JOBS AND PROFESSIONS IN AUTOMOBILE INDUSTRY

I. Evocation.

1. Task: explain the motto and say if it is about you.

Passion for automobiles – innovative minds in engineering.

2. Task: match the pictures and the actions.

1) produce 2) maintenance 3) design 4) research 5) install 6) taste

a. 

b. 

c. 

_____ _____ _____

d. 

e. 

f. 

_____ _____ _____

II. Realization.

3. Task: read the text and share with your partners the advantages of the profession Automobile engineer.

Automobile engineering is one of the oldest branches of mechanical engineering. Traditionally, automobile engineers have to deal with concept such as mechanics, thermodynamics, robotics, kinematics, structural analysis, fluid mechanics and many others. These concepts are applied in the process of designing state-of-the-art manufacturing units, different types of motor vehicles.

Automobile engineers also contribute in the development of the different engines, power plant equipment, heating and cooling systems and others. Engineers not only design new automobile systems but they are also responsible for testing, maintaining and manufacturing them.

Moreover nowadays automobile engineers are focusing their attention towards new areas of research such as nanotechnology, development of composite materials, biomedical applications, environmental conversation, etc.

The ever increasing scope of this particular job profile now requires professionals to get into financial and marketing aspects of product development and even into people and resource management. Besides, automobile engineering offers a wide bouquet of job options to those who are looking for a stable and stimulating career. Such as design, test, manufacture, install, operate

and maintain of cars and car systems. These professionals can find employment both in the government and private sector.

There is also great requirement for automobile engineer consultants who have management skills along with technical proficiency. The primary role of such professionals is to manage both technology and people and firms that provide engineering consultancy require them.

Various engineering colleges, polytechnics and Centers of Excellence in Transport across the country are doing their best to teach high skilled automobile engineering professionals.

Highly qualified professionals from this field often seek suitable employment in foreign countries. It is not that only highly qualified automobile engineers get opportunity to work abroad. If you are employed in a multinational company, you may also get the chance to work on international projects.

4. **Automobile engineering includes a lot of branches. So the roles and responsibilities held by an automobile engineer are different and depend on the area of specialization and the branch he is working for. In broad terms, the job profile of automobile engineers can be classified into some functional segments.**

Task: match the job profile with the proper responsibility.

1. Research and Development	**a. primary role is to ensure that automobile works well, looks good and all its systems are fine**
2. Design	**b. the job profile is to investigate and to expand the new models and their constituent parts**
3. Production	**c. examination of different car models and their parts to ensure that they function flawlessly**
4. Analysis and testing	**d. the responsibility is to draft technical drawings, manually or with the aid of computers.**
5. Installation	**e. fixation of different car layouts on their locations**
6. Maintenance	**f. manufacturing of mechanical components and the whole product**

5. Task: brainstorm the roles and responsibilities in borders of your own job profile.

6. Task: complete the table.

Noun	Adjective	Verb	Adverb
Industry		☺	☺
		to produce	
	☺	to design	☺
		☺	technologically
	☺	to require	☺
	efficient	☺	
		☺	safely
	☺	to maintain	☺
comfort		☺	
ecology		☺	
		to resist	☺
			operationally
	☺	to accelerate	☺
construction			

7. Task: match the parts of the sentences choosing appropriate variant.

1. An automobile specialist deals with …	a. working out technological processes. b. constructing and manufacturing cars. c. producing new resistant to corrosion light materials.
2. The production of the automobile comprises …	**a.** designing and mass production. **b.** manufacturing and tests. **c.** designing and working out technological processes, laboratory and road tests and mass production.
3. The cars are subjected to tests in order …	**a.** to work out new technological processes. **b.** to meet up-to-date requirements. **c.** to shorten the time between designing and manufacturing.
4. The qualities required of the automobile are …	**a.** high efficiency, long service life, driving safety and pleasant appearance. **b.** smooth acting clutch, silent gearbox, dependable braking and steering systems. **c.** new types of resistant to corrosion materials.
5. The car must have the following units: …	**a.** high efficiency, long service life, driving safety and pleasant appearance; **b.** smooth-acting clutch, silent gearbox, dependable braking and steering systems; **c.** new types of resistant to corrosion materials.

8. Task: check up your choice; try to role-play the dialogue with your partner.

Anton: Where do you study?
Boris: I study at the Centre of Excellence in Transport.
A: Whom does the Centre train?
B: It trains specialists for the automobile industry.
A: Why did you decide to become a technician?
B: I enjoy working with machines. I enjoy learning about a car. I understand every part of it.
A: What can you tell me about the car?
B: Well, the car of today must be rapid in acceleration; it must have dependable clutch, brakes, and steering system, be stable on the road and have pleasant appearance.
A: Do you enjoy the course?
B: Yes, very much. I have learned a lot of things. For example, I know that the production of the car comprises five phases.
A: What are they?
B: They are designing, working out the technology, laboratory tests, road tests, mass production.
A: And why are laboratory and road tests needed?
B: The cars are subjected to tests in order to meet up-to-date demands.
A: And what are these demands?
B: They are high efficiency, long service life, driving safety, ease of maintenance and so on.
A: I think you will become an expert in automobile engineering.
B: I'll try. The cooperative plan of an academic program with practice at a plant will help me to become a good specialist.

9. Task: answer the questions, use phrases from the dialogue.

1. What public institution do you study at?
2. What will you become after graduating from the institution?
3. What will you deal with?
4. What phases does the production of the automobile comprise?
5. Why are the cars subjected to laboratory and road tests?
6. What qualities must the car have?
7. What units must the car have?

III. Reflection.

10. Task: fill in the gaps with the collocations from the box.

Send application, leave fingerprints, design drafts, daily routine, successful completion, large-scale company, longstanding partner, invest generously, experienced supervisors, core area.

1. Because of its _____Mercedes-Benz the company Rehau has been recognized as a leader in producing polymers for automobile industry.
2. The _____of automobile building is thermodynamics.
3. This company has a rather intense _____ and rather strict requirements.
4. Without doubt Henry Ford _____ his _____ in the history of auto industry.
5. Have you _____ with CV and photo to that auto service company?
6. Mitsubishi is a _____ known all over the world.
7. The meeting was guided by the _____ from the head company.
8. Our specialized _____ for stamping, welding and assembly components adheres to quality and ergonomics for better final products.

9. Your experience and skills will no doubt lead you to a _____ of additional professional courses.

10. Foreign companies started to_____ in automobile production in Russia.

11. Working at any manufacturing or service automobile company you will answer some kinds of questions every day. Think about them just now.

Task: discuss with your partners in small groups.

- In a few years, what will driving enjoyment feel like?
- How can automobiles be made safer?
- How does a car reach series-production?
- What will we see on the streets in five years?

IV. Extension.

12. You are not far from successful completing the Centre of Excellence in Transport. Tell about your plans on appropriate future. Where are you going to work after getting the Diploma?