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COMAU Academy

Educational
offer



Comau Academy

Comau Academy for Education ●●●



Preparing young people for the future, bringing them closer to technology

Comau Academy for Professionals ●●●



Empowering professionals with advanced skills to drive digital transformation and technological innovation

Comau Academy: Driving Innovation in Education and Training

Comau Academy provides technical and managerial expertise to train diverse audiences through innovative educational initiatives, using advanced learning technologies. Its approach enhances creativity, accelerates skill development and supports digital transformation.

Key Highlights:

- **Real-World Learning:** offers practical experiences in robotics, STEM and future professional roles, tailored to workplace needs.
- **Training Expertise:** combines knowledge in robotics and Instructional Design with innovative methodologies.
- **Inspiring Tools:** engages learners through revolutionary tools like the e.DO robot and training stations.
- **Global Impact:** operates within a global ecosystem focused on technological innovation, digital transformation and Industry 4.0.
- **Digital Transformation Leadership:** promotes skill development for future workforce challenges.

since 2018 | Comau Academy has trained over 30,000 individuals globally, collaborating with Schools, Business Schools, Universities, Research Centers and companies to deliver advanced up-skilling and re-skilling programs. It is thus creating a robust educational ecosystem to prepare learners for tomorrow's challenges.

Comau Academy's Educational Solutions

e.Do
CUBE STARTER KIT

e.Do
ROBOT STARTER KIT

e.Do
Learning LAB

e.Do
Learning CENTER



STEM



Subjects:

- Science
- Technology
- Engineering
- Mathematics

Targets:

- Primary Education
- Secondary Education
- Higher Education

Focuses:

- Robotics
- Curricular subjects
- Soft skills
- Working culture
- Orienteering



Programming Training Station

AI Vision Starter Package

Robotic Welding Station

Maintenance Training Station

Robotic Training Cells



TECH



Subjects:

- Industrial robotics
- Programming
- Python
- Robotic welding
- AI

Targets:

- Vocational Schools
- Secondary Education
- Higher Education
- Adult Education
- Universities
- Training Agencies

Focuses:

- Working future
- Key Scientific and Technological Issues
- Industry 4.0

Educational Offering | STEM



e.Do ROBOT STARTER KIT

Is the first step for equipping your institution with an innovative environment to explore STEM and Robotics. The solution includes a physical e.DO robot and educational materials designed to deliver 10h of lessons.



Dedicated **4h** of **Train the trainer**.
10h of lessons on **Math, Coding and Robotics**.



e.Do CUBE STARTER KIT

Is a compact solution designed to transform your computer lab into an innovative virtual environment for exploring STEM and Robotics through educational activities. This kit provides the tools to teach STEM subjects and immerse students in real-world metaphors using.



Dedicated **4h** of **Train the trainer**.
10h of lessons on **Math, Coding and Robotics**.



e.Do Learning LAB

Is a Phygital lab environment featuring the e.DO robot and e.DO CUBE, designed to deepen and teach **STEM, Robotics and Coding**, as well as **Working Culture** and **Soft Skills**, through Comau's educational methodology.



Dedicated **8h** of **Train the trainer**.
62h of lessons on **Math, Coding and Robotics**.



e.Do Learning CENTER

Is an innovative education environment where Primary and Secondary school students use robots to enhance their skill about STEM subjects and explore Robotics/Coding/Technology, as well as Working Culture and Soft Skills, through Comau's educational methodology.



Dedicated **40h** of **Train the trainer**.
120h of lessons on **Math, Technology, Coding and Robotics**.

Educational Offering | TECH



The Programmer 5.0

Access to **professional training modules** developed by Comau, enabling the delivery of **160h** of **hands-on lab activities**:

- **Use and Programming (40h);**
- **Python (40h);**
- **Fieldbus (40h);**
- **PLC logic (40h).**



The Programming Station

With the e.DO robot and professional control hardware serves as an excellent tool for introducing robotics and acquire programming languages for industrial robotics, as well as the control logic of electronic components in modern automation systems (PLC, HMI, Motion Control, etc.).

