



**State exam questions
Mechanical Engineering BSc
Automotive Production Process Control specialization**

Automotive Process Analysis and Planning

1. What does operations strategy mean, what are its main decision areas?
2. List and describe the basic process types.
3. Describe the main types of layout designs and explain what line balancing means!
4. What is the goal of job design? Compare its two basic approaches.
5. Describe the elements of a work system and outline the types of processes and times!
6. What is the goal of the work measurement? List the methods of work measurement and explain stopwatch time study in detail!
7. What are the principles of the lean management? List and explain the wastes according to lean philosophy!
8. Definition of supply chain! Introduction of supply chain configuration and the extent of vertical integration!
9. Introduction of the tasks and the process of procurement! Tools for supplier selection!
10. The Economic Order-Quantity (EOQ) Model! ABC-/XYZ Analysis!