Leonardo da Vinci Programme
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Education and Culture DG
Lifelong Learning Programme

Project COMMET Work Package IV Country: Hungary

Mechatronic technician

Modules :

1. **Activities regarding information technologies, work organization and planning**
2. Preparation and documentation of mechatronic activities
3. Preparation and control of mechatronic production
4. Production, operation and maintenance of mechatronic components
5. Repair of mechatronic equipment
6. Control of mechatronic systems

Competence dimension				
Phases of the complete activity	**Specialist competence**	**Methodological competence**	**Social competence**	**Personal competence**
Analysing	**Able to** read and interpret technical designs and descriptions; **Able to** define the sequence of operations and necessary material; **Able to** select the tools and equipment necessary for the operation;	**Able to** use hardware and software; **Able to** use office software in an individual and also integrated way; **Able to** use simple multimedia and communication applications; **Able to** use LAN and WAN networks; **Able to** understand simple English texts in the field of IT; **Able to** read and interpret technical	**Able to** compose in a clear way	**Able to** think in a logical way; **Able to** make a global view of things and situations; **Able to** systematize; **Able to** apply knowledge in an appropriate way; **Able to** work in a methodical way; **Able to** interpret tasks in a practical way; **Able to** focus attention; **Able to** share attention

		drawings; **Able to** read and interpret circuit diagrams; **Able to** read and interpret flow charts; **Able to** read and interpret diagrams, nomograms; **Able to** interpret complex signal systems		
Planning	**Able to** prepare drafts regarding the different work phases, operations;	**Able to** make technical drawings; **Able to** make read circuit diagrams; **Able to** make flow charts; **Able to** make diagrams, nomograms;		**Able to** think in a logical way; **Able to** make a global view of things and situations; **Able to** systematize; **Able to** apply knowledge in an appropriate way; **Able to** work in a methodical way; **Able to** interpret tasks in a practical way; **Able to** focus attention; **Able to** share attention
Performance	**Able to** make measurments with mechanic and electric instruments, tools; **Able to** process metal and plastic pieces (cutting, drilling, sawing,bending, rasping, polishing **Able to** make electric and mechanicconnections; Able to use small machines, tools in technological operations		**Able to** solve conflicts; **Able to** be flexible in communication; **Able to** make presentations; **Able to** make contacts; **Able to** behave in a polite way; **Able to** make compromises	**Able to** apply knowledge in an appropriate way; **Able to** work in a methodical way; **Able to** interpret tasks in a practical way; **Able to** focus attention; **Able to** share attention **Able to** work in a cautious way; Good manual skills; Good motor coordination;
Checking				
Documentation	**Able to** prepare records of the work operations completed	**Able to** save data and use information security tools; **Able to** document IT activity	**Able to** compose in a clear way; **Able to** make presentations	**Able to** apply knowledge in an appropriate way; **Able to** work in a methodical way;

				Able to interpret tasks in a practical way; **Able to** focus attention; **Able to** share attention
Evaluating				

Metal-cutting technician

Modules :

7. General labour safety and fire prevention tasks in machine productiom
8. General technological tasks int he field of machine production (metal cutting)
9. Measure room tasks
10. **Production planning and management tasks**
11. CNC machine operation
12. Maintenance, operation, installing

Competence dimension				
Phases of the complete activity	**Specialist competence**	**Methodological competence**	**Social competence**	**Personal competence**
Analysing	**Able to** define the necessary tools and machines; **Able to** select the tools and machines; **Able to** define processing margins and operation tolerance limits; **Able to** define and select material and semi-product needs; **Able to** prescribe materials, semi-products, tools, machines,	**Able to** interpret tasks in a practical way; **Able to** make a global view of tasks and situations; **Able to** think in an abstract way; **Able to** make deductions; **Able to** systematize **Able to** imagine objects in space	Resoluteness; Initiation; **Able to** compose in a clear way	Precision; **Able to** work independently; **Able to** make decisions; Sense of responsability; **Able to** imagine objects in space

	equipment, mesuring and checking instruments necessary for production; **Able to** prescribe the appropriate heat treatment technology; **Able to** make calculations according to the type of technology; **Able to** define technologic data; **Able to** select heating and lubricating materials; **Able to** define orders for non standard equipment; **Able to** define the most economic production process;			
Planning	**Able to** prepare the technological process of production	**Able to** use the machine design draft and symbolic representation of the technological process; **Able to use** CAD, CAD-CAM softwares, office softwares; **Able to write** CNC programs; **Able to** recognize the essence; Creativity and inventiveness	**Initiation;** **Able to** compose in a clear way	Precision **Able to** work independently **Able to** make decisions Sense of responsability; **Able to** imagine objects in space
Performance	**Able to** provide for the materials, machines, tools, equipment, measure instruments and energy supply necessary for the continuity of production; **Able to** manage production activity; **Able to** manage mounting activity	**Able to** interpret tasks in a practical way; **Able to** make a global view of tasks and situations; **Able to** recognize the essence; Creativity and inventiveness	Resoluteness; Initiation; **Able to** make contacts; **Ablo to** be flexible in communication; **Able to** compose in a clear way; **Able to** be flexible in interpersonal relations; **Able to** give feedbacks; **Able to** maintain relations; Politeness	Precision **Able to** work independently **Able to** make decisions Sense of responsability
Checking	**Able to** check the observation of technological procedure; **Able to** check technical parameters of materials, machines, measure	**Able to** make a global view of tasks and situations; **Able to** recognize the essence; **Able to** make deductions;	Resoluteness; **Able to** give feedbacks; **Able to** compose in a clear way;	Precision **Able to** work independently **Able to** make decisions Sense of responsability

	instruments used in production;			
Documentation	**Able to** prepare the technological documentation of production (operation plan, operation schedule, operation control plan, operation instruction with figures; instructions for checking); **Able to** prepare mounting documentation		Resoluteness **Able to** compose in a clear way;	Precision **Able to** work independently **Able to** make decisions Sense of responsability
Evaluating	Participation in the inspections		**Able to** compose in a clear way;	Precision **Able to** work independently **Able to** make decisions Sense of responsability

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