

## Title of Endorsement

API 1104, *Welding of Pipelines and Related Facilities*

## Scope of Endorsement (description)

Section 2 of AWS QC1:2007, *Standard for AWS Certification of Welding Inspectors*, provides for endorsements that may be added to the CWI and SCWI certifications. Endorsements are defined in AWS QC1 as the approval of an additional skill documented in writing and added to a certification credential.

This endorsement covers four subject areas in API 1104, material and design, fabrication, inspection, and qualification, including Appendix A and B. Subject weights for each of these areas are in conformance with the codebook examination requirements as expressed in section 7.1 of AWS B5.1, *Specification for the Qualification of Welding Inspectors*.

Code Applications	Percent of Total Questions
Material and Design	10
Fabrication	30
Inspection	25
Qualification	30

*Note: Percentages indicate the minimum required for each category in an examination.*

## Training Requirements

There are no mandatory training requirements. Candidates are encouraged to attend a seminar or self-study to become familiar with API 1104.

## Examination Requirements

Candidates seeking the API 1104 endorsement shall pass an open book written examination consisting of 60 multiple choice questions in two hours. Candidates are required to use the API 1104 *Welding of Pipelines and Related Facilities* to answer the questions. Candidates may not use photocopied versions of the standard unless they can supply evidence of purchase of the document.

Successful candidates must correctly answer 72% of the questions to receive this endorsement. Re-examinations for this endorsement shall be in accordance with section 6.2.5 of AWS QC1.

## How endorsement will be expressed

Existing CWIs and SCWIs who wish to have this endorsement listed on their secondary wallet card shall receive a new card which will contain the following information:

**API 1104 (year of examination)**



## Reference materials necessary

API 1104, *Welding of Pipelines and Related Facilities* - current exam edition.

The current exam edition can be found in the AWS CWI Body of Knowledge on the AWS website at <http://www.aws.org/certification/endorsebok>.

## Eligibility for initial certification or 9-year recertification

For new candidates to the CWI program, this examination may be chosen as the required open codebook examination. For existing CWIs, successful completion of this endorsement satisfies the re-examination requirements for 9-year recertification, provided that the endorsement is taken during the immediate 9-year period.

## Renewal requirements for this endorsement

This endorsement does not have any requirements for renewal. It will automatically be renewed at each CWI renewal or recertification. The endorsement will continue to be listed on the CWI card at the discretion of the individual CWI.

## Continuing education credits

40 PDHs will be awarded upon successful completion of this endorsement.

## Comments on special conditions or requirements

N/A

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Revision 1 – Pittsburgh, PA – July 26, 2012

Date of Certification Committee Approval: July 26, 2012

Effective Date: July 26, 2012