



Certification of Welding Coordination Personnel

Foreword

In order for the manufacturers to fabricate the welding construction which satisfy the quality requirements of the customer/user and maintain safe performance of the welding constructions through their service life, the welding coordination personnel having adequate technical knowledge, job competence, and experience in welding-related activities shall be engaged in welding coordination properly in the manufacturing organization.

In other words, good quality of welding constructions can be secured only through proper welding production executed under responsible control by welding coordination personnel who are engaged taking responsibility in deciding design, welding production plans, welding procedure specifications and inspection procedure specification.

This certification was established in 1970 for certifying welding coordination personnel on the basis of JIS Z 3400/ISO3834-2(Quality requirements for fusion welding of metallic materials-Part 2) and JIS Z3410/ISO14731 [Welding coordination-Tasks and responsibilities]

1.1 Reference standards

- JIS Z 3400/ ISO3834-2 : Quality requirements for fusion welding of metallic materials-Part 2
- JIS Z3410/ ISO14731 : Welding coordination-Tasks and responsibilities
- WES 8103 : Standard of Certification for Welding Coordination Personnel

1.2 Level of certification of welding coordination personnel

Table 1 Tasks, responsibilities, technical knowledge and job competence of welding coord. Personnel

Level Remarks	Senior Welding Engineer	Welding Engineer	Associate Welding Engineer
Tasks and responsibilities	Contract review , Design review, Materials, Subcontracting, Production planning, Equipment, Welding operation, Testing, Weld acceptance, Documentation	Materials, Subcontracting, Production planning, Equipment, Welding operation, Testing, Weld acceptance, Documentation	Materials, Equipment, Welding operation, Testing, Weld acceptance, Documentation
Technical knowledge and job competence	Comprehensive technical knowledge on welding and job competence of supervising welding production and process control	Specific technical knowledge on welding and competence of executing welding production and process control	Basic technical knowledge on welding and job competence of executing welding production

1.3 Access Conditions

Academic career or certification	Required years of job experience		
	Senior Welding Engineer	Welding Engineer	Associate Welding Engineer
① University/institute graduate of master degree (science or engineering)	2	1	1
② University/institute graduate of master degree (other than science or engineering)	5	3	1
③ University/institute graduate of bachelor degree (science or engineering)	3	2	1
④ University/institute graduate of bachelor degree (other than science or engineering)	6	4	2
⑤ 2-year college graduate (majoring in welding engineering)	5	3	1
⑥ 2-year college graduate (science or engineering)	6	4	1
⑦ 2-year college graduate (other than science or engineering)	10	7	4
⑧ Graduate of college of technology	6	4	1
⑨ Graduate of science or engineering special college	—	6	2
⑩ Technical high school graduate	—	7	2
⑪ High school graduate (other than technical)	—	8	4
⑫ Academic career other than ① to ⑬ above	—	—	7
⑬ Welding Engineer certificate holder	3	—	—
⑭ Associate Welding Engineer certificate holder	—	3	—

Notes: 1. Years of experience in Table 1 are the minimum requirement.

2. Required years of job experience shall be the years during which the applicant has been fully engaged in the welding-related jobs. If the applicant has not been fully engaged in the welding-related jobs, decision shall be made based on the actual state of the job.

3. The required years of experience after graduation from the school (①~⑫) or after getting the certificate (⑬, ⑭) shall be required as the years of experience.

1.4 Examination for Welding Coordination Personnel

Level	Subjects to be examined		Outline of written and oral examination (Fields of technical knowledge)
	Written Exam	Oral Exam	
SWE	Mandatory	Mandatory	1. Welding Processes and Equipments 2. Materials and their Behavior during Welding 3. Design and Construction 4. Fabrication & Application Engineering
WE	Mandatory	(exemption due to certificate of completion of training course)	
AWE	Mandatory		

1.5 Contact information:

1) **The Japan Welding Engineering Society (JWES)** (<http://www.jwes.or.jp>)

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