



Innovation Initiatives in VET

Wood and furniture

Round table: Innovation in the wood and furniture industry

CHALLENGING THE FUTURE - MANAGING INNOVATION in Wood and Furniture sector

EQWOOD Final Conference

25th March 2021



**GENERALITAT
VALENCIANA**

LABORA
Servei Valencià d'Ocupació i Formació



CRN Paterna
Transformación e instalación
de madera y corcho

Celia Ruiz Flores

National Reference Centre

Transformation and Installation of Wood and Cork. SPAIN.

INNOVATION for VET wood & furniture teachers

3D
printing



Adaptation

Rapid changes
Social, economical, political, sanitary

Big Data



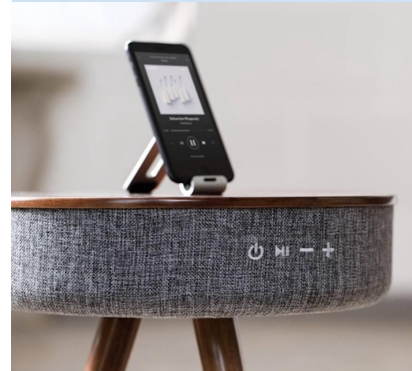
Online - blended - face to face courses

Digitization

Digital transformation
of wood-furniture industry

Connectivity

Smart furniture IoT



CNC
Robotization
Industry 4.0



INNOVATION for VET wood and furniture students

eLearning

MAMB0110 PROYECTOS DE INSTALACIÓN Y AMUEBLAMIENTO
MF1369_3: DESARROLLO DE PROYECTOS DE INSTALACIÓN Y AMUEBLAMIENTO

UFI368 Toma de datos y representación gráfica del entorno para el proyecto de instalación y amueblamiento

1.1. Tipos de proyectos de instalación de carpintería y amueblamiento

< Anterior 6/8 Siguiendo >

Los espacios de trabajo que con mayor frecuencia se pueden encontrar en la instalación de carpintería y amueblamiento son:

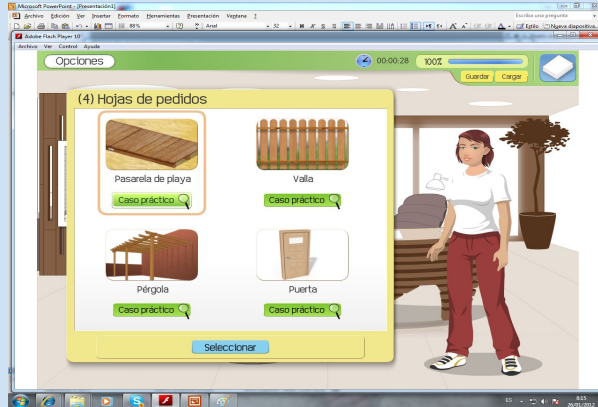
- + Cocinas
- + Baños
- + Salones/comedores
- + Dormitorios
- + Espacios de transición
- + Opciones
- + Espacios especiales



para la clasificación de las instalaciones de mobiliario.

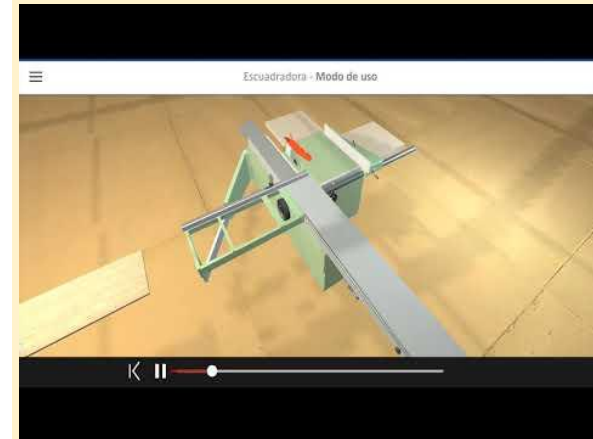
Wood & furniture didactic resources

Simulator Installing carpentry elements



Interactive Catalogue

3D Wood Machinery



click video

To be prepared for a global, digital and changing world of work

LIFELONG LEARNING

Upskilling - reskilling
during all labour life



DIGITAL COMPETENCES

Technologies and processes associated with digital transformation and connectivity



SOFT SKILLS

Adaptability, creativity, critical thinking, problem solving, teamworking,

Taking short courses or working with PBL methodologies.



