

**Study Guide
for
Apprentice Cable Splicer**

Test No. 2902

**Human Resources
Performance Assessment Services
Southern California Edison
An Edison International Company**

Introduction

The Apprentice Cable Splicer Test is a job knowledge test designed to cover the major knowledges necessary to perform the job. This *Guide* contains strategies to use for taking tests and a study outline, which includes knowledge categories and references.

Test Scheduling

Employees will be scheduled for testing by their Supervisor through Human Resources. Applicants will be scheduled through the recruiter. If you do not pass the test on your first attempt, please refer to the testing guidelines on MyEdison.Net (employees only) or call 626-302-9830.

Test Session

It is important that you follow the directions of the Test Administrator *exactly*. If you have any questions about the testing session, be sure to ask the Test Administrator before the testing begins. During testing, you may not leave the room, talk, smoke, eat, or drink. Since some tests take several hours, you should consider these factors before the test begins.

All questions on this test are multiple-choice with four possible answers. Your answers to the questions are indicated by filling in a circle on an answer sheet with a special mark-sense pencil. For your answers to be read accurately by the scanner, you must fill in the circles completely and erase completely any answer you wish to change.

The Test has a two hour time limit, and you are allowed to use a non-programmable calculator when taking this test.

You will receive a Test Comment form so that you can make comments about test questions. Write any comments you have and turn it in with your test when you are done.

Study Guide Feedback

At the end of this *Guide* you have been provided with a Comment Page. If a procedure or policy has changed, making any part of this *Guide* incorrect, your feedback would be appreciated so that corrections can be made.

Test Taking Strategies

Introduction

The Apprentice Cable Splicer Test contains multiple-choice questions. The purpose of this section is to help you to identify some special features of a multiple-choice test and to suggest techniques for you to use when taking one.

Your emotional and physical state during the test may determine whether you are prepared to do your best. The following list provides common sense techniques you can use before the test begins.

Technique

Remarks

Be confident

- If you feel confident about passing the test, you may lose some of your anxiety.
- Think of the test as a way of demonstrating how much you know, the skills you can apply, the problems you can solve, and your good judgment capabilities.

Be punctual

- Arrive early enough to feel relaxed and comfortable before the test begins.

Concentrate

- Try to block out all distractions and concentrate only on the test. You will not only finish faster but you will reduce your chances of making careless mistakes.
- If possible, select a seat away from others who might be distracting.
- If lighting in the room is poor, sit under a light fixture.
- If the test room becomes noisy or there are other distractions or irregularities, mention them to the test administrator *immediately*.

Budget your time

- You are allowed two hours to complete the test.
- Pace yourself carefully to ensure that you will have enough time to complete all items and review your answers.

Read critically

- Read all directions and questions carefully.
- Even though the first or second answer choice looks good, be sure to read all the choices before selecting your answer.

Make educated guesses

- Make an educated guess if you do not know the answer or if you are unsure of it.

Changing answers

- *If* you need to change an answer, be sure to erase your previous answer completely.

Return to difficult questions

- If particular questions seem difficult to understand, make a note of them, continue with the test and return to them later.

Double-check mathematical calculations

- Use scratch paper to double check your mathematical calculations.

Review

- If time permits, review your answers.
- Do the questions you skipped previously.
- Make sure each answer bubble is *completely* filled in. Erase any stray marks on your answer sheet.

Remember the techniques described in this section are only suggestions. You should follow the test taking methods that work best for you.

Study Guide Outline

Job Knowledge Categories and Study References

- A. **Safety and First Aid.** Knowledge of basic safety and first aid procedures as found in Red Cross Handbook or learned in a basic first aid course, including CPR, treatment for electric shock, and burns; safe use and operation of tools, equipment, materials and vehicles.

Study References - *Accident Prevention or First Aid* manual, especially sections pertaining to general safety or first aid. *The Fire Information Rules & Education*, any basic *Rigging Manual*, especially sections on knots; *Forklift Training* manual. *The Lineman's and Cableman's Handbook*.

- B. **Tools, Equipment, Materials, and Documents.** Identify and know the use of basic hand tools such as the kind used in a beginning shop class or through doing routine house and car maintenance; identify and be familiar with equipment, materials, and documents used in overhead and underground cable construction and maintenance, including Communication Standard Practices or Substation Construction Standards, and Safety/Accident Prevention manual.

Study References - General truck tools; any basic *Rigging Manual* Sections on Eye Bolts & Nuts, Synthetic Rope, and Knots; Tools and Equipment Lists; Basic electricity textbook, e.g., G P Courseware Basic Electricity, by General Physics Corporation, Columbia, MD; Blueprint Reading Basics, by R. Weaver, Houston, TX: Gulf Publishing Co.; *California Public Utilities Commission Rules for Overhead Electrical Line Construction* Section 6095, and *Rules for Underground Electrical Line Construction* Section GO 128. *The Lineman's and Cableman's Handbook*.

- C. **Basic Electricity.** Basic electrical knowledge including a rudimentary understanding of Ohm's Law, watts, voltages, amperes, circuitry, electrical symbols, and electrical terminology as learned in a beginning electricity course or textbook.

Study References - Basic electricity textbook, e.g., G P Courseware Basic Electricity, by General Physics Corporation, Columbia, MD; *Grounding Manual*. *The Lineman's and Cableman's Handbook*.

- D. **Basic Mathematics.** Ability to add, subtract, multiply and divide whole numbers, percentages, decimals (up to two places) and fractions. Convert measurements, such as feet to inches, yards to meters.

Study References - G P Courseware Mathematics I, by General Physics Corporation, Columbia, MD.

- E. **Vehicle Operation.** Operating work vehicles larger than passenger cars; pulling trailers; operating forklifts; and identifying vehicle operation problems.

Study References – *Safety/Accident Prevention* manual; *Work Area Protection & Traffic Control Manual*; Forklift Training. The *Lineman's and Cableman's Handbook*.

- F. **Mechanical Principles.** Understanding physical principles as they relate to tools, equipment, machinery, materials, and manual operation of cables. Knowing how to use tools properly and effectively.

Study References – basic *Rigging Manual* sections on Snatch Blocks and Daily Rigging Practices; G P Courseware Basic Physics, by General Physics Corporation, Columbia, MD; G P Courseware Materials Science, by General Physics Corporation, Columbia, MD. The *Lineman's and Cableman's Handbook*.

Study References

Safety or Accident Prevention Manual
Sections on general safety and first aid

The Fire Information Rules & Education Manual

Any basic *Rigging Manual*
Sections on Knots, Eye Bolts & Nuts, and Synthetic Rope

Grounding Manual

Work Area Protection & 7y-af Traffic Control Manual

California Public Utilities Commission Rules for Underground and Overhead Electrical Line Construction
Section GO 95 and GO 128.

Forklift Training

G P Courseware, by General Physics Corporation, Columbia, M.D.:

Basic Electricity
Mathematics 1
Basic Physics
Materials Science

The Lineman's and Cableman's Handbook, Shoemaker & Mack, McGraw-Hill Publishers.

Weaver, R. *Blueprint Reading Basics*, Houston, Texas: Gulf Publishing Co.

Study Guide Feedback

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Comments
