



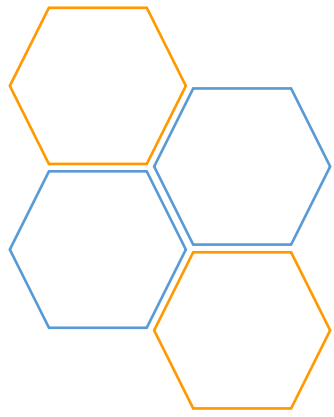
Digitalization effect on VET

Practices
Challenges
Opportunities

SuSodCo 3th Virtual Capacity Building Event

Seminar 28.06.2021

Digital skills

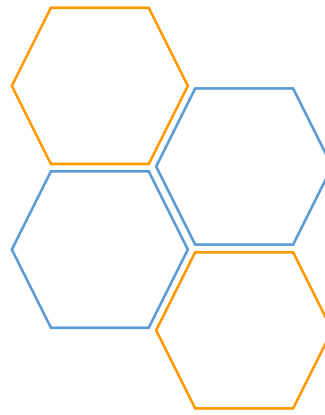


According to CEDEFOP, the set of digital skills include:

- **information processing** (e.g. using a search engine and storing information and data);
- **communication** (including teleconferencing and application sharing);
- **content creation** (such as producing text and tables, and multimedia content);
- **security** (e.g. using a password and encrypting files); and,
- **problem solving** (e.g. finding IT assistance and using software tools to solve problems)

Skills Panorama (CEDEFOP)

Skills in the sector of Construction



According to Eurofound's Job Monitor, routine, gathering and evaluating information, and autonomy are the most important tasks and skills of care construction workers.

Figure 1: Importance of tasks and skills of construction workers

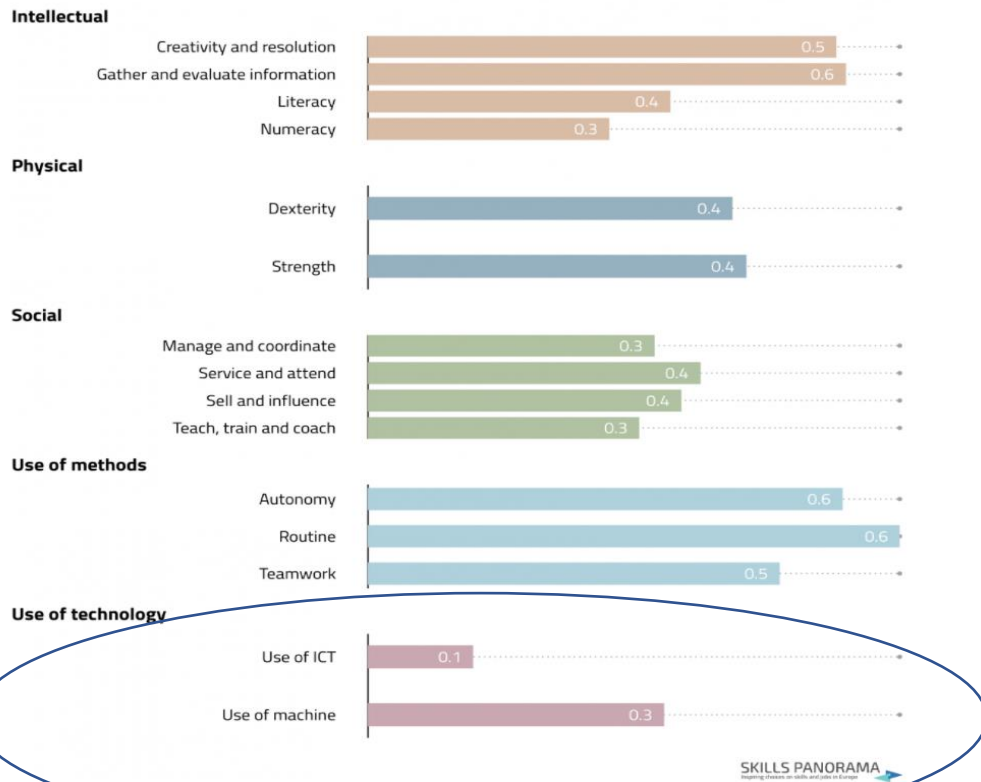
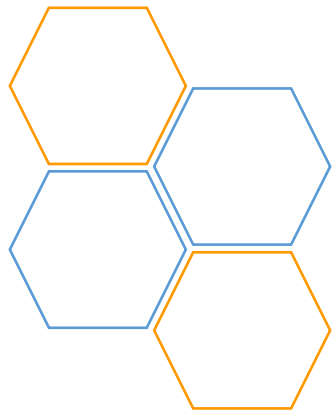


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<https://skillspanorama.cedefop.europa.eu/>

