMA Test               |

## TEST ADMINISTRATION

**The Testing Manual** – A reference for Managers and Test Administrators and a Training Manual for Test Administrators **Order RR-2 . . . \$179.95**

Test Samples available upon request:  
**Call for more information**

**MORE DETAILED INFORMATION ON ALL OF OUR TESTS CAN BE FOUND AT:**  
**www.ramsaycorp.com**

## ADDITIONAL TESTS AVAILABLE

| Item#     | Title                               | Item#   | Title                                       | Item#        | Title                              | Price Code 2 (See pg. 4)        |
|-----------|-------------------------------------|---------|---|--------------|------------------------------------|---------------------------------|
| RR126-C   | Boilermaker                         | RR45-C  | Mobile Equip. Mech. (also in Spanish)       | RR41-C       | Algebra                            |                                 |
| RR124-C   | Carpenter A/C                       | RR122   | Operating Engineer                          | RR134-C      | Geometry & Algebra                 |                                 |
| RR57-C    | Cellular Technician                 | RR80-C  | Prod. & Main. Tech. (Metal Processing)      | RR94-C       | Hydraulics                         |                                 |
| RR103-C   | CNC Operator                        | RR63-C  | Project Engineer                            | RR88-C       | Mobile Equipment Operator          |                                 |
| RR82-C    | Combustion Control Technician       | RR56-C  | Refrigeration Mechanic                      | RR96-C       | OSHA Safety Violations Test        |                                 |
| RR23-I-C  | Electrical Technician I (Basic)     | RR107-C | Sheet Metal Worker                          | RR133-C      | Basic Computer Skills              |                                 |
| RR23-II-C | Electrical Tech. II (Advanced)      | RR98    | Sr. Maint. Technician Millwright            | RR24-C       | Reading Elect. Drawings/Schematics |                                 |
| RR14-C    | Electronics & Instrument Technician | RR120   | Maintenance Technician – Forms INM 1 thru 6 | RR99-C       | Trigonometry Test                  |                                 |
| RR127-C   | Injection Molding Mechanic          | RR46-C  | Sr. Maint. Technician Pipefitter            | RR106-C      | Vibration Analysis                 |                                 |
| RR21-I-C  | Instrument Technician (Basic)       | RR117-C | Sr. Maint. Technician Welder                | <b>Item#</b> | <b>Title</b>                       | <b>Price Code 4 (See pg. 4)</b> |
| RR21-II-C | Instrument Technician (Advanced)    | RR42-C  | Tool Knowledge & Use                        | RR40-C       | Air Cond. Spec. (also in Spanish)  |                                 |
| RR83-C    | Ironworker                          | RR20-C  | Tool Room Attendant                         | RR28-C       | Auto Technician                    |                                 |
| RR65-C    | Laboratory Technician (Mfg.)        | RR109-C | Toolmaker                                   | RR104-C      | Instrument Technician (Chemical)   |                                 |
| RR85      | Locomotive Repair                   | RR50-C  | Welder, Repair & Maintenance                | RR105-C      | Electrician (Chemical)             |                                 |
| RR52-C    | Mechanical Technician               |         |   | RR81-C       | Instrument Test (Refinery)         |                                 |
|           |                                     |         |   | RR55-C       | PipeTest (Piping & Plumbing)       |                                 |

**Cost: \$25/20 - 99 Test Booklets (Minimum 20) \$20/100+ Test Booklets \$24.95 Admin. Manual**

The tests sold by Ramsay Corporation have been validated for their original use using a content-related validation model. Obviously we have not conducted such a study for your company. When we did the original studies, they conformed to the requirements of the *Uniform Guidelines on Employee Selection Procedures* (1978).

In addition, several of our tests have been further supported by criterion-related validation studies. Those tests include:

- Maintest • ElecTest • Reading Form A • Combined Basic Skills • Multi-Craft Aptitude • Inspection & Measurement • WTMA
- MecTest • ChemTest • Multi-CrafTest • Arithmetic Form CO-C • Mechanical Aptitude • Electrical Aptitude • Elect. Maint. Trainee

We suggest that you or your job experts review any test which you purchase to ensure that the test items reflect the equipment and technology at your facility. We would be happy to discuss any of these matters with you by telephone.

