

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



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

Brief description of the profession master car mechanic

Car mechanics - masters repair and service cars and smaller trucks. The basic job of a car mechanic is to identify and eliminate engine failures and damages. In order to do their job well, they need to know the parts and principle of operation of the engine, as well as thermal and hydraulic laws and processes.

Prerequisite for enrollment:

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

CURRICULUM FOR THE PROFESSIONAL TITLE: MASTER CAR MECHANIC

No.	Course title	I semester total classes	I semester 20 weeks	II semester total classes	II semester 10 weeks	Total
A) A) 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	Production organization	2	40	-	-	40
9	Engines and motor vehicles	1	20	-	-	20
C) Vocational education						

11	Material technology	2	40	-	-	40
12	Dynamics of motor vehicles	3	60	-	-	60
13	Operation of motor vehicles			3	30	30
14	Maintenance and repair of engines and vehicles	7	140	7	70	210
	TOTAL :	27	540	21	210	680

Aims and objectives of the educational program:

- Acquisition of knowledge, skills and habits that will enable the performance of jobs in the profession: car mechanic - master.
- Adopt knowledge about the importance of work organization and rational use of energy.
- Introduce and instruct students on safety at work, health and healthy human environment.
- Get acquainted with the basic properties, obtaining and application of the most important technical materials.
- To enable students to choose the material according to the requirements of draftsmanships.
- Know and understand to read and apply draftmanships 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 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.
- Familiarize 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 acquainted with the elements of power transmission and motion.
- Get to know and be able to install parts, assemblies and systems in the profession for which they are studying.

- Be able 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 know how to make simple metal doors.
- Be able to develop the technological process of making a metal window and know how to make simple metal windows.
- Be able to develop the technological process of making metal stairs and know how to make simple metal stairs.
- Be able to develop the technological process of making a metal tank and know how to make simple metal tanks.
- 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.