



**A guide to taking the Green Battery
Tests for Administrative job families**

Test Preparation Kit

Strategies • Samples • Further Resources

- Reasoning
- Reading Comprehension
- Problem Solving

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WELCOME!

Congratulations! You are taking the first step to ensure your success on the tests and ultimately in your career at Sempra Energy utilities. The tests used at the Southern California Gas Company are designed to give you the opportunity to make the best use of your skills. This booklet will give you information about the procedures used to select employees who are qualified and likely to be successful in the job. These procedures include a series of tests which indicate how successful you are likely to be in the job for which you will apply.

This booklet gives you some tips for preparing for the tests, as well as suggestions on how to do your best. It also includes sample items so that you can practice for the actual tests. **GOOD LUCK!**

HOW TO USE THIS MANUAL

This manual is divided into four sections aimed at helping you become more successful on your tests.

- General test taking strategies applicable to all tests
- A brief discussion of each test
- Sample questions
- A list of resources that will provide sample tests and study materials

If you are a *first time* test taker, take time to read through this entire manual and familiarize yourself with the tests you will be taking. Also provided are book recommendations to assist you in studying for your exams.

If you are *retaking* a test, pay attention to the general test taking strategies, work through the sample problems, identify your weaknesses, and obtain one of the practice test guides described at the back of this manual. If you feel you need to “brush-up” on a subject there are books to help you do that as well.

About Aptitude Tests

Sempra Energy utilities uses aptitude tests for people applying to certain jobs. Rather than tests that try to recreate the job, these tests measure basic aptitudes or abilities that are related to success in the job in question. Examples of aptitudes include reading comprehension, computation, visual speed and accuracy, coding ability, and understanding of basic mechanical principles.

Consider the example of someone applying for a job in the Accounting department. He or she would be tested on the ability to do math instead of the ability to create a specific report. This approach is more efficient, more resistant to changes in the job, easier to manage, and, best of all, research has shown that ability in these basic aptitudes predict success in the job.

General Test Taking Strategies

The following discussion includes tips for taking a wide variety of tests and should be practiced alongside the tips provided for each individual test (provided in the following section).

Before the Test

- Pace yourself. If you choose to prepare for your test, review the material (books, practice problems, or study guide) in several relatively short periods rather than a few long periods. Studying in several 30-60 minute sessions allows you to absorb the material more easily than if you were to cram large quantities of information at once.

During the Test

- Read each question carefully. After reading each question, make sure you understand it clearly.
- Complete the easiest questions or sections first. Begin the test by identifying the areas in which you are strongest, remembering to mark the questions you skip. Don't spend too much time on any one question – since any question is worth the same in scoring, it is always to your advantage to complete as many questions as you can!
- If you find yourself in a situation where you do not understand the nature of the question or simply don't know the answer, mark it and return to it later. Spending valuable time on a test item that you cannot answer simply gives you less time to complete other items you may know. Marking your answer sheet when you skip an item can help you keep track of where you are on the test.
- Be aware of being tempted to pick wrong answers. There are answers that test developers have created based upon simple common errors such as replacing the word "their" with "there." Take your time to work through the problem if it involves numbers and to read actively if the question involves grammar and spelling situations.

- Do not make RANDOM guesses, but narrow down for the correct response. If you are given four choices and randomly guess, you only have a 25% chance of guessing the right answer—or a 75% chance of guessing the WRONG answer. Further, if you can eliminate just one wrong answer you have boosted your chances to 33%. Obviously, if you can eliminate two wrong answers your chances have gone up to 50%. When all else fails and you must make guesses:
 - Be aware of key words: “always,” “never,” “all,” or “none.” Consider these options carefully.
 - Trust your “gut”: Usually your first reaction is right.
- Leave time for review. If you complete the test before the time is up, review your answers! Don’t look for patterns in the responses – the tests have been professionally developed and don’t necessarily have the same number of “A,” “B,” or “C” answers. If you find that you have answered mostly “A,” for example, trust your instincts and don’t assume that it must be wrong. You can also use any extra time to make certain your answers are entered darkly and clearly. Be sure all your answer changes are erased completely and there are no stray marks on the answer sheet.

Strategies for Questions

True/False Questions

- Words such as “always,” “never,” “all,” and “none” are often, but not always, signals that a statement is false
- If any part of the statement is false, the entire statement is false.

Multiple Choice Questions

- Read the entire question and try to answer it *before* looking at your options.
- Even if you think you know the answer be sure to read through all of your options.
- If you are uncertain, begin by eliminating answers that are wrong, increasing your chances of being right.

When You Begin

- **Be positive!** The tests are not designed to trick you or be unnecessarily difficult. In fact, if you've taken other tests in school or at work, you'll probably find these very familiar. Start with a positive attitude and don't give up. Try to remember the hints that are outlined in this booklet and don't get discouraged if there are questions for which you don't know the answer. Remember, each question counts the same as any other question. If you can't answer one, don't let that discourage you for the next items. Begin each section/test with the same positive attitude. No one is expected to get every answer right!
- Read the directions and listen carefully to all test instructions! Sometimes we assume we know what type of question we are answering, but many times test takers get answers wrong because they did not read the directions. An example of this would be the difference between mark all that apply, answer only one, and mark the one that does not belong.
- **Relax.** Feeling high amounts of stress or tension will cause you to forget what you know or think irrationally. Ways to reduce feelings of stress include preparing in advance, not talking with others who are stressed about the test immediately beforehand, making sure you understand the directions, and reviewing this guide.

