

Digital Skills for Industry 4.0

Introduction

With the advent of Industry 4.0, middle-managers from the industrial area have to face new scenarios and challenges. In order to keep up they need to develop new competences in line with the technological changes and 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 Build 4.0 Industries

Digital Skills

- Advanced Knowledge about Information Technology. Ability to use smart devices and computers.
- Understanding IT security and Data protection
- Basic knowledge about production process
- Basic knowledge of CNC languages.
- Ability to work with data.

Management and personal skills

- Ability to organize and communicate within the organization
- Capacity to take decisions related to middle management
- Communication skills with customers

Competences for a 4.0 Middle manager

- Know the leading tools of the moment to design and manufacture.
- Know how to use basically different CNC languages to manufacture
- Apply 4.0 to the entire value chain

Suggested Training path

The middle managers of industrial SMEs interested in developing digital transformation processes in their businesses 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 middle managers, previously detected in the analysis phase.

- Introduction to Industry 4.0
- CNC
- Definition of Cloud Computing: Key concepts
- Cloud Models
- Advantages of cloud computing for SMEs
- Digital Factory Tools
- Implementing the Smart Factory
- Introduction to e-commerce
- e-leadership
- Big Data
- Industrial Security