Training on Digital Skills

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Our purpose

We work on digitalisation & technology needs in all the levels of the education and the training sector offering workshops, networking and studies to make companies more competitive with a digital & talented humanforce.

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- Equipment & infrastructure companies
- Management platforms
- Educational software providers
- EdTech Contents & resources
- Research
- Education, Professional & CorporateTraining institutions

Our members' expertise

Going digital means skilling for Digital (CEDEFOP, 2023)

Digital technology is a cornerstone of business transformation

...**digital tools** help organisations simplify and **streamline their operations**, become **greener and reduce waste**, and better manage their staff...

...**digital strategies and investment** are **catalysts** for business empowerment and **transformation** in today's technology-driven economy...

...**digitally just transformation** will **not be possible** without a **digitally ready workforce**...

One in every two adults in the EU has only basic digital skills

...the EU launched the first large-scale initiative to **tackle the lack of digital skills** already in 2013 with the **Grand Coalition for Digital Jobs**...

...**EU initiatives** in place today **put people centre stage in digital transformation** and are supported by **billions of funding**...

...planned **investment in digitalisation and digital skills** is expected to contribute to **higher demand for IT roles** in the EU economy...

Lack of staff with solid digital skills blocks investment

...**with 70%** of EU companies reporting **lack of adequate digital skills** as an obstacle to investment, **Europe faces** a considerable **skills gap**...

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Artificial intelligence has become a productivity and competitiveness drive

Figure 2. **Enterprises using at least one AI technology (%) by sector and in the manufacturing sectors**

25.5% Information & communication

17.6% Professional, scientific & technical activities

9% Electricity, gas, steam & air conditioning supply; water supply; sewerage, waste management & remediation activities

7.3% Administrative & support service activities
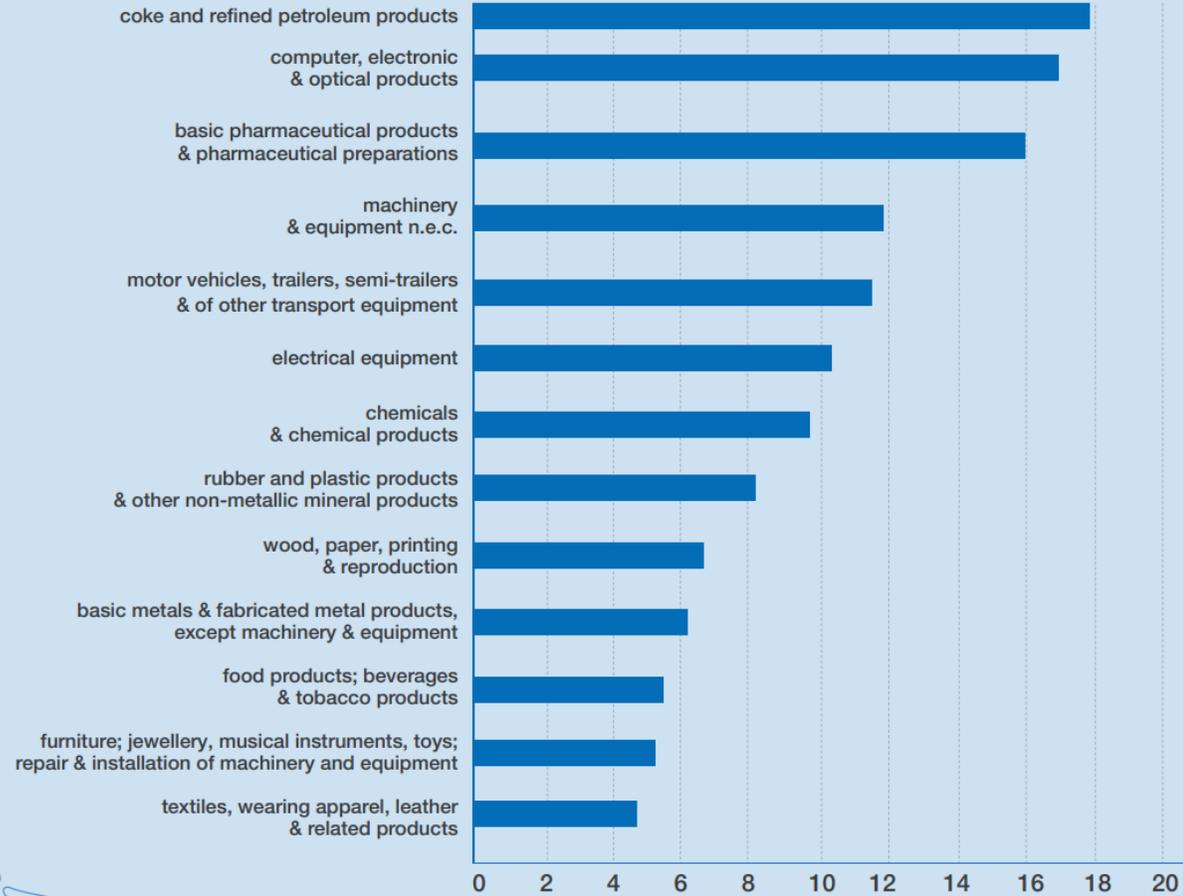
7.3% Manufacturing

6.4% Wholesale & retail trade; repair of motor vehicles & motorcycles

5.3% Transportation & storage

4.8% Construction

3.6% Accommodation & food service activities

Manufacturing

Sector	Value
coke and refined petroleum products	~17.5
computer, electronic & optical products	~17
basic pharmaceutical products & pharmaceutical preparations	~16
machinery & equipment n.e.c.	~12
motor vehicles, trailers, semi-trailers & of other transport equipment	~11.5
electrical equipment	~10
chemicals & chemical products	~9.5
rubber and plastic products & other non-metallic mineral products	~8
wood, paper, printing & reproduction	~6.5
basic metals & fabricated metal products, except machinery & equipment	~6
food products; beverages & tobacco products	~5.5
furniture; jewellery, musical instruments, toys; repair & installation of machinery and equipment	~5
textiles, wearing apparel, leather & related products	~4.5

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What's going on in Spain to foster digital skills?

→ It's a National & Regional priority

→ Regulation & policies already in place

→ Funds to implement training digital skills

→ Experts on digital transformation and training

→ Next Generation projects on Digital Skills

Continuous learning in emerging technologies can enhance the capability in the dynamic field of the chemical industry

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Trends in digital Skills & some specific for the chemical industry

1. **Data Analytics**
   Analyzing large sets of data to derive insights and optimize processes.

2. **Programming and Automation**
   -Proficiency in programming languages like Python for automation and scripting.

3. **Process Simulation**
   Knowledge of simulation software (e.g., Aspen Plus, CHEMCAD) for process optimization.

4. **SCADA Systems**
   Understanding and working with Supervisory Control and Data Acquisition (SCADA) systems for real-time monitoring

5. **IoT and Sensors**
   Familiarity with Internet of Things (IoT) devices and sensors for data collection and monitoring.

6. **Digital Twin Technology**
   Understanding and implementing digital twin technology for virtual representation of physical processes.

7. **Cybersecurity**
   Knowledge of cybersecurity protocols and practices to protect sensitive data and control systems.

8. **Cheminformatics**
   Utilizing computational methods and tools for managing and analyzing chemical data.

9. **3D Printing and Additive Manufacturing**
   Embracing emerging technologies like 3D printing for prototyping and manufacturing processes.

10. **Collaboration Tools**
    Proficiency in using digital collaboration tools for remote teamwork and project management.

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Q & A ...
Thank you for you time!

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