Private Institution Center for Adult Education HARTMANN & MAYER BRCKO DISTRICT BOSNIA AND HERZEGOVINA



CURRICULUM FOR EDUCATION OF STUDENTS FOR THE TITLE OF MASTER WELDER (V DEGREE)

Brief description of the profession of master welder:

The aim of the program is to improve skills and knowledge needed to successfully:

- perform welding (planning, preparation, execution and quality control),
- use tools, energy, materials and time,
- -improve welding skills by manual arc welding (coated electrode),
- acquire arc welding skills in a protective atmosphere,
- train for joining parts by resistance welding,
- acquire welding skills by gas welding, as well as other welding processes
- work on machines for welding procedures: MIG, MAG, TIG, EPP, welding with filled wire,
- improve skills of joining parts by soft and hard soldering,
- train control and testing of welded joints and elimination of defects in welded joints,
- train commercial and administrative tasks in the field of welding,
- develop the ability to properly apply quality standards and
- acquire knowledge on the proper application of regulations on occupational safety, the use of protective equipment and environmental protection.

Prerequisite for enrollment:

Candidates for the profession of master welder must have a diploma in the acquired profession of skilled workers and at least two years of practice in the profession.

Aims and objectives of the educational program:

- Acquisition of knowledge, skills and habits that will enable the pursuit of the profession: master welder
- Adopt knowledge of the importance of organizing the work of irrational use of energy.
- Get to know and instruct the students on the protection of nature, the preservation of health and a healthy human environment.
- Get acquainted with the basic properties, obtaining and applying the most important technical materials.
- To enable a student to choose the material according to the request of the technical drawing.
- Get to know how to read and apply draftsmanships in the maintenance of parts, assemblies or products.
- Be able to make simple draftsmanships.
- Get acquainted with the main parts of measuring tools, principles and rules of operation.
- Be able to apply measurements in practice.
- Get acquainted with the most important procedures of manual and machine processing by separating particles.
- Adopt the concepts of heat treatment.
- Be able to choose and apply the most important surface protection procedures.
- Get acquainted with the elements of power transmission and motion.
- Get to know and be able to make metal lock parts
- Get to know and be able to install parts, assemblies and systems in the profession for which they study.
- Be able to develop the technological process of making a metal fence and be able to make simple metal fences.
- Get to know how to develop the technological process of making metal structures and be able to make simple

metal structures.

- Be able to develop the technological process of making metal doors and simple metal doors.
- Be able to develop the technological process of making a metal window and simple metal windows.
- Be able to develop the technological process of making metal stairs and simple metal stairs.

- -Get to know how to develop the technological process of making a metal tank and simple metal
- Get to know how to choose elements and assemble simple pneumatic systems.
- Get to know how to choose elements and assemble simple hydraulic systems. Get to know and be able to benefit:

CURRICULUM FOR THE PROFESSIONAL TITLE MASTER **WELDER**

No.	Course title	I semester total classes	I semester 20 weeks	II semester total classes	II semester 10 weeks	Total
B)	Common educational basis					
1	Bosnian language and literature Serbian language and literature Croatian language and literature	2	40	-	-	40
2	Management	2	40	-	-	40
3	Mathematics	2	40	2	20	60
B) Common basics of profession						
4	Technical mechanics	2	40	-	-	40
5	Mechanical constructions	2	40	2	20	60
6	Measurement and control	2	40	-	-	40
7	Safety at work	-	-	3	30	30
8	Automation	2	40	-	-	40
9	Mechanical technology	2	40	2	20	60
10	Production oganization	2	40	-	-	40
	ocational education					
11	Occupational technology	3	60	3	30	90
12	Practical classes	7	140	7	70	210
	TOTAL:	28	560	19	190	750