

1. TITLE OF THE CERTIFICATE (CZ) <sup>(1)</sup>

**Vysvědčení o maturitní zkoušce z oboru vzdělání:  
23-41-M/001 Strojírenství**

<sup>(1)</sup> In the original language

2. TRANSLATED TITLE OF THE CERTIFICATE <sup>(2)</sup>

**Maturita Certificate in:  
23-41-M/001 Mechanical Engineering**

<sup>(2)</sup> If applicable. This translation has no legal status.

## 3. PROFILE OF SKILLS AND COMPETENCES

**General competences:**

- to be well informed about culture, history and the present-day Czech nation within a European and world context;
- to formulate views and attitudes verbally and in writing, communicate in at least one other foreign language;
- to be able to adapt themselves to the changing conditions of life and work, work well in a team and to be responsible for assigned tasks;
- to work with information, use ICT;
- to be able to use basic mathematics and the basic principles of physics and chemistry when needed;
- to know the present rights and duties of employers and employees and know how to conduct a job search;
- to act in an environmentally-conscious manner and in compliance with strategies for sustainability;
- to know the fundamentals of health, occupational safety, and fire prevention and safety.

**Vocational competences:**

- to design and construct machine components, parts of machines, tools, fixtures and other equipment, technological equipment for workplaces (including computer-aided design);
- to select suitable materials for products and propose heat treatments and surface finishes;
- to know basic product technologies, propose suitable production procedures, be familiar with technical equipment: tools, production equipment and the conditions of technology;
- to program NC simple motion cycles and other programmable automats;
- to evaluate the technical state of machines and equipment; to diagnose defects, know inspection procedures, perform maintenance and repairs, as well as to keep records on those procedures;
- to measure basic technical and electrical quantities, use standards, and know the fundamentals of quality control;
- to apply basic economic principles for the industrial engineering and management of SMEs.

4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE <sup>(3)</sup>

The graduate can take a job in technical and economic positions at the mid-managerial level in the field of mechanical engineering (e.g. energy industry, mechanical engineering, transport, agriculture, etc.). He or she can be engaged in the design, construction, and technology of production processes as well as the management of production. In addition, they can also be employed in sales and technical services and maintenance of machines, equipment and means of transport, etc. There is also a possibility of employment in a private business.

Examples of possible work positions: designer, planner, production supervisor, technician, foreman in production, production manager, workshop planner, quality supervisor, investments technician, engineering technician, operations manager, etc.

<sup>(3)</sup> If applicable

## 5. OFFICIAL BASIS OF THE CERTIFICATE

<b>Name and status of the body awarding the certificate</b> Střední průmyslová škola strojnická Olomouc třída 17. listopadu 49 772 11 Olomouc, CZ public school	<b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b> Ministry of Education, Youth and Sports Karmelitska 7 118 12 Prague 1 Czech Republic
<b>Level of the certificate (national or international)</b>  Upper secondary education completed by the Maturita examination  <b>ISCED 3A</b>	<b>Grading scale / Pass requirements</b> 1 excellent (výborný) 2 very good (chvalitebný) 3 good (dobrý) 4 satisfactory (dostatečný) 5 fail (nedostatečný) <i>Overall assessment:</i> Prospěl s vyznamenáním: Pass with Honours (the average mark is $\leq 1,5$ ) Prospěl: Pass (an examination mark is not worse than 4) Neprospěl: Fail (the examination mark in one or more subjects is 5)
<b>Access to next level of education / training</b> Higher education – ISCED 5A/5B Post-secondary technical education – ISCED 5B	<b>International agreements</b>
<b>Legal basis</b> Law No. 561/2004 on pre-school, basic, secondary, post-secondary and other education (School Act)	

## 6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

Description of vocational education and training received	Percentage of total programme (%)	Duration (hours / weeks / months / years)
• School- / training centre-based	87,26	137 weeks
• Workplace-based	12,74	20 weeks
• Accredited prior learning		
<b>Total duration of the education / training leading to the certificate</b>		<b>4 years / 157 weeks</b>

### Entry requirements

Completed compulsory school education

### Additional information

More information (including a description of the national qualifications system) available at:  
[www.nuov.cz](http://www.nuov.cz) and [www.eurydice.org](http://www.eurydice.org)

National Institute of Technical and Vocational Education – National Centre Europass

Weilova 1271/6  
 102 00 Prague 10

Prague, 27.6. 2008



*[Handwritten signature]*  
 stamp and signature

### (\*) Explanatory note

This document is designed to provide additional information about the specified certificate and does not have any legal status in itself. The format of the description is based on the following texts: Council Resolution 93/C 49/01 of 3 December 1992 on the transparency of qualifications, Council Resolution 96/C 224/04 of 15 July 1996 on the transparency of vocational training certificates, and Recommendation 2001/613/EC of the European Parliament and of the Council of 10 July 2001 on mobility within the Community for students, persons undergoing training, volunteers, teachers and trainers.

More information available at: <http://europass.cedefop.eu.int>, [www.europass.cz](http://www.europass.cz)

© European Communities 2002