ESCO

**Multilingual** classification of European **Skills, Competences, Qualifications** and **Occupations**.
WHAT IS ESCO?

ESCO identifies and categorises skills, competences, qualifications and occupations relevant for labour market and education and training systematically shows the relationships between the different concepts.
ESCO mapping to EURES

The entry into force of the Implementing Decisions provided for in art. 19 (2) and (6) of the EURES Regulation marks the start of the 3 years period during which Member States have to establish an initial inventory to map their national, regional and sectoral classifications to and from the European classification. Find out the latest information and documentation.
THE THREE ESCO PILLARS

- occupations
- skills
- qualifications
2 Professionals

25 Information and communications technology professionals

- 252 Database and network professionals
  - 2521 Database designers and administrators
    - database developer
    - Database developers program, implement and coordinate changes to computer databases based on their expertise of database management systems.
<table>
<thead>
<tr>
<th>Essential skills and competences</th>
<th>Essential Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>apply information security policies</td>
<td>data extraction, transformation and loading tools</td>
</tr>
<tr>
<td>balance database resources</td>
<td>data quality assessment</td>
</tr>
<tr>
<td>collect customer feedback on applications</td>
<td>data storage</td>
</tr>
<tr>
<td>create data models</td>
<td>database development tools</td>
</tr>
<tr>
<td>estimate duration of work</td>
<td>database management systems</td>
</tr>
<tr>
<td>identify customer requirements</td>
<td>query languages</td>
</tr>
<tr>
<td>interpret technical texts</td>
<td>resource description framework query language</td>
</tr>
<tr>
<td>perform backups</td>
<td></td>
</tr>
<tr>
<td>report analysis results</td>
<td></td>
</tr>
<tr>
<td>test ICT queries</td>
<td></td>
</tr>
<tr>
<td>write database documentation</td>
<td></td>
</tr>
</tbody>
</table>

ESCO distinguishes **essential** and **optional** knowledge, skills and competences.
Searching skills, you can choose

- All skills
- Transversal skills and competences
- Digital competences
- Language

- The skills pillar contains not only skills, but knowledge, skills and competences. ESCO distinguishes between i) skill/competence concepts and ii) knowledge concepts,
Create data models

Use specific techniques and methodologies to analyse the data requirements of an organisation's business processes in order to create models for these data, such as conceptual, logical and physical models. These models have a specific structure and format.
1. Relationship with occupations, i.e. by using *occupational profiles* as entry point;

2. In the part of the *transversal knowledge, skills and competences* through a skills hierarchy;

3. Relationships of affiliated knowledge, skills and competences *skill contextualisation*

4. Through functional collections that allow to select subsets of the skills pillar.

Experts are working on better interfaces
Qualifications in ESCO come from national qualifications databases. Qualifications are included in NQF that have been referenced to the EQF.

Countries develop national qualifications databases and interconnect these with the Learning Opportunities and Qualifications in Europe portal (LOQ) and with ESCO.
ESCO FORMAT FOR QUALIFICATIONS

Core information in ESCO is based on Annex VI of EQF Recommendation:

Title: Exact title of the qualification (without translation).
Field: Based on ISCED Fields of Education and Training 2013.
Country/Region
EQF level: only after referencing
Awarding body or competent authority
Description expressed in learning outcomes
Countries wanting to publish qualifications in ESCO need to structure their data according to the qualifications metadata schema and upload it in the qualifications dataset register (QDR).

Links to the Skills Pillar are tested through the learning outcome statements.

Links to the Occupations pillar are only shown if they exist at national level.
LEARNING OPPORTUNITIES AND QUALIFICATIONS IN EUROPE PORTAL
<table>
<thead>
<tr>
<th>SQF Level 10</th>
<th>EQF Level 8</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diploma tretje stopnje (Doctorate)</td>
<td>certification de niveau 1 par formation continue - doctorates</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SQF Level 9</th>
<th>EQF Level 7</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diploma o magisteriju znanosti (Pre-Bologna research master's degree)</td>
<td>certification de niveau 1 - master (masters)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SQF Level 8</th>
<th>EQF Level 6</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diploma druge stopnje (Master's degree)</td>
<td>certification de niveau 2 - licence (bachelor)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SQF Level 7</th>
<th>EQF Level 6</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diploma prve stopnje (VS) (Professional Bachelor's degree)</td>
<td>Licence Professionnelle : Licence Professionnelle Vocational degree, Management of organisations</td>
<td></td>
</tr>
<tr>
<td>Diploma prve stopnje (UN) (Academic Bachelor's degree)</td>
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<td></td>
</tr>
</tbody>
</table>
Find information on qualifications

Qualifications that are part of national qualifications framework are listed on this page. You can search for more detailed information on qualifications, and a link to the national database. The qualifications are determined by the EQF.

