Online teaching material

POLICY DEVELOPMENT　　PRACTICAL MEASURE/INITIATIVE　　🇪🇸 SPAIN

Timeline

| 2019 Implementation | 2020 Implementation | 2021 Implementation |
| 2022 Implementation | 2023 Implementation | 2024 Implementation |
| 2025 Implementation |

ID number 28694

Objectives

To facilitate access to educational resources that are specifically used for distance learning or education processes.

Description

In education authority VET, the education community can find and create structured teaching material ready to be downloaded and used by teachers and learners in Procomún, the Repository of open educational resources (OER) of the ministry, operated by the National Institute for Education Technologies and Teacher Training (INTEF). Another initiative is the Educational Technology Observatory, which provides a virtual library with articles for teachers written by teachers about how to use digital innovation in non-university education. The National Centre of Curriculum Development in No Proprietary Systems (CeDeC) – dependent on the INTEF and the Government of Extremadura – has started to publish VET OERs closely related to new active methodologies. This offer is intended to match the needs of different curricula and aims at promoting social networking to aid the exchange of experiences and resources between teachers.

The EDIA (educational, digital, innovative and open) project of the CeDeC promotes and supports the creation of dynamics of digital and methodological transformation in schools to improve student learning and promote new education centre models. It offers an educational content bank, also for VET. These are open educational resources, curriculum-referenced, with approaches linked to active methodologies and the promotion of digital competence in the classroom. It also supports the creation of teacher networks to promote innovation in the classroom and bringing in educational and information technologies into teaching by teachers.

> ### 2019 Implementation
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> At the end of 2019, the *AseguraTIC* (Secure ICT) website was presented, an initiative promoted by the education ministry, related to action 7, Cybersecurity in education, included in the Digital education action plan (COM/2018/022 final). It was developed through INTEF and the Spanish Agency for Data Protection (Agencia Española de

Protección de Datos, AEPD) plus the participation and collaboration of other public and private entities. This website is aimed at families, students, educators and education authorities to gather in a single digital space a wide collection of materials, provided by the participating entities, related to the safety of minors in digital media. The website incorporates a search-selective engine to find resources easily according to the topic, type of resource, recipients, education stage, source or licence for use.

As part of the EDIA project, the following open educational resources have been published aimed at Flipped Classroom and the professional training and guidance module (*Formación y orientación laboral* - FOL), included in all IVET programmes, such as Prevention of occupational risks, Labour legislation, and searching for a job.

The General Secretariat for VET has a repository with material for 104 VET diplomas specifically designed for e-learning. In 2019 the updating of this material started, as well as the elaboration of new materials for 70 other VET diplomas.

2020 Implementation

In 2020, CEDEC published a total of 57 open educational resources as part of the EDIA project, whose objective is the methodological and digital transformation of classrooms. Through proposals based on active methodologies, curricular projects have been developed and referenced, such as the vocational training materials on Business and entrepreneurship.

A practical guide to licences for teachers has also been published, aimed mainly at teachers.

The Procomún Portal continues to offer open educational resources (OER) and articles on educational topics, catalogued in a standard format, classified by area of knowledge and educational context, and with a CC BY-SA licence, which allows users to use, distribute and modify the materials, as long as they acknowledge authorship. Users have continued to be encouraged to share their materials on this network of open educational resources, which already has more than 40 000 users, 95 000 resources and access to a multimedia bank with more than 100 000 objects.

In March 2020, a new website, Resources for online learning, was published to meet the special needs that arose due to the closure of education centres during the COVID-19 pandemic. The aim of this space is to provide teachers, families and students with information and support on different types of resources (materials, training courses, platforms, tools) available for online use.

2021 Implementation

The Procomún portal continued to offer open education resources (OER) and articles on education topics, catalogued in a standard format. About 1 000 new learning resources were published.

In 2021, CEDEC published 29 open education resources as part of the EDIA project, whose objective is the methodological and digital transformation of classrooms. Through proposals based on active methodologies, curricular projects have been developed and referenced, such as the vocational training materials on business and entrepreneurship.

The education ministry and the Autonomous Communities collaborated on a project to update curricular materials associated with IVET programmes delivered in the distance learning modality. Materials are not publicly available but are listed in the ministry database and are accessible to regional authorities, which disseminate them to their education centres.

2022 Implementation

Users have published their educational materials in the Procomún open educational resources network (OER), which already hosts more than 45,000 records. During the

year 2022, 2,393 learning resources and 135 articles were added to the repository. It also provides access to a multimedia bank with more than 100,000 objects.

All of them are catalogued in standard format, classified by area of knowledge and educational context, and licensed under CC BY-SA, which allows users to use, distribute and modify the materials, as long as they acknowledge authorship.

During this period, new educational resource projects have been created to support teachers in the online learning of various subjects:

   (a) didactic itineraries (1,215 resources);
   (b) INTEF, camera and action (153 programmes and 765 videos);
   (c) MatesGG (912 guides).

The creation of educational resources in digital format is a specific line of the plan for the digitalisation and digital competences of the education system (#DigEdu Plan) which is one of the actions included in Spain´s NIP.

In 2022, the EDIA project (Cedec) has also increased the number of open educational resources offered to teachers, to foster a methodological and digital transformation in education. Other resources such as rubrics and other assessment documents, infographics and articles have also been published.

