

The Japan Welding Engineering Society Indonesian Welding Society



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 servicelife, 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

Table1 Tasks, responsibilities, technical knowledge and job competence of welding coord. Personnel

Level	Senior Welding	Welding Engineer	Associate
Remarks	Engineer	B	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

	Required years of job experience		
Academic career or certification	Senior Welding Engineer	Welding Engineer	Associate Welding Engineer
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
③University/institute graduate of bachelor degree (science or engineering)	3	2	1
①University/institute graduate of bachelor degree (other than science or engineering)	6	4	2
⑤2-year college graduate (majoring in welding engineering)	5	3	1
⑥2-year college graduate (science or engineering)	6	4	1
72-year college graduate (other than science orengineering)	10	7	4
Graduate of college of technology	6	4	1
	_	6	2
10 Technical high school graduate	_	7	2
11)High school graduate (other than technical)	_	8	4
②Academic career other than ①to ③above	_	_	7
Welding Engineercertificate holder	3	_	_
(4) 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 $(1)\sim(12)$ 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		ubjects to be examined	Outline of written and oral examination	
Levei	WrittenExam	Oral Exam	(Fields of technical knowledge)	
SWE	Mandatory	Mandatory	Welding Processes and Equipments Amaterials and their Behavior during Welding Design and Construction Fabrication & Application Engineering	
WE	Mandatory	(exemptiondue to certificate of completion of		
AWE	Mandatory	training course)		

1.5 Contact information:

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