The AI Vision Starter Package

With an e.DO robot equipped with a computer vision system, facilitates learning in machine learning applications such as object recognition, predictive maintenance, quality control and defect detection. Perfect for hands-on training, it seamlessly connects theoretical concepts with practical AI solutions.



AI Hands-on Program

The offering includes a **Skill Training package**, featuring practical exercises that provide hands-on experience. As part of this comprehensive program, participants will train a neural network for object recognition from scratch.



The Robotic Welding Station

Featuring the e.DO robot and Soldamatic, an Augmented Reality Arc Welding Simulator, provides an immersive and iper effective work experience without the use of consumable welding materials. It ensures safety conditions by eliminating fumes, welding splatter, and heat, while significantly reducing costs and resource consumption. Thanks to the Comau and Seabery solution, we can provide the most realistic, comprehensive, flexible and programmable robotics welding training solution.



Next Generation Welding Training

Access to **professional training modules** developed by Comau, enabling the delivery of **160h** of **hands-on lab activities**:

- **Use and Programming (40h);**
- **Fieldbus (40h);**
- **Welding Theory (2h);**
- **Robotics Welding (60h).**



Educational Offering | TECH



The Maintenance Training Station

is the perfect solution, with e.DO robot and dedicated hardware simulators designed for educational purposes, to acquire **mechanical and electronic skills**, integrating network and Information Technology elements.

In total safety the students will also enhance problem-solving abilities, the fundamentals of programming industrial robots and the basics of mechatronics.

Maintenance and Problem Solving

Access to **professional training modules** developed by Comau, enabling the delivery of **160h of hands-on lab activities**:

- **Use and Programming (40h);**
- **Problem Solving and Trouble Shooting (40h);**
- **Mechanical Maintenance (40h);**
- **Electrical Maintenance (40h).**

The Comau Academy Training Cells

are designed to develop and consolidate all professional skills required for the programming and maintenance of industrial robots. The station features an industrial robot, such as **Comau's Racer-3-0.63**, or **Racer-5-0.80 COBOT**, integrated into a wheeled cell (to simplify management), fully equipped to meet all training needs while ensuring complete safety.

This equips learners with the tools and skills needed to manage and improve the efficiency of machines and systems in a **Digital Transformation** context, significantly contributing to value creation for processes and businesses.

Industrial Robotics Program

Advanced Train the Trainer has been designed by COMAU to train and support the teachers who will conduct a laboratories equipped with our Robotic cells.

240h of training and hands-on lab experiences, participants will learn how to program individual robots or automated systems, oversee control activities, and adjust processes.


Didactic Support



e.DO ROBOT

The **e.DO ROBOT** consists of a **multipurpose, easy to use** small-size **robotic arm**, designed and developed by Comau.

e.DO is equipped with **6 powered axes** and a **gripper** and a maximum payload of 1 kg. It can perform all kinds of tasks, from simple movements in space to pick & place operations like lifting, moving, manipulating and rotating parts right up to complex automated procedures.



e.DO Cube

The **e.DO Cube** is the **"Digital Twin"** of **e.DO** and allows students and teachers to follow virtually the same learning paths that can be completed using the physical robot.

Once connected to a PC or tablet via the USB port, it displays on screen a virtual robot in Cartesian space. This virtual robot can be instructed to move, pick or place objects and perform the same tasks as the real e.DO robot.



Training Packages

Immersive 4h workshops for learning and exploring mathematics, robotics and coding with the e.DO robot.



didApps

2h of laboratory to learn Mathematics, Robotics and Coding with e.DO, in a simpler and more effective way developed by Comau Academy to guide teachers and students in every phase of the learning path with e.DO robot and e.DO Cube.



Activity Cards

1h of teaching e.DO Activity Cards provide didactic material to assist students and teachers during educational experiences conducted with the e.DO robot and e.DO Cube.



Comau Web Academy

Comau Web Academy offers personalized training solutions for companies, schools and individual professionals. Delivered through an interactive and easy-to-use LMS learning platform, Web Academy training combines theoretical content with multimedia tools and practical learning activities as part of an innovative hands-on learning experience.



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