**Cost per Test Booklet: (Minimum 20) \$22/20-99 Booklets \$19/100+ Booklets Cost per Admin. Manual: \$24.95**

**RAMSAY CORPORATION** • Boyce Station Offices, 1050 Boyce Road, Pittsburgh, PA 15241-3907

Phone: (412) 257-0732 • Fax: (412) 257-9929 • E-mail: sales@ramsaycorp.com • Order online at [www.ramsaycorp.com](http://www.ramsaycorp.com)

**REVISED IN 2008** **TEAM SKILLS** Price Code 3

A test of team knowledge and skills in the following areas: Conflict Resolution; Group Dynamics; Communication Skills; Interpersonal Skills; Team Decision Making; Productivity & Motivation; and Leader & Member Skills.

**Team Skills** ..... RR66-C  
**Admin. Manual** ..... RR66-M

**Also available:**

**Teamwork KSA** ..... RR48-C  
**Admin. Manual** ..... RR48-M

**SALES SKILLS** Price Code 3

A test of sales knowledge in the following areas: Prospecting Skills; Interpersonal Skills; Communication/Expressiveness Skills; Product Knowledge; Confidence; Listening Skills; Persistence; Closing Skills; Follow-up Skills; Negotiating Skills; Honesty; and Motivation.

**Sales Skills** ..... RR67-C  
**Admin. Manual** ..... RR67-M

**MANAGEMENT & SUPERVISORY SKILLS** Price Code 3

A test of knowledge of management and supervisory skills in the following areas: Planning; Motivating; Organizing; Communicating, and Leadership.

**Mgmt. & Supv. Skills** ..... RR73-C  
**Admin. Manual** ..... RR73-M

**MACHINIST** Price Code 4 **REVISED IN 2007**

Select journey-level Machinists

**Machinist** ..... RR18-C  
**Admin. Manual** ..... RR18-M

Also available: **Machinist-Short Form**  
 (45 items in 6 different areas)  
**Order: RR101-C**

**NEW IN 2007** **BUS MECHANIC** Price Code 4

Select Diesel Bus Mechanics

**Bus Mechanic** ..... RR129-C  
**Admin. Manual** ..... RR129-M

**Also available:**

**Vehicle Mechanic** ..... RR131-C  
**Admin. Manual** ..... RR131-M

**REVISED IN 2008** **BLDG TEST** Price Code 4

Select Building Mechanics

**BldgTest** ..... RR27-C  
**Admin. Manual** ..... RR27-M

**PLC TEST** Price Code 4

Areas covered in this 50-item multiple-choice test include PLC & I/O Basics, Ladder Logic, Programming Basics, Peripherals & Systems, and Troubleshooting. (Available in Spanish)



**PLC Test** ..... RR125-C  
**Admin. Manual** ..... RR125-M

**BASIC SKILLS**

**READING:** Designed to measure the ability to read, comprehend, and answer written questions based on a printed passage. Each test consists of 40 questions and five reading passages with progressively higher levels of readability.

| Title                                   | Form                | Average Reading Level | Price Code | Item No.  |
|---|---------------------|-----------------------|------------|-----------|
| Reading                                 | A (Self-scoring)    | 10.4                  | 2          | RR8-C     |
| Reading (Food Industry)                 | A-FI (Self-scoring) | 10.4                  | 2          | RR102FI-C |
| Chemical Reading                        | CH                  | 9.8                   | 2          | RR68-C    |
| Office Reading                          | G                   | 11.4                  | 2          | RR9-G     |
| Health Care Reading                     | HC-1                | 11.0                  | 2          | RR35-HC   |
| Supervisory Reading                     | A                   | 12.0                  | 2          | RR34-S    |
| Warehouse & Shipping Reading            | WH                  | 10.5                  | 2          | RR43-WH   |
| Reading (Electronics & Instrumentation) | IHER                | 11.2                  | 2          | RR22-IH   |

