

Dataset to measure past, current and forecasted skill shortages and mismatches

(Readme - Dataset_labour_skill_shortage)

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1 Overview

This dataset contains indicators of past and current labour and skills shortages and mismatches in Europe. First, data related to new hires, unemployment and skills possessed by employees is obtained from the EU-LFS and ESJS to create indicators of past and current labour and skills shortages. Secondly, data related to the perception of over- and under-skilling, wages, working hours and employment growth from LFS, EU-SILC and EWCS is used to create indicators of past and current skills mismatch variables.

The dataset is developed within the SkiLMeeT project (Deliverable D2.4: Report past, current, forecast skills).

Due to the diversity of data sources, the indicators are identified at the ISCO 2 or 3 Digit.

2 Unit of observation

ISCO 2 or 3 Digit

Each observation corresponds to a ISCO 2 or 3 Digit, the country and a calendar year.

3 Time coverage

2014 – 2023

Except for the EWCS data that are collected in 2010, 2015 and 2024.

4 Data sources

- EU Labour Force Survey (EU-LFS)
- CEDEFOP European Skills and Job Survey (ESJS)
- EU Statistics on Income and Living Conditions (EU-SILC)
- Eurofound European Working Condition Survey (EWCS)

5 Variables

- labour_short

Indicator of skill shortage from LFS

- basic_literacy

Indicator of basic literacy skills from ESJS

- advanced_literacy

Indicator of advanced literacy skills from ESJS

- basic_numeracy

Indicator of basic numeracy skills from ESJS

- advanced_numeracy

Indicator of advanced numeracy from ESJS

- basic_ict

Indicator of basic ICT skills from ESJS

- moderate_ict

Indicator of moderate ICT skills from ESJS

- advanced_ict

Indicator of advanced ICT skills from ESJS

- technical_skill

Indicator of technical skills from ESJS

- com_skill

Indicator of communication skills from ESJS

- team_skill

Indicator of team-work skills from ESJS

- custo_skill

Indicator of customer handling skills from ESJS

- pbsol_skill

Indicator of problem-solving skills from ESJS

- learn_skill

Indicator of Learning new things skills from ESJS

- plan_skill

Indicator of Planning and organisation skills from ESJS

- mean_overskill

Indicator regarding the mean perception of being over-skilled from EWCS

- mean_underskill

Indicator regarding the mean perception of being under-skilled from EWCS

- mean_wageG_perH

Indicator of the mean hourly growth wage per hour

- mean_uh

Indicator of the mean usual hours worked per week

- employment_growth

Employment growth rate between two consecutive years

- isco_3d

ISCO 3 digit code

- isco_2d

ISCO 2 digit code

- country

Two-letter ISO country code

- year

Calendar year

- year_5

Calendar year for EWCS



Skills for labour markets in the digital and green transition

SkiLMeeT is a research project carried out by eight research institutions, exploring how the digital and green transformation of European economies are changing the demand for skills. We analyse the scope of skills shortages and mismatches, identify their drivers and propose innovative ways to reduce skills gaps.

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