

ICDL DIGITAL LITERACY FORUM 2019

NAPOLI 22 OTTOBRE 2019





The Digital Skills Standard

ICDL- Global Programme

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Europe and Arab States

CONGRESSO AICA 2019
E ICDL DIGITAL LITERACY FORUM
Naples, October 22, 2019

ICDL Foundation — icdl.org

Changing nature of work

Digital technology in all workplaces

1997



2019



Cloud | Mobile | Social

90% of jobs will require
some level of
digital skills

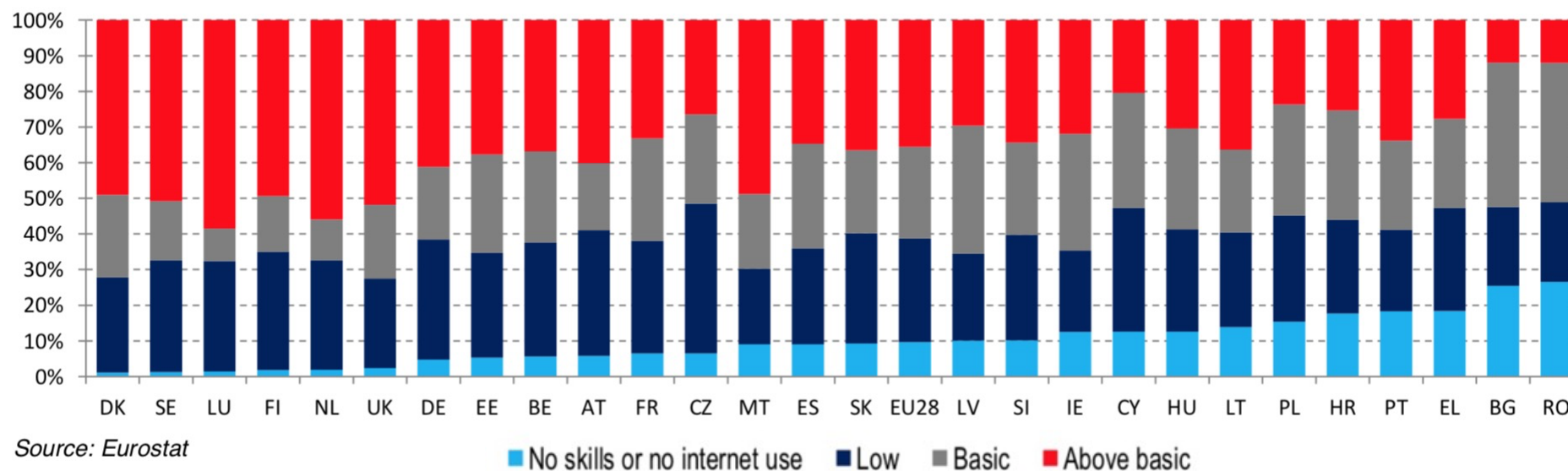
European Commission

Digital skills of the workforce

Digital adoption limited by lack of digital skills

In 2017, 10 % of the EU labour force had no digital skills, mostly because they did not use the internet. 35 % did not have at least basic digital skills, which are now required in most jobs.

Digital skills of the EU labour force, 2017 (% individuals, by skills level)*



Source: Eurostat

* Data not available for Italy

Survey methodology

Digital Skills Indicator – derived from Eurostat survey on ICT usage by Individuals

Methodological note - 2015

Recognising the crucial role of digital competence in today's society, the European Commission's 2010 Digital Agenda for Europe devoted a whole pillar to digital literacy, skills and inclusion. Furthermore, recognising the need for indicators to measure the extent of digital competence in Europe, one of the actions of the Digital Agenda was to "propose by 2013 EU-wide indicators of digital competence and media literacy" (action 62).

Following a [report of May 2014](#), DG CONNECT and the Eurostat Information Society Working Group agreed to create and publish a "Digital Skills Indicator" based on the [Digital Competence Framework](#) (developed by JRC and DG EAC, and available for self-assessment on the [Europass](#) website), and to be populated with data collected through the ICT survey on ICT usage by Households and Individuals.

