



KOPERNIKUSZ

NETWORK FOR EUROPEAN PROJECT DEVELOPMENT



Education and Culture DG

Lifelong Learning Programme

Identifying vocational competence in the metal and electrical sector as illustrated by two vocations Mechatronics technician and Metal cutting worker

Leonardo da Vinci Programme

Project no. DE/07/LLP-LdV/TOI/147036

Vocational training in Hungary

Obligatory education : 5 – 18 years

Vocational training from 11th grade (16 years)

2 different types of schools (within the educational system) for students above 14 years (after 8 years of elementary school) :

a) 4 years; 1- 2 year : preparation, basic training

3 – 4 year : professional training

—————> ISCED 2C or 3C

b) 5 or more years ;

1- 4 year : secondary school with maturity exam + preparation, basic training

Post –secondary vocational education

(since 1998)

For students over 18 with maturity exam

4 semesters —————> ISCED 5B

National list of vocational qualifications (OKJ)

Since 1993 —————> several modifications

Latest version : 2006 (400 different types of qualifications in 21 professional categories)

- modular, transferability

- courses can be built one upon another to achieve a higher qualification

- Identified by a code of maximum 15 characters

Milling worker 31 521 09 10000 00 00

31 – medium level (can be started with elementary school qualification)

5 – within the category of mechanical qualifications

Grant Agreement No. 2007- 103467/TRA-EQF-DE-EACEA
Initiative to develop a Sector Qualifications Framework (SQF) for the Metal and Electric
Industry in Europe
METAL QF
Vocational Education in Hungary

Mechatronical technician : 52 523 03 0000 00 00

Medium level (can be started with maturity exam)

<http://www.okj2006.hu>

Description of qualifications

Responsible for vocational training – Ministry of Education

Adult training – Ministry of Labour

Some of the qualifications are available only through the educational system but most of them are available through other types of trainings, as well

Within the educational system :

- The preparation and basic training is planned by the schools according to the National Core Curriculum

The various ministries are responsible for the definition of professional and examination requirements for all OKJ qualifications

For each qualification on the National List there is a document describing the professional and examination requirements:

- the necessary level of preliminary training;**
- duration;**
- proportion of practical and classroom training;**
- most significant tasks and requirements typical of the activity;**
- necessary professional and personal competences and skills;**
- the elements and contents of the exam**

The jobs / positions that can be fulfilled with the qualification are categorized in the FEOR system (Uniform Classification System of Professions) which follows the structure of the international ISCO-88 system (international Standard Classification of Occupations)

Within FEOR there are 632 occupations divided into 10 main categories

The occupation „Milling worker” can be found within the main category

Industry and building industry

Iron and metal industry

Metal processing and surface treatment

Short description of tasks, a list of most typical jobs

List of other similar occupations

Necessary level of qualification

**the qualification „Mechatronic technician” corresponds to
“electronic technician” in the FEOR system**

Industry and building industry

Iron and metal industry

Technicians

Metal cutting worker

Professional and examination requirements

1. Identification number

2. Denomination

3. Necessary pre-training

4. Partial qualifications that can be extended to : metal cutting worker with further training :

- turner**

- gear cutting worker**

- tool sharpener for sawing industry**

- grinder**

- . The most typical occupation – metal cutting worker**
- . Brief description of the job**
- . Related qualification**
- . Professional requirements : Description of tasks for modules**
 - .1. General mechanical labour safety, accident and fire prevention and environmental protection tasks**
 - Description of tasks**
 - Description of competencies (professional and personal)**
 - .2. General material tests and geometric measurements**
 - .3. General mechanical technology tasks II. (milling)**
 - .4. Mechanical milling tasks**

- 6 Complementary modul I. for turners**
- 7. Gear cutting tasks**
- 8. Complementary modul II. for gear cutting workers**
- 9. Sawing tool sharpening tasks**
- 10. Complementary modul III. for tool sharpening workers**
- 11 Grinder tasks**
- 12. Complementary modul IV. for grinders**
- 13. Milling tasks**
- 14. Complementary modul V. for milling worker**

Mechatronic technician

Professional and examination requirements

1. Identification number

2. Denomination

3. Necessary pre-training (maturity exam)

4. Partial qualifications that can be extended to : mechatronic technician : mechatronic mechanic

5. FEOR number of occupation : 7443 (electronic technician)

6. Duration of training : 2 years

1. Brief description of the work field

2. Description of tasks and competencies for modules

2.1 Basic activity in the field of information technology, work organization and planning, technology

2.2. Preparation and documentation of mechatronic work

2.3. Preparation and control of mechatronic production

2.4. Production, operation and maintenance of mechatronical elements

2.5. Assembly of mechatronical equipment

2.6. Regulations and control of mechatronical systems

3. Examination requirements

4. List of equipments



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