



**Journey Welder Knowledge Assessment (JWKA)
and
Journey Welder Math Assessment (JWMA)**

Preparation Guide

The Journey Welder Knowledge and Math Assessments for Journey Pipeline Welder Jobs

OVERVIEW

Pacific Gas and Electric Company believes it is critical that employees have the basic ability to succeed on the job. The Journey Welder Knowledge Assessment (JWKA) and Journey Welder Math Assessment (JWMA) allow PG&E to make an initial assessment of your welding trade knowledge and pipeline fitting abilities. Because the JWKA and JWMA are standardized, it ensures that everyone who wants to be considered for our Journey Pipeline Welder positions receives a fair and objective opportunity to demonstrate their abilities. These tests have been designed to measure knowledge, skills and abilities important to the job.

KNOWLEDGE ASSESSMENT

This 40-item exercise is designed to measure craft/trade knowledge. Candidates will have 60 minutes to complete this test. The test is divided into two sections. Part 1 measures proficiency with trade procedure, and Part 2 measures proficiency with trade safety. Below are some sample items that illustrate the types of items on this assessment.

Look at the sample problems below. Each problem is followed by a list of possible answers. You are to work each problem and put a heavy black mark in the circle before the correct answer.

Now work the sample problems below. The first one has been answered correctly.

- | | | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| 1. Welding in the vertical fixed position is called? | <input type="radio"/> 5G | <input type="radio"/> 3D | <input type="radio"/> 4G | <input type="radio"/> 6G | <input checked="" type="radio"/> 2G |
| 2. Acetylene is unsafe to operate above _____ PSI. | <input type="radio"/> 5 | <input type="radio"/> 3 | <input type="radio"/> 7 | <input type="radio"/> 10 | <input type="radio"/> 15 |

MATH (FITTING) ASSESSMENT

This 15-item assessment is designed to measure math skills as related to pipe fitting including proficiency with fraction to decimal conversion, square roots, and volume. Candidates will have 30 minutes to complete this test. Calculators will be allowed for this portion of the test. Below are some sample items that illustrate the types of items on this assessment.

Look at the sample problems below. Each problem is followed by a list of possible answers. You are to work each problem and put a heavy black mark in the circle before the correct answer.

Now work the sample problems below. The first one has been answered correctly.

1. Convert 8" to hundredths of a foot. .27' .37' .47' .57' .67'
2. Which of the following is the decimal equivalent of $5/8$ "? .625 .580 .400 .375 .225

DO YOUR BEST

A general reference book is always invaluable as a supplement to other textbooks from classes or specific subjects, and as an instrument for general review in preparing for qualifying tests. Additional resources for improving your understanding of the concepts above may be found at your local libraries and bookstores.

We hope you find this information helpful. Make sure that when you are scheduled to take the test you are physically and mentally alert and ready to do your best, or you should reschedule your appointment.