The framework identifies five competence domains: information, communication, content creation, safety and problem solving. The ICT survey collects information about activities realised during the previous 3 months by internet and computer users covering four of the five domains (the safety domain is not covered as adequate indicators this domain are not yet available within the survey). It is assumed that persons having realised certain activities have the corresponding skills.

The nature of the ICT survey doesn't allow investigating proficiency levels for each activity performed. However, for each of the four domains, a set of activities have been selected (between 4 and 7), to reflect the competences outlined within each domain of the Digital Competence Framework, with the purpose of discriminating between people having, or missing, the basic skills. When there is evidence about the variety of tasks accomplished or about their complexity, a flag "above basic" is also attributed. Once these three levels of skills ("none", "basic" and "above basic") are computed for each of the four dimensions, an overall composite indicator is computed following a similar logical approach.

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<https://ec.europa.eu/digital-single-market/en/news/new-comprehensive-digital-skills-indicator>

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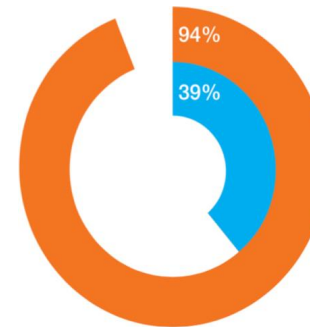
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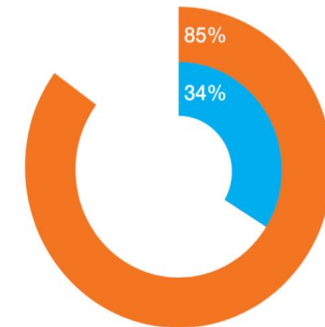
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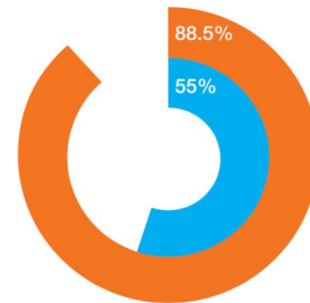
Perception and reality