Digitalization and Policy Framework in Bulgaria



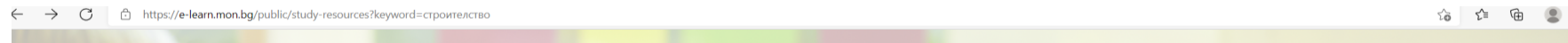
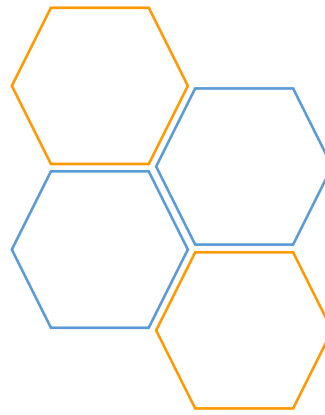
- A National Programme ‘Digital Bulgaria 2025’ - approved with a Council of Ministers Decision on 5.12.2019
- National Programmes for Building a STEM school environment
- National Programme for innovative schools

Lessons learned:

Situation of emergency with COVID-19 reinforced the efforts for digitalization of learning content and provision of training in e-environment

Digital Repository

Learning content for free use (by subjects and VET fields)



Examples from VET Field Construction

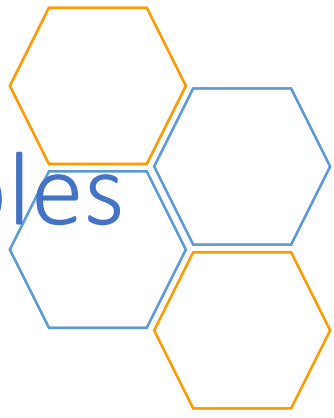
Материали

Търсене > Ключова дума: строителство

<p>ПРОФЕСИОНАЛНА ПОДОГОТВКА</p> <p>Професионална подготовка</p> <p>Иновативни сгради</p> <p>VIII клас За обучение</p> <p>Презентации</p> <p>32</p>	<p>ИСТОРИЯ И ЦИВИЛИЗАЦИЯ</p> <p>Обществени науки</p> <p>Работни листове "Разходка в средновековния град (урок за упражнение) "</p> <p>VI клас За изпитване</p> <p>Упражнения</p> <p>189</p>	<p>ПРОФЕСИОНАЛНА ПОДОГОТВКА</p> <p>Професионална подготовка</p> <p>учебно помагало „Екологично и енергоефективно строителство“ част 3</p> <p>XI клас За обучение</p> <p>Интерактивни ур...</p> <p>157</p>	<p>ПРОФЕСИОНАЛНА ПОДОГОТВКА</p> <p>Професионална подготовка</p> <p>учебно помагало „Екологично и енергоефективно строителство“ част 2</p> <p>XI клас За обучение</p> <p>Интерактивни ур...</p> <p>193</p>	<p>ПРОФЕСИОНАЛНА ПОДОГОТВКА</p> <p>Професионална подготовка</p> <p>Основни знания за звукоизолация в строителството</p> <p>IX клас За обучение</p> <p>Интегрирани уро...</p> <p>21</p>	<p>ПРОФЕСИОНАЛНА ПОДОГОТВКА</p> <p>Професионална подготовка</p> <p>Помощник в строителството</p> <p>X клас За обучение</p> <p>Интегрирани уро...</p> <p>30</p>
<p>ПРОФЕСИОНАЛНА ПОДОГОТВКА</p> <p>Професионална подготовка</p> <p>Сухо строителство</p>	<p>ПРОФЕСИОНАЛНА ПОДОГОТВКА</p> <p>Професионална подготовка</p> <p>тест облицовки и настилки</p>	<p>ПРОФЕСИОНАЛНА ПОДОГОТВКА</p> <p>Професионална подготовка</p> <p>Стомана</p>	<p>ПРОФЕСИОНАЛНА ПОДОГОТВКА</p> <p>Професионална подготовка</p> <p>Строителни материали-дървесина дървесина</p>	<p>ПРОФЕСИОНАЛНА ПОДОГОТВКА</p> <p>Професионална подготовка</p> <p>Сухо строителство. Окачен таван на едно ниво</p>	<p>ПРОФЕСИОНАЛНА ПОДОГОТВКА</p> <p>Професионална подготовка</p> <p>учебно помагало „Екологично и енергоефективно строителство“ част 4</p>

<https://e-learn.mon.bg/>

Programmes, Projects, Initiatives – some examples



- Education for Tomorrow (ESF Project):

VET school for wood processing and construction in Haskovo (pgds.org)

Digital competences improvement by learning modules “Digital Marketing” and „Junior Web Development”

- Equal access in school education in the situation of crisis (ESF Project):

VET school for Construction and Installations in Burgas (pgsi.bg)

Technical equipment for participation in e-learning, training of students for improvement of e-learning skills

- National Programme “Innovative Schools”:

VET school for Architecture and Construction in Pazardzhik (pgsa-paz.com)

Project based learning through Google G suite platform

Programmes and Projects – some examples from Bulgaria



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Stories of success – Transnational cooperation



EU project "**Transforming VET in Construction – Innovative Materials for Building and Energy Efficiency**" (BEE-VET), Erasmus + programme

The Project – introduced by VET school for architecture and construction in Sofia (sgcag.info) and nominated in [European VET Skills Awards 2020](#)