Filter by Subject:
- Information and Communication Technologies (ICTs)
- Software and applications development and analysis

Filter by EQF Level:
- EQF Level 4

Filter by Location:
- Ireland

Search results

Search found 1 item

Software Development

Awarding body
Quality and Qualifications Ireland

Category: Qualifications Location: Ireland
NEW EUROPASS
The Europass documents

Europass is a collection of five documents:

Two documents freely accessible:
- The **Curriculum Vitae** helps you present your skills and qualifications effectively and clearly. Create your CV (+ cover letter) online.
- The **Language Passport** is a self-assessment tool for language skills and qualifications. Create your Language Passport online.

Three documents issued by education and training authorities:
- The **Europass Mobility** records the knowledge and skills acquired in another European country.
- The **Certificate Supplement** describes the knowledge and skills acquired by holders of vocational education and training certificates.
- The **Diploma Supplement** describes the knowledge and skills acquired by holders of higher education degrees.

**Curriculum Vitae**
- Create your CV & cover letter online
- Update your CV (Europass PDF) online
- Examples

**European Skills Passport**
- Create your European Skills Passport online
- Update your European Skills Passport (Europass PDF) online
- Language Passport
- Europass Mobility
- Diploma Supplement
- Certificate supplement
A Europass CV can be created using Cedefop's user-friendly online editor,
## NEW EUROPASS HOMEPAGE FOR INDIVIDUAL USERS

<table>
<thead>
<tr>
<th>My Europass</th>
<th>Work in Europe</th>
<th>Learn in Europe</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Europass e-portfolio</td>
<td>- How Europass can support job-seeking and career development</td>
<td>- How Europass can support learning</td>
</tr>
<tr>
<td>- Create/ Update Europass CV</td>
<td>- Searching and Applying for a job</td>
<td>- Planning your learning</td>
</tr>
<tr>
<td></td>
<td>- Preparing to work abroad</td>
<td>- Searching and Applying for Learning Opportunities</td>
</tr>
<tr>
<td></td>
<td>- Communication your Skills for Work Purposes</td>
<td>- Volunteering</td>
</tr>
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<td>- Career Management</td>
<td>- Preparing to Learn Abroad</td>
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<td>- Communicating your Skills for Learning Purposes</td>
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EUROPASS E-PORTFOLIO

• guide users to create and manage their personal information and to summarise it in a CV;
• compile and store any relevant documentation;
• support users to identify their goals and develop their career;
• present users with personalised learning and job opportunities; and
• enable users to prepare, submit and keep track of their learning and job applications.
NEW SECTION

Qualifications and qualifications frameworks or systems

- Development of targeted information (articles and FAQs) for individual end-users.
- Transfer and update content from Learning Opportunities and Qualifications in Europe portal.
WHAT CHANGES FOR STAKEHOLDERS

Additional for stakeholders

- opportunities for validation of non-formal and informal learning:
- recognition practices and relevant legislation in different countries,
- guidance services for transnational learning mobility and career management:
- skills intelligence
- Information on skills and qualifications for third country nationals arriving or residing in the Union to support their integration:
- Relevant information for stakeholders dealing with Third Country Nationals,
### Digitally Signed Credentials
- What is the Digital Credentials infrastructure (EDCI)?
- How to implement the EDCI?

### Understanding Skills and Qualifications
- The European Qualifications Framework (EQF)
- Europass for Education and Training
- Europass for Employment and Recruitment
- Europass for Career Guidance

### Implement Europass
- Digital Signed Credentials
- Interoperability with Europass
- Europass Tools
Digitally-signed credentials are electronic records given to a person to certify the learning they have received.

*Europass shall support authentication services for any digital documents or representations of information on skills and qualifications*
Current situation without digitally signed credentials
Daniel automatically receives his degree as a digitally signed credential as soon as he graduates.

The new Europass automatically verifies both that the university is authorized to issue such a degree, and that Daniel is the intended recipient.

Daniel stores this credential either on his own device or in his Europass profile.

He can share information on his credential via Europass profile.
The **Digitally-signed Credentials** section introduces the Europass Digital Credential Infrastructure.

The **Understanding Skills and Qualifications** section

1. The EQF incl. Learning Opportunities and Qualifications in Europe Portal (LOQ)
2. How Europass tools and information can support education and training actors
3. How Europass tools and information can support labour market processes
4. How Europass tools and information can support education, training and employment choices

The **Implement Europass** section

1. Information on open standards and how to become interoperable with Europass
2. Link to the section on digital credentials
3. How to use and implement Europass tools such as the e-Portfolio including technical documentation for reuse and implementation of Europass tools.
CONCLUSIONS

NQF Databases will be linked with other databases

Europass introduces digitally signed credentials and e-portfolio

A single online repository of NQF qualifications at European level, end of separate LOQ and ESCO qualifications repositories

Interoperability ensured through open standard
THANK YOU VERY MUCH

ДУЖЕ ДЯКУЮ