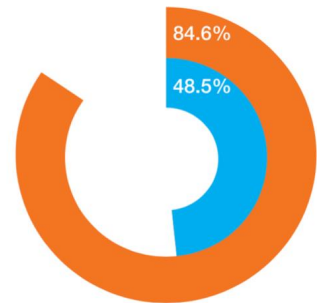
Austria
General Digital Skills



Switzerland
Using the Internet and Email



Singapore
General Digital Skills



India
Word Processing Skills



New Digital Divide

Economic divide among people and among organisations



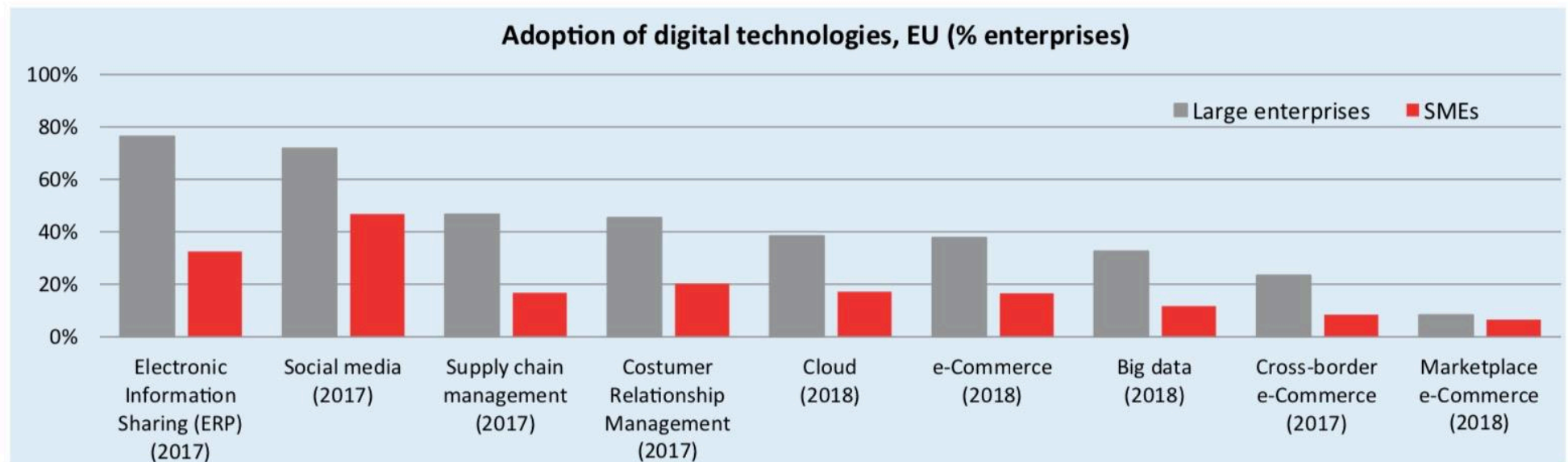
Digital Lifestyle Skills



Digital Workplace Skills

Pace of digital adoption

European experience



Desi Report 2019 – Integration of Digital Technology (source: Eurostat)

Changing nature of work

Top emerging and declining jobs

Top 10 Emerging

1. Data Analysts and Scientists
2. AI and Machine Learning Specialists
3. General and Operations Managers
4. Software and Applications Developers and Analysts
5. Sales and Marketing Professionals
6. Big Data Specialists
7. Digital Transformation Specialists
8. New Technology Specialists
9. Organisational Development Specialists
10. Information Technology Services

emerging
roles,
global
change
by 2022

133
Million

Top 10 Declining

1. Data Entry Clerks
2. Accounting, Bookkeeping and Payroll Clerks
3. Administrative and Executive Secretaries
4. Assembly and Factory Workers
5. Client Information and Customer Service Workers
6. Business Services and Administration Managers
7. Accountants and Auditors
8. Material-Recording and Stock-Keeping Clerks
9. General and Operations Managers
10. Postal Service Clerks

