

met | **Didactic**

Knowledge | Technology | Process



Hydraulic Virtual Reality

Software & Hardware Set
That Enables Hydraulic Applications
To Be Made
In Virtual Reality
During Trainings



HYDRAULIC TRAINING **Software & Hardware** **In Digital Learning Environment** For Groups Of 3 & 5 Persons

It is a digital ecosystem of 3D and 2D animations, digital (video) learning environments and **Virtual Reality applications** in the field of vocational and technical education.

With this ecosystem, it is aimed to make education more effective by enriching it with digital technologies.

Thanks to this, it is aimed to enhance the qualified and technologically conscious manpower needed by the sector.

CAPABILITIES OF THE SOFTWARE **(FUNCTIONS)**

- ↘ Simulating the educational variables that exist in the real world in the same way,
- ↘ Training desk,
- ↘ Circuit elements (16 pieces),
- ↘ Manometer,
- ↘ Power unit (electric motor, hydraulic pump, suction strainer, filling and ventilation cover, level indicator, hydraulic tank, safety valve etc.)
- ↘ Connecting pipes,
- ↘ Simulating real-world behavior of all the above elements
- ↘ **10 basic and intermediate level hydraulic applications,**
- ↘ Embedded videos, explanations and symbols of circuit elements explaining how the circuit elements work in the application,
- ↘ **Warning given and error displayed when an incorrect connection or operation is made,**
- ↘ Noise within applications (hose connections, electric motor noise, etc.)
- ↘ **Pressure values shown in hydraulic applications, making of speed and pressure settings.**

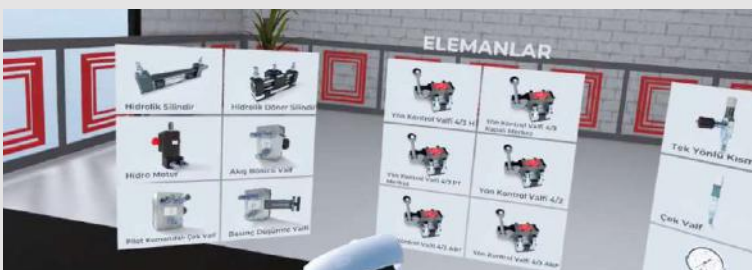
Software And Hardware For Digital Learning Environments

ADVANTAGES

- Number of user options for 1-5-10-20 users
- A software that is open to development,
- Unique in its subject and patent application,
- Ensuring simultaneous participation in digital transformation with the world,
- Decreased educational equipment and equipment dependency,
- Reduced hardware and equipment cost,
- Increasing quality of measurement tools,
- Automatic reporting of exam and practice result,

IN-APP EXAM MODE

- Keeping usage records of students who practice,
- Reporting the time spent by the students in each course content separately and keeping a record of the total time,
- Automatic evaluation according to success,
- Reporting incorrect and correct number of questions and star award,
- Algorithm that evaluates students,



VIRTUAL REALITY HEADSETS

- The world's leading Oculus brand products,
- PC connection-free, high resolution (2 touch controllers per eye to perform the functions of the hands)
- 120 Hz screen refresh rate (a feature that improves picture fluency and reduces eye strain)
- Up to 128GB memory,
- 3D integrated sound equipment,

KIOSK (SCREEN)

- The purpose of the kiosk is to enable the teacher and other viewers to instantly follow the image that the student practicing during the use of the virtual reality application, and to have a receptacle where the glasses will be placed.
- Display with 1920x1080 pixel resolution,
- Supply of products in a size suitable for the request and need of the institution,
- Instant reflecting of the content of the virtual reality application,
- Metal or wooden chassis option,
- Optional color and logo design.



With its didactic experience and the vision of "on-the-job training" MET I Didactic creates content develops tools and manages the process by using technology for the trainings it offers specific to the sector and the company



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OCCUPATIONAL AND TECHNICAL TRAININGS

Machinery-Mechanical Trainings

- Basic Hydraulics
- Advanced Hydraulics
- Hydraulic Maintenance and Troubleshooting
- Project Based Hydraulics
- Construction Machinery Hydraulics (Mobile Hydraulics)
- Basic Pneumatics, Electropneumatics
- Advanced Pneumatics and Electropneumatics
- Pneumatic Maintenance and Troubleshooting
- Project Based Pneumatics
- Remote Monitoring and Predictive Maintenance Methods According to Industry 4.0
- Machinery Mechanical Maintenance and Repair
- Bearing Selection, Assembly and Disassembly Applications
- Measurement and Control Information
- Cooling Systems and Coolers

Machinery-Mechanical Trainings

- Basic PLC
- Advanced PLC and Operator Panel
- Basic S7-300 & S7-400 PLC
- Advanced S7-300 & S7-400 PLC
- Servo, Stepper Motors and Drivers
- Industrial Sensors and Sensor Techniques
- Electrical-Electronic Maintenance and Troubleshooting

OCCUPATIONAL AND TECHNICAL SEMINARS

- Industrial Electronics
- Energy Efficiency in Industrial Systems
- Energy Efficiency in Industrial Systems
- Compressed Air Saving in Pneumatic Systems
- Motion Transmission Systems
- Pulley, Clutch, Gears etc.)
- Proportional and Servo Valves
- Making Hydraulic Fittings and Hose Measurements
- Steam Systems
- Vacuum Applications
- Industrial Lubricants and Lubrication
- Cartridge (Logic) Valves
- Selection and Installation of Sealing Elements
- Hydraulic Oils
- Reading and Interpreting Hydraulic Circuit Diagrams
- Hydraulic Circuit Design and Project Creation Techniques
- Reading and Interpreting Pneumatic Circuit Diagrams

Welding Trainings

- Electric Arc Welding
- Oxygen Welding
- Gas Metal Arc Welding