**ARITHMETIC:** Developed to evaluate the ability to perform basic computations at various levels of difficulty:

- Level I: Addition, subtraction, multiplication & division of whole numbers
- Level II: Addition, subtraction, multiplication & division of decimals
- Level III: Addition, subtraction, multiplication & division of fractions
- Level IV: Percentages, simple formulas, reading tables and charts

| Title                                      | Form                     | Level          | Price Code | Item No.            |
|--|--------------------------|----------------|------------|---------------------|
| Arithmetic                                 | A (Self-scoring)         | I & III        | 1          | RR5-A               |
| Arithmetic 2                               | I (Self-scoring)         | I              | 1          | RR49-I              |
| Arithmetic                                 | CO (Self-scoring) or CO2 | I, II, IV      | 2          | RR6CO-C<br>RR6CO2-C |
| Arithmetic                                 | MCY (Self-scoring)       | I, II, III, IV | 2          | RR36MCY-C           |
| Office Arithmetic                          | CA                       | I, II, IV      | 2          | RR10-CA             |
| Arithmetic (Electronics & Instrumentation) | IHER                     | I, II, III, IV | 2          | RR25-IH             |

**PROCESS FLOW:** Developed to measure the ability to follow the flow of liquid or material through a chemical or industrial process, including reading gauges.

| Title        | Form  | Price Code | Item No. |
|--------------|-------|------------|----------|
| Process Flow | WLP-R | 2          | RR-90    |

**CHECKING ACCURACY:** Developed to measure the ability to make accurate readings of identification numbers, names, and tables.

| Title             | Form | Price Code | Item No. |
|-------------------|------|------------|----------|
| Checking Accuracy | A    | 2          | RR-91    |

**MEASUREMENT:** Designed to assess ability to measure accurately in rule dimensions of wholes, halves, quarters, eighths, and sixteenths or to measure, inspect, and follow directions.

| Title                 | Form                      | Price Code | Item No.     |
|-----------------------|---------------------------|------------|--------------|
| Measurement           | A-C or B-C (Self-scoring) | 2          | RR4-A or 4-B |
| Precision Measurement | AR                        | 2          | RR93-C       |

**INSPECTION and MEASUREMENT:** This test is intended for use where candidates must be able to measure, inspect, and follow directions. Included are exercises in measuring objects, reading dials, determining differences, and arranging items numerically and alpha-numerically.

| Title                      | Form                  | Price Code | Item No.   |
|----------------------------|-----------------------|------------|------------|
| Inspection and Measurement | LCI-C (Self-scoring)  | 2          | RR37LCI-C  |
| Inspection and Measurement | LCI-C2 (Self-scoring) | 2          | RR37LCI-C2 |

**PRICE CODES FOR TESTS AND MANUALS**

- 1 = \$6.95/20-99 Test Booklets (Minimum 20) 3 = \$14/20-99 Test Booklets (Minimum 20)  
 \$5.95/100+ Test Booklets \$12/100+ Test Booklets  
 \$24.95 for Admin. Manual & Key \$24.95 Admin. Manual
- 2 = \$12/20-99 Test Booklets (Minimum 20) 4 = \$22/20-99 Test Booklets (Minimum 20)  
 \$10/100+ Test Booklets \$19/100+ Test Booklets  
 \$24.95 Admin. Manual \$24.95 Admin. Manual

# APPRENTICES & MAINTENANCE TRAINEES

## ELECTRICAL MAINTENANCE TRAINEE

REVISED IN 2007

For use in selecting electrical trainees with one year of training or experience in the following areas: Motors; Digital & Analog Electronics; Schematics & Electrical Print Reading; Control; Power Supplies; Basic AC/DC Theory; Construction, Installation & Distribution; Test Instruments; Computers & PLC; Mechanical, Equipment Operation, & Hand & Power Tools; and Electrical Maintenance.

This test contains 60 items in a multiple-choice format. In a group of 121 candidates reliability was .91 with a mean score of 30.83, a standard deviation of 11.12, and standard error of measurement of 3.37.

### Sample Question:

If the current is 12 amperes and voltage is 15 volts, what is the resistance?

- A. .75 ohms
- B. .80 ohms
- C. .90 ohms
- D. 1.25 ohms

*Elec. Maint. Trainee . . . . . RR17-C*  
*Admin. Manual . . . . . RR17-M*

SEE PRICING BELOW

## MECHANICAL MAINTENANCE TRAINEE

REVISED IN 2007

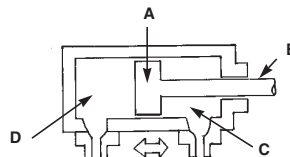
For use in selecting mechanical trainees with one year of training or experience in the following areas: Hydraulics; Pneumatics; Print Reading; Welding; Power Transmission; Lubrication; Pumps; Piping; Rigging; Maintenance; Shop Machines; and Tools, Material & Equipment.