declining
roles,
global
change
by 2022

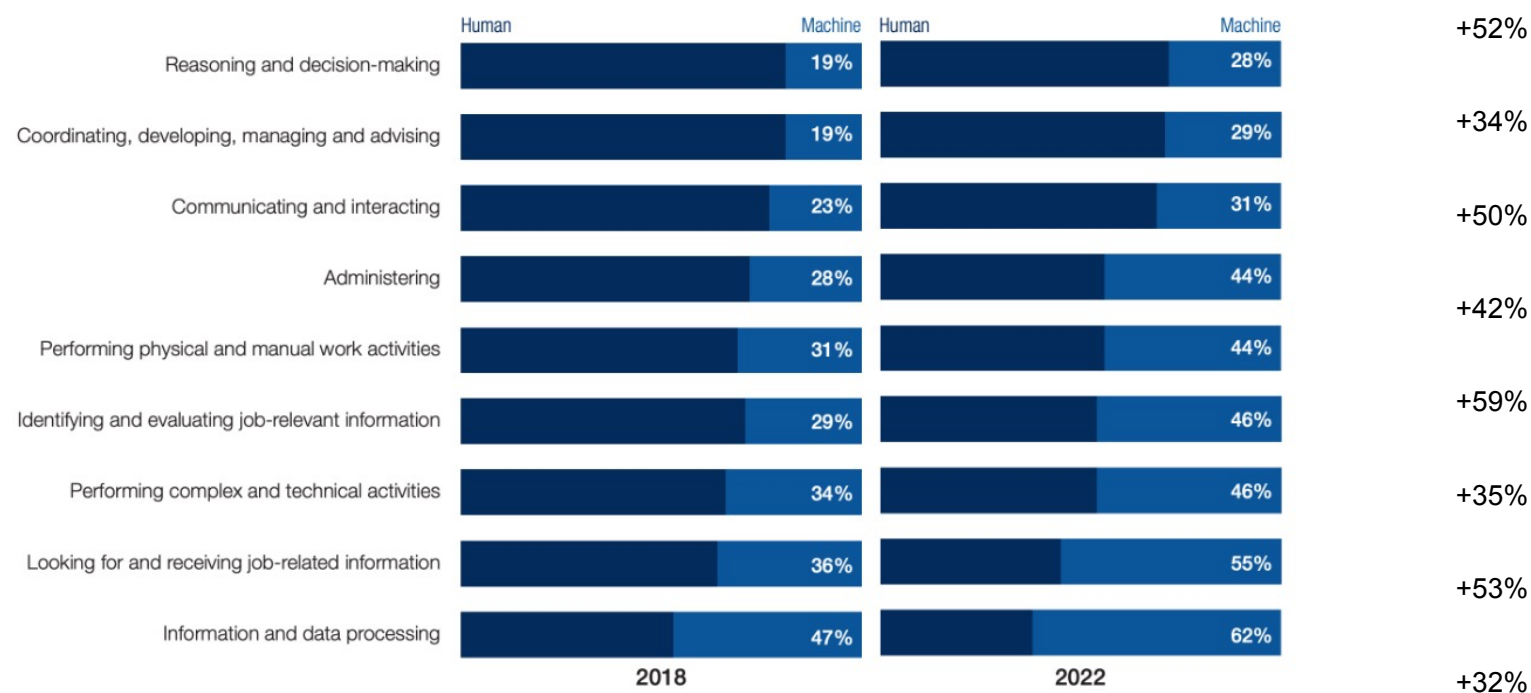
75
Million

Source: World Economic Forum's *Future of Jobs Report 2018*

Changing nature of work

Ratio of human-to-machine working hours, 2018 v 2022 (projected)

Figure 5: Ratio of human-machine working hours, 2018 vs. 2022 (projected)



Source: Future of Jobs Survey 2018, World Economic Forum.

Source: World Economic Forum's *Future of Jobs Report 2018*

ECDL Programme 1999

(Courtesy of www.waybackmachine.org/!)



EUROPEAN COMPUTER DRIVING LICENCE



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ICDL Certification.
Please click on the links available to reach our European and
International Member Countries

EUROPEAN COMPUTER DRIVING LICENCE



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Although every care has been taken by the ECDL Foundation in the preparation of this publication, no warranty is given
information or any instructions or advice contained within this publication. Ref. 180899

1. Introduction

- 1.1 The European Computer Driving Licence
- 1.2 Objectives of the ECDL
- 1.3 Benefits of the ECDL
- 1.4 ECDL Target Population
- 1.5 Level of Difficulty
- 1.6 The ECDL Standard
- 1.7 ECDL Syllabus Version 3.0 Implementation
- 1.8 Evolution in Syllabus Version 3.0
- 1.9 The ECDL Modules

2. Description Of The Modules

- 2.1 Module 1 - Basic Concepts of Information Technology (IT)
- 2.2 Module 2 - Using the Computer and Managing Files
- 2.3 Module 3 - Word Processing
- 2.4 Module 4 - Spreadsheets
- 2.5 Module 5 - Database
- 2.6 Module 6 - Presentation
- 2.7 Module 7 - Information and Communication

