

Private Institution Center for Adult Education

HARTMANN & MAYER BRCKO DISTRICT BOSNIA AND HERZEGOVINA



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

### **Brief description of the profession of masterplumber:**

Master plumber is a very complex and responsible profile of the profession. In order for a person to be able to perform the tasks and duties of this responsible profession, it is necessary to acquire a high level of knowledge, abilities and skills through the process of professional development. The basic tasks and work tasks that occur in the work process are:

- to acquire knowledge about the importance of work organization and rational use of energy.
- to recognize the importance of working safely, and apply safety rules at work in preserving health and the human environment.
- to get acquainted with the basic properties and application of technical materials installed in plumbing installations.
- to be able to choose the material according to the requirements of the technical drawing.
- to be able to use computers independently in the profession.
- to be able to read and apply technical instructions in the form of drawings, diagrams and symbolic representations.
- to know how to make draftsmanship.
- to be able to apply measurements in practice.
- to get acquainted with the procedures of manual, machine and heat treatment and the procedures of joining and processing by plastic deformation.
- to get acquainted with the behavior of materials towards corrosion and apply the most important surface protection procedures.
- to know how to select, replace, properly install and secure machine and device elements.
- to get acquainted with individual components of the water supply system as a functional unit.
- to understand the principles of operation of basic assemblies (systems) of the water supply network.

### **Prerequisite for enrollment:**

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

### **Aims and objectives of the educational program:**

- Acquiring knowledge, skills and habits that will enable the performance of work with animation: master plumber
- Adopt the knowledge of the importance of work organization and rational 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.
- Enable the student to choose the material according to the request of the technical drawing.
- Get to know how to read and apply draftsmanship in the maintenance of parts, assemblies or products.
- Be able to make simple draftsmanship.
- 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 plastic processing.
- Get acquainted with the tools, working principle and procedures of individual plastic treatments.
- Be able to choose and apply tools and procedures of individual plastic treatments in the creation of a particular task.
- Adopt merger procedures.
- Be able to choose and apply tools and procedures in the connection and assembly of a particular task.
- Adopt the concepts of casting application and metallurgy of casting.
- Get acquainted with casting procedures.
- Adopt the concepts of heat treatment.
- Get acquainted with heating stoves and coolants.
- Be able to choose and apply the most important heat treatment procedures.
- Adopt basic concepts of corrosion.
- Get acquainted with the behavior of materials towards corrosion.
- Be able to choose and apply the most important surface protection procedures.
- Get to know and be able to install parts, assemblies and systems in the profession for which he is studying.
- 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 use professional literature.
- Train for lifelong learning.

## CURRICULUM FOR THE PROFESSIONAL TITLE MASTER PLUMBER

No.	Course title	I semester total classes	I semester 20 weeks	II semester total classes	II semester 10 weeks	Total
<b>A) Common educational basis</b>						
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>B) Common basics of the profession</b>						
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 organization	2	40	-	-	40
<b>C) Vocational education</b>						
11	Occupational technology	3	60	3	30	90
12	Practical classes	7	140	7	70	210
<b>TOTAL :</b>		<b>28</b>	<b>560</b>	<b>19</b>	<b>190</b>	<b>750</b>