

API 1104

CODE CLINIC STUDY GUIDE

22nd Edition



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Study Guide for API Standard 1104, Twenty-Second Edition

Foreword

AWS Education Services has published this Study Guide for API 1104 to assist quality professionals – inspectors and supervisors – and quality-conscious engineers and managers in reading, understanding, and learning to apply the American Petroleum Institute’s (API) Standard 1104, Welding of Pipelines and Related Facilities, Twenty-Second Edition. This Study Guide was written specifically for the 22nd Edition, including Errata 1, September, 2023. For subsequent printings which may include errata or addenda, page numbers may be different.

The API Standard 1104 applies to the welding of piping used in the compression, pumping, and transmission of petroleum products, fuel gases, carbon dioxide, and nitrogen. The standard’s purpose is to present methods for the production and inspection of high-quality welds through the use of qualified personnel using approved procedures, materials, and equipment. It applies to new construction and in-service welding and is voluntary.

This API 1104 Study Guide consists of an introduction, 14 sections, each covering the corresponding section or annex of the standard along with exercise questions for each section, and several groups of practice questions with an answer key.

Answering the practice questions serves as a valuable review of the section contents. These questions also illustrate the types of questions you’re likely to encounter on the AWS CWI exam.

In addition to explanations of each section of API 1104, in some cases, this Study Guide also provides a commentary or examples to further explain the provision.

As you read this book, open the standard to the corresponding section, paragraph, or page.

Remembering excerpts from the standard is neither necessary nor desirable. You need not memorize the standard; just learn how to use it.

The American Welding Society appreciates feedback from participants in its education programs. Please send comments or questions to:

American Welding Society
Education Department, 2nd Floor
8669 NW 36th Street #130
Miami, Florida 33166-6672

or contact the AWS Education Services Department by email at aws.seminars@aws.org. Additional information on AWS products and services may be found on our website at www.aws.org.

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Introduction

How to Use API 1104