Celebrating 20 Years → ICDL Global Strategy

Product

Programme structure



Primary

Secondary

Higher

School

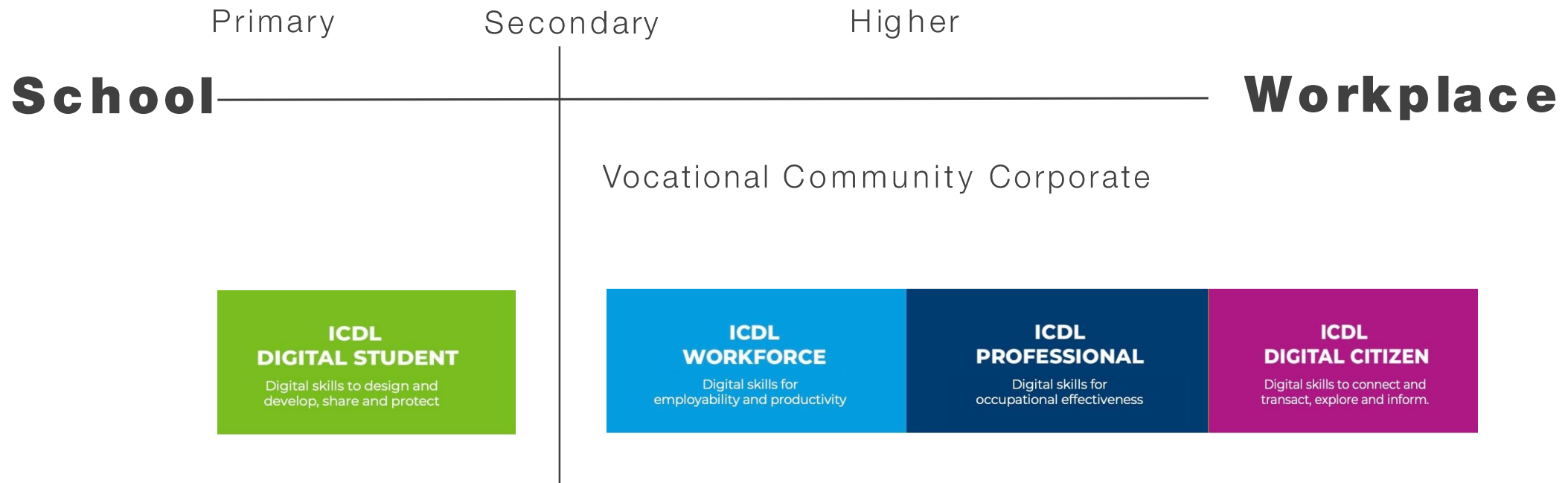
Workplace

Vocational Community Corporate

ICDL for All

Product

Programme structure



Identity

Global Context



CONNECTING EUROPE & ASIA THE EU STRATEGY



"Our approach is the European Union's way: to establish stronger networks and strengthen partnerships for sustainable connectivity, across all sectors and based on a respect for common rules. This is the European way to tackle challenges and take opportunities, to the benefit of people in Europe and in Asia as well."

#EuroAsianConnectivity

Federica Mogherini
European Union High Representative for Foreign Affairs and Security Policy
Vice-President of the European Commission



The EU has a strong track record of financing connectivity internally and externally through combining innovative financing initiatives and creating opportunities for private sector participation.

INSIDE THE EU
European Structural and Investment Funds (ESIF), and The European Fund for Strategic Investments (EFSI) support integrated investment programmes. Connecting Europe Facility mobilises investments in cross-border infrastructures for transport, energy and digital networks.

OUTSIDE THE EU
Investment Facility for Central Asia, Asian Investment Facility and the European Fund for Sustainable Development (EFSI) provide financing to catalyse additional public and private capital.

WHAT IS THE EU DOING TO CONNECT EUROPE & ASIA?



Identity



Global |Regional|National

- Global identity
 - One name – **ICDL** - a shared global standard, a global network
- Regional identity
 - Build regional relevance, belonging, contribution

ICDL Europe : ICDL Africa : ICDL Asia : ICDL Americas

ICDL Foundation

- National identity
 - Local relationships, government recognition, ATC community

