

Digital Skills for Industry 4.0

Introduction

Technicians from the industrial field will find new scenarios and processes with the arrival of Industry 4.0. In order to face and overcome the challenges they will need to develop new competences and skills in line with the technological innovations.

Challenges to be faced by the industrials:

- Higher level of automation and interconnectivity in the manufacturing process
- New tools, technologies and machines to be used in the manufacturing process
- Acquisition of new skills: ICT skills and e-leadership
- Data-based manufacturing, customer-oriented

The Skills You Need to work in 4.0 Industries

Digital Skills

- Advanced Knowledge about Information Technology. Ability to use smart devices and computers.
- Understanding IT security and Data protection
- Extensive knowledge about production process.
- Advanced software Knowledge in different disciplines such as CAD, CNC, etc
- Ability to work with data.

Management and personal skills

- Ability to organize and take decisions about complex production processes
- Communication capacity

Competences for a 4.0 Technicians

- Know the leading tools of the moment to design and manufacture.
- Know how to use CAD software to design industrial models.
- Know how to use different CNC languages to manufacture

Suggested Training path

Those technicians of industrial SMEs interested in developing skills to follow up the transformation processes in their companies can follow our training courses, designed to introduce the readers to the main concepts of 4.0 as well as familiarize them with related processes and technologies.

In the learning area section you will find all the courses, but the RESTART project team has made the following selection aimed at meeting the needs of technicians, previously detected in the analysis phase.

- Introduction to Industry 4.0
- CAD
- RE & 3D Printing
- CNC
- Definition of Cloud Computing: Key concepts
- Digital Factory Tools
- E-commerce solutions for SMEs
- Industrial Security