

Examination Structure and Body of Knowledge AWS Certified Welding Sales Representative

The Candidate shall pass a written examination to demonstrate knowledge of the capabilities listed in 5.2 of this AWS B5.14:2009. Recommended examination subjects and recommended subject weights are given in Table 1 below.

Table 1

Recommended Examination Subjects and Weights	
Examination Subject Percentage	(%)*
Gas metal arc welding (GMAW)	9%
Gas tungsten arc welding (GTAW)	9%
Flux-cored arc welding (FCAW)	9%
Shielded metal arc welding (SMAW)	9%
Submerged arc welding (SAW)	4%
Safety in welding, cutting, and related processes	4%
Safety in gas cylinder storage and handling	2%
Brazing and soldering	4%
AWS filler metal classification guidelines	9%
Shielding gas applications	9%
Welding terms and definitions	9%
Welding fume extracting and ventilation	4%
Basic electrical requirements of welding power supplies	4%
Cutting processes	4%
Welding procedures and procedure qualification records	2%
*Percentages indicate the <i>minimum</i> suggested percentage in each examination subject therefore the total given is less than 100%.	

RECOMMENDED SELF-STUDY FOR EXAMINATION

The examination questions shall be referenced from the following publications:

- ANSI Z49.1, *Safety in Welding, Cutting, and Allied Processes*
- AWS A3.0, *Standard Welding Terms and Definitions*
- AWS A5.01M/A5.01, *Procurement Guidelines for Consumables—Welding and Allied Processes—Flux and Gas Shielded Electrical Welding Processes*
- AWS A5.32/A5.32M, *Specification for Welding Shielding Gases*
- AWS F3.2M/F3.2, *Ventilation Guide for Weld Fume*
- *Brazing Handbook*, 5th Edition, American Welding Society
- *Modern Welding Technology*, 5th Edition, Howard Cary, Prentice Hall
- *Soldering Handbook*, 3rd Edition, American Welding Society
- *Welding Handbook Volume 1: Welding Science and Technology*, 9th Edition American Welding Society
- *Welding Handbook Volume 2: Welding Processes*, 9th Edition, American Welding Society