Trends for furniture companies and VET students should be prepared for

#NewBauHaus

#Wood

#ODS

Climate Change

#circulareconomy

#DIY

#EUGreenDeal

New society trends

79% UE citizens consider acting against climate change is key in innovation

Green Deal promoting the efficient use of resources

Circular economy uses, as little energy as possible, and everything is reused

Stay at Home



Adaptation to new needs
Home working
eco-design



Circular economy is beginning to be taught in schools and training centres.

How?

- **Reflecting on climate change** and how to take care of the planet with real and close examples. The SDG's for 2030.
- **Being aware of natural resources**, explaining the furniture industry doesn't contribute to deforestation even talking about certified woods.
- **Defining how to reduce the environmental impact**, before undertaking a practice.
- **Developing attitudes in the training practices:**
 - The 5 R's: reduce, recover, recycle, reuse, refurbish.
- **Eco design:**
 - Design and mechanize with recycled materials and more than 1 use.
 - Use of materials from nature (wood, cork, natural fibers, branches, ...
 - Comfortable, bright and adaptable homes and furniture.

1. How a National Reference Centre in Vocational Training contribute to innovation of wood and furniture industry

Events and dissemination

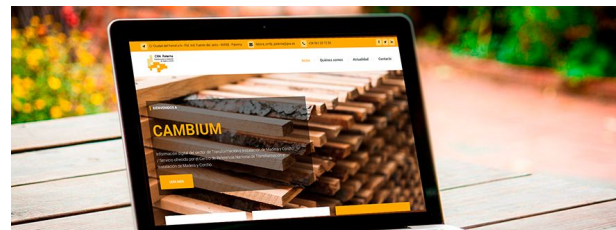
Technical Conferences on innovation wood and furnitures sector

Innovation work breakfasts:
"Microcluster. Wood and Furniture"

Specialized website **CAMBIUM.gva.es**

Adressers

- Educational ecosystem: VET teachers, students, training centres.
- Labor ecosystem: companies, federations, unions
- Labor and educational public admin.



2. How a National Reference Centre in Vocational Training contribute to innovation of wood and furniture industry

Design courses and digital resources

eLearning official courses

Innovative didactic resources

Adressers

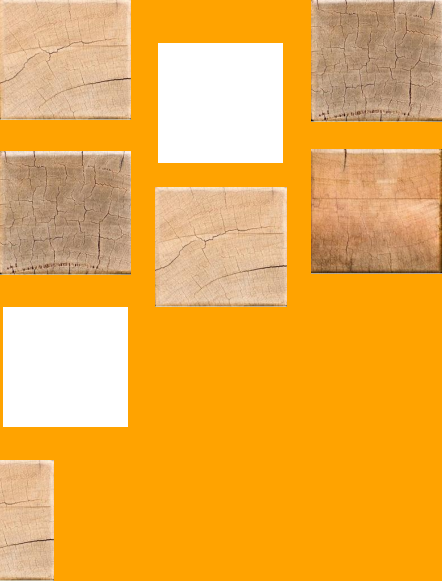
Educational ecosystem:
VET teachers, students,
training centres.



3. How a National Reference Centre in Vocational Training contribute to innovation of wood and furniture industry

Collaboration with the productive sector

- Updating of VET certificates of professionalism, guides for monitoring and evaluation
- Participation in Official procedures to certify qualifications for professional experience
- Collaboration in european projects Erasmus+ EQWOOD, SMARTRAIN, etc.
- Detecting vocational training needs in the industry
- Giving visibility and promote the wood and furniture sector
- Motivating students to study and work in wood and furniture sector



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