

Knowledge, skills and competence levels achieved for each qualification level and their correlation with ISO 14731

Type of Construction concerned	IWE	IWT	IWS	IWP
	Any type	With a low level of complexity	Regular and common	Basic specific works
Welding construction contract requirements	able to review			not able to perform
Technical review of the welding construction	able to perform the task			not able to perform
Subcontracting activities	able to specify requirements and assessment protocol, to supervise implementation and monitor			able to supervise implementation and monitor
Welding personnel and related personnel needs and competences/skills;	able to specify, supervise and manage			able to supervise the welding personnel and monitor
Equipment and means needed for the construction;	able to specify, validate and manage the equipment, including the calibration if needed			able to understand and supervise the proper use
Manufacturing plan;	able to specify, develop, validate and manage			able to monitor and implement
Welding procedures needed for the construction;	able to specify, develop, evaluate, validate and manage			able to understand, implement
Working instructions	able to specify, develop, evaluate and manage			able to understand, implement
Working instructions;	able to specify, develop, evaluate and manage			able to understand, implement
Base materials and welding consumables;	able to specify, validate and manage			able to monitor and supervise the proper use
Inspection Testing Plan;	able to specify, review, develop, evaluate, validate and manage			able to understand, implement and monitor
Heat treatments;	able to specify, develop, evaluate, validate and manage			able to understand, implement, supervise and monitor
Corrective actions to solve welded construction non-conformances;	able to specify, review, develop, evaluate, validate and manage			able to implement, monitor and control
Identification and traceability used in welding manufacturing;	able to specify, develop, evaluate, validate and manage processes			able to understand, control and supervise
Construction quality records.	able to specify, develop, evaluate, validate and manage processes related to monitor and control			able to collect, control, perform and supervise

IWE – Knowledge, Competence and Management

A candidate completing the IWE training under this program is expected to acquire advanced knowledge and critical understanding of welding technology application.

He / she shall have advanced competence and skills at a level that is required in the field of welding technology which demonstrate:

- technology mastery and required innovation.
- being able to solve high-level complex and unpredictable problems.
- the ability to manage high complex technical and professional activities or projects related to welding applications.
- taking responsibility for decision making in unpredictable work or study context
- taking responsibility for managing professional development of individuals and groups

IWT – Knowledge, Competence and Management

A candidate completing the IWT training under this program is expected to acquire an overall knowledge and understanding of welding technology applications.

He / she shall have competence and skills at a level that is required in the field of welding technology which demonstrate:

- being able to solve low-level complex problems.
- the ability to manage in detail the welding applications and related professional activities or projects.
- taking responsibility for decision making in low-level complex work or study context
- taking responsibility to define the tasks of welding or related personnel.
- being able to manage professional development of individuals and groups.

IWS – Knowledge, Competence and Management

A candidate completing the IWS training under this program is expected to acquire a specialized and factual knowledge in the field of welding technology.

He / she shall have competence and skills at a level that is required in the field of welding technology which demonstrate:

- being able to develop solutions on common/regular problems.
- being able to manage and supervise common or standard welding applications and related professional activities
- taking responsibility for decision making in common or standard work
- taking responsibility to supervise the tasks of welding and related personnel.

IWP – Knowledge, Competence and Management

A candidate completing the IWP training under this program is expected to acquire a basic knowledge in the field of welding technology.

He / she shall have competence and skills at a level that is required in the field of welding technology which demonstrate:

- being able to develop solutions on basic and specific problems.
- being able to supervise basic welding applications and related professional activities.
- taking responsibility for decision making in basic work
- taking responsibility to supervise the tasks of welding and related personnel.