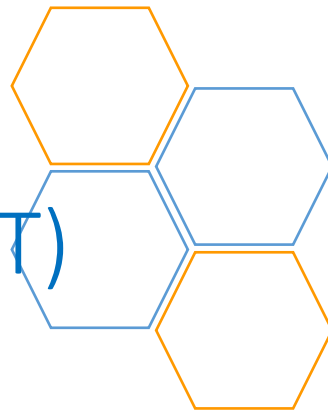
BEE VET Digital Toolkit: designed for students in upper secondary VET in the field of construction for:

- practical application of innovative materials and technologies (green, sustainable and energy efficient construction materials and resources)
- digital skills improvement;
- increase of motivation to learn

12 Topics with:

- synthesized theoretical information;
- interactive practical exercises;
- library with links to demos and video guides;
- exercises for self-assessment

"Transforming VET in Construction – Innovative Materials for Building and Energy Efficiency" (BEE-VET)



https://beevet.eu/4877-2/



ABOUT BEE-VET PROJECT BEE-VET OUTPUTS PARTNERS NEWS CONTACT ENGLISH

Back to all topics

12.03.2021 Editor

Topic 4. Extreme covers

What determines the design of the facade?

Practical exercises

- Practical exercise No 1. Division of facades in terms of materials.
- Practical exercise No 2. Work with the assignment from the subject Construction exercises.
- Practical exercise No 3. Assessment of advantages and disadvantages of the designed facade in the given building.
- Practical exercise No 4. Design of an extreme facade and justification of its design for the building.
- Practical exercise No 5. Types of plasters according to the border.

Quiz

Quiz

Specialized designed for VET schools in construction and architecture sector, BEE VET Digital toolkit helps students to:

- Increase their knowledge on current topics in the field of construction, as well as for the practical application of innovative materials and technologies (green, sustainable and energy efficient construction materials and resources);
- Improve their digital skills;
- Increase their motivation to learn.

Currently the platform is available in 4 languages – English, Bulgarian, Slovak and Turkish. A German version will be available in the coming weeks.

The platform is open access free and no registration is required. All you have to do is to visit <https://beevet.eu/all-courses/> and choose the language version which is suitable for you and your students.

The developed topics are listed on the homepage. Each of them contains structured theoretical information, interactive exercises, self-assessment test and additional information (videos, glossary of terms, and links to useful sources and literature).

The structure and free access of the platform, especially in a pandemic situation, makes BEE VET Digital Toolkit extremely suitable to support students in online learning.

Each teacher can decide how to use all available resources during the lesson. Theoretical information can be downloaded in pdf files. Individual exercises can be downloaded, printed and given for individual or group work or

HOW TO USE BEE VET DIGITAL TOOLKIT?

Each Topic from the BEE VET Digital Toolkit contains:

✓ **Theory** – systemized information to the topic. You can read it online or download it through button

✓ **Interactive exercises** – easy way to learn terms, connections and to train the theoretical information. With the button you can download **worksheet** with the current exercise

✓ **Quiz/Self-assessment Test** – From 5 to 7 single choice questions will test what you learned about the topic

✓ **Additional Information** – here you can find short **glossary** to the terms used in the topic, **video** demonstrations, useful **literature** to the topic

5 LANGUAGE GLOSSARY

EN DE SK TR BG

STUDENT QUESTIONNAIRE

CONTACT US

Your Name*

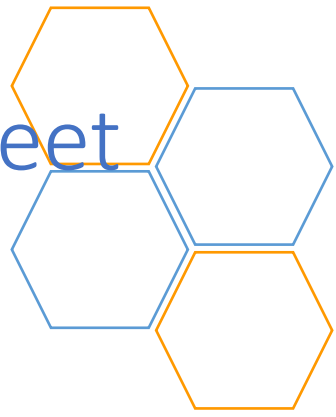
Your Email*

Subject

Your Message

<https://beevet.eu>

Digital skills in the sector of Construction – how to meet the challenges and strengthen opportunities?





Gospodarska
zbornica
Slovenije



Chamber of Commerce
and Industry of Slovenia

Chamber of Construction
and Building Materials Industry
of Slovenia



FEDERATION OF THE BUILDING
CONTRACTORS ASSOCIATIONS OF CYPRUS

Ο.Σ.Ε.Ο.Κ

European Federation
of Building
and Woodworkers



ÉVOSZ



ΠΕΔΜΕΔΕ
1939

ΠΑΝΕΛΛΗΝΙΑ ΕΝΩΣΗ ΔΙΠΛΩΜΑΤΟΥΧΩΝ
ΜΗΧΑΝΙΚΩΝ ΕΡΓΟΛΗΠΤΩΝ ΔΗΜΟΣΙΩΝ ΕΡΓΩΝ

PANHELLENIC ASSOCIATION OF ENGINEERS
CONTRACTORS OF PUBLIC WORKS



КАМАРА НА СТРОИТЕЛИТЕ В БЪЛГАРИЯ
BULGARIAN CONSTRUCTION CHAMBER

Thank you for your
attention!

Vanya Tividosheva