

## HYDRAULIC DRIVES AND CONTROLS ELEMENTARY TRAINING

- TIME:** 2 days (50% of training programme – theory, 50% – practice, training performed with use of real-life hydraulic elements and test stands)
- PLACE:** PONAR Wadowice
- INTENDED FOR:** design engineers, designers, maintenance departments employees, service employees and other people who want to learn more or extend their knowledge of this field of study.
- SCOPE:**
- Hydraulic controls**
1. Introduction
  2. Elements controlling flow
  3. Elements controlling pressure
  4. Elements controlling flow rate
  5. Auxiliary equipment
    - 5.1. Filters
    - 5.2. Measuring equipment
    - 5.3. Hydraulic accumulators
  6. Connection diagrams
- Hydraulic drives**
1. Cylinders
  2. Displacement pump
  3. Displacement motors
  4. Adjusters and controllers for pumps and motors
    - 4.1. Hydraulic, mechanical and electrical adjusters
    - 4.2. Pressure controllers
    - 4.3. Pressure and displacement controllers
    - 4.4. Constant power controllers
    - 4.5. Two-state adjusters
    - 4.6. Proportional adjusters
    - 4.7. Road travel adjuster
  5. Planetary gears with hydraulic motors