ICDL The Digital Skills Standard

Global Social Enterprise



100 countries
50 million
certification tests

16 million
candidates
20,000 test centres

ACCA Southeast Asia

Contextualised modules for students and



Think Ahead



ACCA Singapore



ACCA Malaysia



ACCA Vietnam

Singapore government

New digital skills for professionals | contextualised modules for legal industry



SKILLS*future* SG

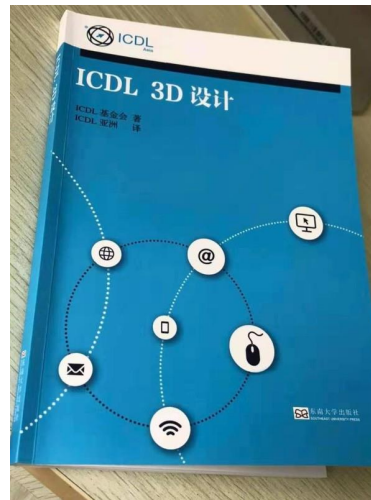


SIEMENS PLM Asia

3D Design module for students

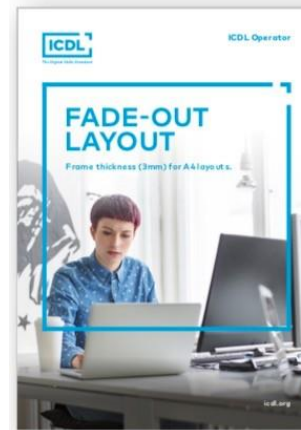
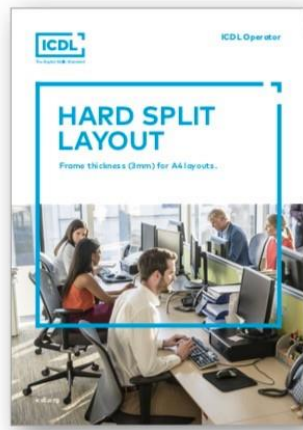
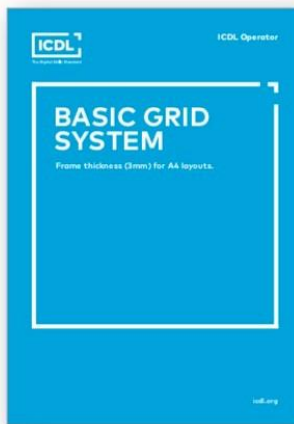
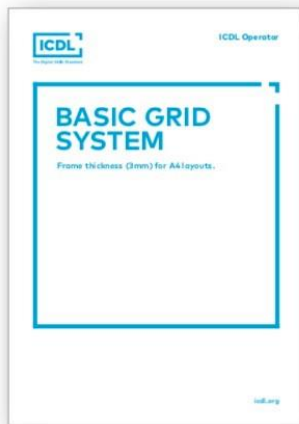


**National Centre for
Educational Technology**



**Train-the-trainer Nanjing
Vocational Colleges**

Identity



Identity

Programme identity



ICDL DIGITAL STUDENT

Digital skills to design and
develop, share and protect

ICDL WORKFORCE

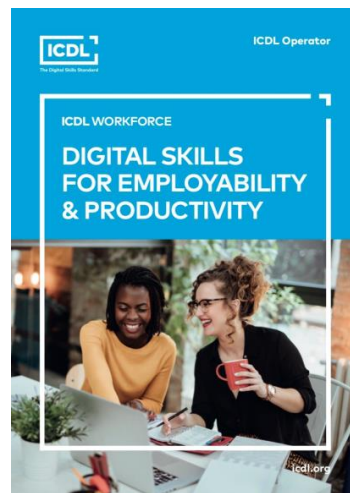
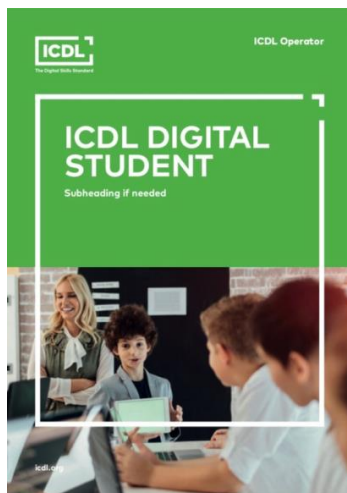
Digital skills for
employability and productivity

ICDL PROFESSIONAL

Digital skills for
occupational effectiveness

ICDL DIGITAL CITIZEN

Digital skills to connect and
transact, explore and inform.



What is ICDL

- Over 16 million candidates
- 24,000 Text Centres

[Read more](#)

Become an ICDL Test Centre

Sample Test

[Download Link](#)

Get Certified

[Read more](#)

ICDL WORKFORCE

Digital skills for employability
and productivity

ICDL PROFESSIONAL

Digital skills for enhanced
occupational excellence

ICDL DIGITAL STUDENT

Digital skills to design and
develop, share and protect

ICDL DIGITAL CITIZEN

Digital Skills to access, engage
and build computer confidence

News

[See all posts](#)

WORKFORCE CATEGORY



DIGITAL STUDENT CATEGORY



PROFESSIONAL CATEGORY



DIGITAL CITIZEN CATEGORY



Thank you – jakub.christoph@icdleurope.org

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