Progress assessment

The following materials refer to the course MS&S and are to be used for everyday and progress assessment.

Test 1

- 1. Denote the geometric parameters in a diagram of the lathe cutter.
- 2. Specify the zones of plastic deformation in the area of chip formation.
- 3. Cutting tool materials: basic types, codification, chemical composition, maximum cutting speed and area of application.

Test 2

- 1. Area and types (nature) of wear, wear criteria.
- 2. How to determine the optimum tool life? The optimum tool life of a carbide cutter used for roughing operations performed on universal machine tools and semi-finishing operations performed on the CNC machines.
- 3. Functions and types of coolant.

Test 3

- 1. Hole machining operations, parameters and accuracy.
- 2. Two schemes of milling, advantages and disadvantages.
- 3. The most common tool materials and types of milling cutters.

Test 4

- 1. Types of grinding operations and abrasives.
- 2. Codification of grinding wheels (indication of the abrasive type, grain size, structure, bond type, etc.).
- 3. The procedure of selection and calculation of grinding parameters and power.