INTEF explored how to integrate a web search engine to facilitate the location of the resources available in its projects, allowing easier and more intuitive access to the educational resources and making them more visible, expected by 2023.

2023 Implementation

The development and promotion of online teaching material in Spain responded to the increasing need for digitalisation in education. During 2023, INTEF increased the publication of diverse online education resources to support teachers with the following initiatives:

   (a) Procomún: 1 947 publications;
   (b) Camera and action: 200 programmes;
   (c) MatesGG: 200 guides;
   (d) Open Education Resources (OER): 23 projects;
   (e) Future Classroom: 97 resources and experiences;
   (f) CEDEC: 152 rubrics and 28 infographics;
   (g) Inspiring educational experiences: 38;
   (h) Educational technology observatory 20;
   (i) AseguraTIC: 102 resources.

The shift towards blended and remote learning environments also required new approaches to ensure that teachers and students engage with content effectively outside traditional classrooms. Teachers were encouraged to participate in online learning communities, where they could exchange resources, experiences, and best practices related to the use of digital content.

A new 30-hour training course on sustainability for VET teachers has been developed in collaboration with the Naturgy Foundation, a member of the Alliance for VET. It consists of 21 hours of synchronous online sessions and 9 hours of individual work. The first edition, taking place in October and November, attracted nearly 300 VET teachers and is recognised by the education ministry (INTEF).

In addition, the Naturgy Foundation developed eight online training modules that provide students with state-of-the-art technical knowledge and certification in areas such as sustainable mobility, sustainable renovation and construction, renewable gases, digitalisation of electricity networks, energy consultancy for vulnerable environments, installation and maintenance of solar panels, green and digital gas networks, and sustainability applied to the productive system.

Online sessions are followed by a presentation format, where the trainer explains the

session's contents, interacts with the participants, and answers questions. The sessions alternate between more practical cases, where participants can present their thoughts on and solutions to previously raised problems, and learning by doing with real problems.

2024 Implementation

The development and promotion of online teaching material in Spain for digitalisation in education was still ongoing. During 2024, INTEF increased the publication of diverse online education resources to support teachers with the following initiatives:

> (a) Procomún - 14 443 publications;
> (b) MatesGG - 266 guides;
> (c) Future classroom - 140 resources;
> (d) CEDEC - 267 rubrics and 8 infographics;
> (e) Inspiring educational experiences - 27;
> (f) Educational technology observatory - 13;
> (g) AseguraTIC - 17 resources.

Naturgy continued to strengthen the 'Vocational Training Programme for Employability' aimed at teachers.

The modules developed for vocational training teachers and trainings were: renewable gases, energy consulting in vulnerable environments, digitalisation of electricity grids; gas networks: green and digital; sustainability applied to the production system; wind farm maintenance; and thermal imaging cameras.

2025 Implementation

Development of online teaching material continued.

Bodies responsible

- Ministry of Education and Vocational Training (until 2023)
- Ministry of Education, Vocational Training and Sports
- National Institute of Qualifications (INCUAL)

Target group

Learners

Learners in upper secondary, including apprentices
Learners with migrant background, including refugees
Learners at risk of early leaving or/and early leavers
Learners with disabilities
Adult learners
Learners from other groups at risk of exclusion (minorities, people with fewer opportunities due to geographical location or social-economic disadvantaged position)

Education professionals

Teachers
Trainers
School leaders
Adult educators

Thematic categories

Modernising VET offer and delivery

Modernising VET standards, curricula, programmes and training courses

Diversifying modes of learning: face-to-face, digital and/or blended learning; adaptable/flexible training formats

Developing and updating learning resources and materials

Acquiring key competences

Integrating green transition and sustainability in VET curricula and programmes

Teachers, trainers and school leaders competences

Systematic approaches to and opportunities for initial and continuous professional development of school leaders, teachers and trainers

European priorities in VET

VET Recommendation

Flexibility and progression opportunities at the core of VET

VET as an attractive choice based on modern and digitalised provision of training and skills

Osnabrück Declaration

Establishing a new lifelong learning culture - relevance of continuing VET and digitalisation

Sustainability - a green link in VET

Subsystem

IVET

Further reading

INTEF. Educational Technology Observatory

Organic Act 3/2022, of 31 March, on the organisation and integration of Vocational Training

Fundacion Naturgy, Vol 3.1. and Vol 3.2. of the Professional module of Sustainability applied to the productive sector

Available courses

Strengthening the 'Vocational Training Programme for Employability' for teachers informe-anual-2024.pdf

Related policy developments

2025 **Implementation**

Digital competence framework for teachers

The Ministry of Education and Vocational Training, through the National Institute of Educational Technologies and Teacher Training and the Autonomous Communities, elaborated, in 2021, a new reference framework for digital competence in teaching through a commission dependent on the Working Group

SPAIN

Type of development

Practical
measure/Initiative

Subsystem

IVET

2025 **Implementation**

Raising employability for ICT and the digital economy

There are multiple initiatives to raise the skills of young people and workers (employed or unemployed) in ICT and the digital economy. Different public bodies are involved, in some cases in partnership with industry.

SPAIN

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Subsystem

IVET CVET

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