Samples for Tests in the Green Battery

Sample 1: Reasoning

This test is designed to measure the ability to analyze facts and make valid judgements on the basis of the logical implications of such facts. This test consists of 30 items, each containing a statement and conclusion. You will be given a total of 5 minutes to answer as many items as possible. This is a speeded test.

Below are examples of questions from the Symbolic Reasoning test.

Directions: Mark “T” to indicate true, “F” to indicate false, or “X” to indicate it is impossible to determine based on the information given in the statement.

Facts

- Steve was hired by Macrosoft in 1990.
- Steve is now a manager for Macrosoft and speaks Spanish.
- All macrosoft managers that work in the Spain office speak Spanish.
- Jennifer works at the Macrosoft’s Spain office.
- All of the employees in Steve’s department were hired before 1995.
- Jennifer was hired by Macrosoft in 1996.

Conclusions

1. Steve works in Macrosoft’s Spain office.	T	F	X
2. Jennifer works in Steve’s department.	T	F	X
3. Only Spanish speaking employees work in Macrosoft’s Spain office.	T	F	X
4. Jennifer speaks Spanish.	T	F	X
5. Steve has been at Macrosoft 6 years longer than Jennifer.	T	F	X

Sample 2: Reading Comprehension

This test is designed to measure both verbal comprehension and reasoning. You will be given 10 minutes to answer as many of the 23 questions as possible. Read the passage and then read the question that follows it. In each question, four options are presented from which you will select the best answer.

Below is an example from the Reading Comprehension test.

Directions: Choose the best answer based on the passage below.

Natural gas is a naturally occurring mixture of hydrogen and non-hydrogen gases. While the principle component of natural gas is the hydrocarbon methane, other minor components include non-hydrocarbons and heavier hydrocarbons, such as ethane. Generally, natural gas weighs approximately 64% of an equal volume of air.

1. Natural gas is best described as:

- A. a gas which is heavier than air
- B. a primarily methane-based gas
- C. a combination of non-hydrocarbons, ethane, and heavier hydrocarbon gases
- D. a gas manufactured from hydrocarbon and non-hydrocarbon gases

Sample 3: Problem Solving

This test is designed to measure the ability to solve “story” problems requiring the application of arithmetic operations. This test consists of 25 items and you will be given 10 minutes to answer as many questions as possible. You will read a word problem and apply the appropriate arithmetic operation. You will then select the correct answer from four choices or indicate none are correct.

Below are examples of questions from the Problem Solving test.

Directions: Choose the best answer based on the passages below.

1. You and your friend are buying movie tickets. You pay for both tickets with a \$20 bill. Each ticket costs \$7.50. Your friend, however, has a student pass and will receive a 10% discount on her ticket. How much change do you receive?
 - A. \$5.75
 - B. \$5.25
 - C. \$4.25
 - D. \$4.50
 - E. None of the above
2. Cameron’s wage is \$20/hour. If he receives a raise of 10% an hour and always works 40 hour weeks, what is his new weekly wage?
 - A. \$840
 - B. \$940
 - C. \$1,000
 - D. \$1,280
 - E. None of the above

Answers

1. Mechanical Comprehension

1. X
2. F
3. X
4. X
5. T

2. Reading Comprehension

The correct answer is **B**. Natural gas is best described as a primarily methane-based gas. Natural gas weighs less than air (64% of air's weight) and is natural, not manufactured, which eliminates choices A and D. Natural gas contains non-hydrocarbons, ethane, and heavier hydrocarbon gases (as in choice C), but those are not in its main components, and hence not the best description.

3. Problem Solving

1. The correct answer is A. First, take 10% of 7.50. Then add 6.75 and 7.50. Then subtract 14.25 from 20.
2. The correct answer is E. The answer is 880 which is not listed. First, $1.10 \times 20 = 22$. Second, $22 \times 40 = 880$.

Further Resources

Note: Not all of the resources listed below will contain information that is relevant to the test that you are taking. It is suggested that you find the material in each resource relevant to your test.

Reasoning

- Chesla, E. (2002). Reasoning Skills Success in 20 Minutes a Day. New York, NY: Learning Express.
- <https://www.kent.ac.uk/careers/tests/sequences.htm>
- Try to engage in activities such as:
 - Watching television shows or videos that involve logic and reasoning.
 - Putting together puzzles and/or playing games that involve logic and reasoning.

Reading Comprehension

- Princeton Review (2006). Cracking the GED 2006 (Test Prep). Princeton, NJ: Author. Rockowitz.
- <https://www.testprepreview.com/modules/reading1.htm>
- Try to engage in activities such as:
 - Reading and analyzing books, newspapers, or magazine articles for comprehension.
 - Visiting websites and using software that has interactive activities related to reading comprehension.

Problem Solving

- Prindle, A., & Prindle, K. (2003). Math the Easy Way. Barron's Educational Series.
- <http://www.majortests.com/sat/problem-solving.php>
- Try to engage in activities such as:
 - Puzzles and games that involve math and computation skills.
 - Visiting websites and using software that has interactive activities related to math.