This test contains 60 items in a multiple-choice format. In a group of 1,071 candidates, reliability was .87 with a mean score of 28.82, standard deviation of 9.48, and standard error of measurement of 3.41.

### Sample Question:

Identify part D in the diagram below.

- A. Rod
- B. Head end
- C. Piston
- D. Rod end



*Mech. Maint. Trainee . . . . . RR31-1C*  
*Admin. Manual . . . . . RR31-1M*

Alternate form available

SEE PRICING BELOW

## MULTI-CRAFT TRAINEE TEST

Developed for use with applicants or employees who have at least one year of mechanical and electrical training or experience.



*Multi-Craft Trainee Test. . RR116-C*  
*Admin. Manual . . . . . RR116-M*

SEE PRICING BELOW

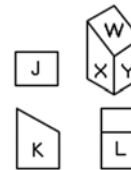
## PRINT TEST

Select candidates for jobs requiring reading prints and drawings.

### Sample Question:

Surface Y is the same as what other surface?

- A. X
- B. J
- C. K
- D. L



*PrintTest (Fraction version) . . . . . RR11-C*  
*PrintTest (Decimal version) . . . . . RR11B-C*  
*Admin. Manual . . . . . RR11-M*

SEE PRICING BELOW

Also available: *Pre-Print Reading . . RR135-C*  
*Price Code 2 (See page 4)*

## ELECTRICAL REPAIR APPRENTICE BATTERY

A basic skills test battery measuring 5 different areas: Reading; Arithmetic; Electrical Print Reading; Troubleshooting & Problem Solving; and Basic Electricity.

These 5 tests, in multiple-choice format, are more demanding of job knowledge than a basic skills battery, but less demanding than our Electrical Maintenance Trainee Test.

*Reading . . . . . RR58R-C*  
*Arithmetic . . . . . RR58A-C*  
*Elec. Print Reading . . . . . RR58EPR-C*  
*Troubleshooting & Problem Solving . . . . . RR58TR-C*  
*Basic Electricity . . . . . RR58BE-C*

*Cost: \$12/20-99 Booklets (Min. 20)*  
*\$10/100+ Booklets*

*Admin. Manual . . . . . RR58-M*  
*Cost: \$24.95*

## MECHANICAL REPAIR APPRENTICE BATTERY

A basic skills test battery measuring 5 different areas: Reading; Arithmetic; Measurement; Reading Prints & Drawings; and Basic Mechanical Knowledge.

These 5 tests, in multiple-choice format, are more demanding of job knowledge than a basic skills battery, but less demanding than our Mechanical Maintenance Trainee Test.

*Reading . . . . . RR59R-C*  
*Arithmetic . . . . . RR59A-C*  
*Measurement . . . . . RR59M-C*  
*Reading Prints & Drawings . . . . . RR59RPD-C*  
*Basic Mechanical Knowledge . . . . . RR59BM-C*

*Cost: \$12/20-99 Booklets (Min. 20)*  
*\$10/100+ Booklets*

*Admin. Manual . . . . . RR59-M*  
*Cost: \$24.95*

## WTMA – WIESEN TEST OF MECHANICAL APTITUDE

This APTITUDE test was developed to measure mechanical aptitude and reduce impact on females.

In a group of 80 African American and Hispanic students, there was no significant difference in scores of males and females.

This test has 60 questions in a multiple-choice format. Each question uses a diagram with everyday objects to illustrate a mechanical principle or fact. It has been found to be highly correlated with other measures of mechanical aptitude.

Test scores were significantly related to performance as rated by supervisors of 102 employed machine operators. The mean was 63% and standard deviation was 13.88. Test scores were also significantly correlated with performance ratings of 169 employed chemical operators.

*WTMA Test . . . . . RR89-C*  
*Admin. Manual . . . . . RR89-M*

Spanish version available

SEE PRICING BELOW

**Cost per Test Booklet: (Minimum 20) \$22/20-99 Booklets \$19/100+ Booklets Cost per Admin. Manual: \$24.95**