

European Qualification Framework (EQF) Level 2 – Qualified employees in the Metals Industry			
	Knowledge	Skills	Competence
	Theoretical and factual knowledge for the occupation.	Use and apply the knowledge acquired or available for the production of specified work-pieces (test work-pieces – conforming to level 2).	Use the knowledge and skills available in the occupation for professional and personal development.
A	<p>Know all about the materials and consumables used in the metal processing industry. Select these professionally and also be well aware of legal provisions concerning their disposal;</p> <ul style="list-style-type: none"> • Types; properties; standardisation; handling; application; disposal. 	<p>Based on the work-pieces to be produced, select the right materials and consumables from the drawing or other occupational aids, and verify that the selection is correct (with the specifications furnished in the drawing) prior to commencement of production. Arrange for professional disposal of waste material generated after the production of the work-pieces;</p>	<p>Carry out the selection of materials and consumables for a given work-piece or construction independently, conforming to specifications furnished in drawings or in work instructions, process slips or other occupational aids. Arrange for the disposal of production-related waste independently;</p>
B	<p>Know all about tools, machinery, devices, equipment and occupational aids;</p> <ul style="list-style-type: none"> • Types; design; application; working principle. <p>Must be able to name the areas of application of these tools, machinery, equipment and occupational aids. Must be able to describe the servicing and repair of the tools, machinery, equipment and occupational aids;</p>	<p>Select the tools, machinery, devices and equipment required for the production of the work-pieces correctly and maintain them (Safety, orderliness and cleanliness);</p>	<p>Arrive at the proper application of the tools, machinery, devices and equipment available in consultation with a supervisor. Be solely and independently responsible for orderliness and cleanliness in the field of operation;</p>

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C	Have good knowledge about machinery elements; • Standards; fittings and tolerances; bearings; connecting and fixing elements; safety elements	Manufacture work-pieces within the specified tolerance limits. Execute fittings in the work-pieces and constructions professionally. Use the connecting and fixing elements professionally;	Be able to connect or fix work-pieces or constructions to the machine elements professionally. Manufacture work-pieces or constructions conforming to tolerances specified in drawings under the supervision of a superior;
D	Be able to read and comprehend technical drawings or occupational aids;	Understand the specifications given in the drawings (degree of finish, dimensions with tolerances, surface specifications, and processing steps to be complied with);	Be able to understand workshop drawings and sketches in his / her field of operation. Involve the supervisor(s) in case of doubts or clarifications to seek a solution;
E	Be able to read and comprehend technical documentation • Installation instructions; manuals; standard specifications sheets; maintenance instructions;	Service and maintain the equipment in a workshop (training workshop) in conformity with the maintenance and service plans. Keep appropriate and relevant records of the maintenance work carried out;	Carry out the required service and maintenance of the equipment in the assigned area of work in consultation with the supervisor. Routine maintenance activities are carried out independently and documented.
F	Have good knowledge about manufacturing techniques (work procedures); • Scribing; filing; measuring; sawing, machine sawing; boring and grinding; tapping; riveting and chiselling; aligning and bending; polishing;	Implement the individual steps of production professionally when manufacturing work-pieces. Manufacture the work-pieces professionally conforming to the specified drawing and in the correct sequence of the process steps;	Manufacture constructions or sub-constructions under the supervision of a superior professionally and conforming to the specifications. Carry out routine work on constructions independently;
G	Have adequate knowledge regarding	Check individual process steps during	The finished construction parts or materials

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	prevalent measurement techniques and test methods; <ul style="list-style-type: none"> Measuring and monitoring; measuring and test instruments; calibration of measuring instruments 	production of the work-pieces for proper execution (conformity to dimensions, tolerances) using the measuring and test instruments. Be able to check measuring and test instruments for proper functioning prior to using them;	to be processed are checked and verified independently for specifications relevant to the field of operation (dimensions, angles, completeness of processing, surface properties);
H	Possess good knowledge about prevalent welding techniques. <ul style="list-style-type: none"> Welding metallurgy and material behaviour; types of welding and their application 	Select the right welding process. Be able to carry out simple welding work on one's own;	Prepare constructions professionally under the supervision of a welding supervisor for welding work (conforming to WPS or details specified in a drawing). Rivet constructions and make simple welded joints (hollow seams) under the supervision of a welding supervisor (if certification of the welder is not foreseen).
I	Have good knowledge about the safety regulations relevant for the field of operations and be able to describe the personal safety gear for the same;	Must be able to locate the regulations mandatory for display in the workshop and must know those relevant for the field of operations. Use personal safety gear meant for the given field of operations;	Must protect oneself from accidents with the help of personal safety gear. Indicate risk of accidents in the work environment independently and mitigate them where possible.

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The knowledge, skills and competence are related to level 2 of the European Qualification Framework. From the organisation’s point of view, there is no purpose in specifying the knowledge, skills and competence for level 1 for employees engaged in the Metals Industry. This area will continue to be covered by auxiliary manpower, for which no specific demands are placed on the knowledge, skills and competence, and, thus, the gradation (salary structure) takes place in accordance with class B of the collective agreement for the iron and metal producing and processing industry.

The contents of this competency matrix have been arrived at on the basis of discussions held with responsible employees and their needs and requirements. They also cover the scope of training for job descriptions in the metals industry for vocational training and one of the apprenticeship programs regulated and conducted in Austria (Skilled worker certification). Since the contents are quite comprehensive in scope, it may be considered that the competence established by the certification is one of lifelong learning, in the context of vocational training in accordance with the Austrian law of professional education and training.

Competence is established and verified as part of the certification process by the production a sample work-piece conforming to a specified drawing. The drawing is issued by an examiner. In case of doubts, clarifications may be sought from the examiner with respect to the performance or execution. The basic materials and the tools are provided to the candidates undergoing the examination. The candidate undergoing the examination can also use his / her personal handheld tool. Proper execution must be confirmed by the candidate undergoing the examination in a test report. After completing the job, technical discussions are held regarding the work-piece produced with the candidate undergoing the examination. The theoretical and factual knowledge level of the candidate is established for the specific field of operation in the course of the technical discussions.

If both parts of the examination are passed successfully, the degree “Qualified Employee for the Metals Industry” can be conferred on the candidate. The certification regarding the competence is valid for a period of 3 years initially, and can be extended by another 3 years in the event that the candidate has been engaged professionally and successfully in the certified field of competence. The employer must furnish proof or evidence regarding professional and proper work in the relevant field of operation.

