

Programming

20th

Skills, knowledge and abilities / Technology skills / Programming

Global Skills Taxonomy ↗

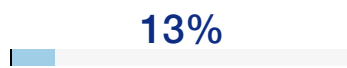
Five year trend

Learning hours spent pursuing assessments and credentials in **Programming** from 2017 to 2022 (share of total learning hours). Source: Coursera



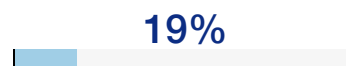
Reskilling focus

Companies for which **Programming** is a priority in their upskilling and reskilling programmes for 2023-2027 (share of companies surveyed)



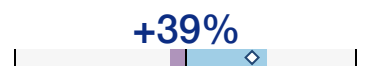
Skill importance

Companies for which **Programming** is a core skill for workers (share of companies surveyed)



Skill evolution

Share of companies for which **Programming** is **increasing** or **decreasing** in importance at work. White diamond and label represent net share.



Jobs in focus

Roles where organizations surveyed report **Programming** to be increasing in importance fastest, alongside estimates of the net job growth (percent) from 2023 to 2027.

ROLES

	NET GROWTH
1. Business Development Professionals	21%
2. Assembly and Factory Workers	-6%
3. Business Services and Administration Managers	-5%
4. Managing Directors and Chief Executives	-2%
5. Accounting, Bookkeeping and Payroll Clerks	-27%
6. General and Operations Managers	0%
7. Sales Representatives, Wholesale and Manufacturing, Technical...	0%

Time to skill

Learning hours required to achieve a credential in **Programming** at beginner, intermediate or advanced proficiency as a function of the learner's level of formal education.

Hours 0 34

FORMAL EDUCATION BACKGROUND

	BEGINNER	INTERMEDIATE	ADVANCED
All	3.9	13.4	19.1
No Bachelor's Degree	3.7	13.0	16.7
Bachelor's Degree	4.1	12.4	18.1
Graduate Degree	4.1	12.9	19.2

Strategically adjacent skills

Probability that a company which will prioritise skills training in **Programming** from 2023 to 2027 will also prioritise other skills.

Skill taxonomy Skills, knowledge and abilities Attitudes

AI and big data	65%
Analytical thinking	58%
Creative thinking	48%
Design and user experience	44%
Marketing and media	43%
Leadership and social influence	42%
Curiosity and lifelong learning	41%
Talent management	41%
Technological literacy	41%
Networks and cybersecurity	38%

Simultaneous skill development

Probability that courses in **Programming** also teach other skills. Source: Coursera.

Skill taxonomy Skills, knowledge and abilities Attitudes

Design and user experience	45%
Networks and cybersecurity	37%
Technological literacy	32%
AI and big data	30%
Analytical thinking	27%
Resource management and operations	26%
Reading, writing and mathematics	23%
Marketing and media	13%
Empathy and active listening	12%
Creative thinking	12%

Industry trends

Industry-by-industry variations in reskilling focus, current and future importance, forecast evolution in importance, and strategic focus companies will place on **Programming** from 2023 to 2027 for the industries which assign the highest and lowest reskilling focus to this skill (share of companies surveyed)

Above global mean Below global mean

