



What skills can graduates gain?

The World Economic Forum's Future of Jobs Report 2023 identifies 10 key skills that graduates should focus on developing. These skills are categorized into three groups: digital skills, social and emotional skills, and cognitive skills.

Digital Skills:

- 1. **Complex problem-solving:** The ability to analyze a complex situation, identify the core issues, and develop a solution.
- 2. **Critical thinking and analysis:** The ability to evaluate information, identify biases, and make logical conclusions.
- 3. **Decision-making and problem-solving:** The ability to make sound decisions and solve problems effectively.
- 4. **Resilience, stress management, and emotional stability:** The ability to cope with stress, manage emotions, and maintain resilience in the face of challenges.
- 5. **Teamwork and collaboration:** The ability to work effectively with others, both in person and online.
- 6. **Leadership and social influence:** The ability to inspire and motivate others, and to take on leadership roles.
- 7. **Communication and negotiation:** The ability to communicate effectively, both verbally and in writing, and to negotiate effectively.
- 8. **Self-learning and adaptability:** The ability to learn new skills and adapt to changing circumstances.
- 9. **Complex problem-solving:** The ability to analyze a complex situation, identify the core issues, and develop a solution.
- 10. **Critical thinking and analysis:** The ability to evaluate information, identify biases, and make logical conclusions.

Additional Skills

Beyond the top 10 skills, graduates should also focus on developing the following skills:

- 11. **Technical skills:** Proficiency in specific technical skills relevant to their field of study.
- 12. **Industry knowledge:** Understanding of the current trends and challenges in their industry.
- 13. **Networking:** Building a strong professional network.
- 14. **Entrepreneurial mindset:** The ability to identify opportunities and take initiative.
- 15. **Global awareness:** Understanding of global issues and the ability to work in a multicultural environment.

Where have graduates been employed?

The World Economic Forum's Future of Jobs Report 2023 identifies 10 key sectors that are expected to be the primary employers of graduates in the coming years. These sectors are:

1. **Information and communication technology (ICT):** The fastest-growing sector, driven by the increasing demand for digital services and the expansion of the gig economy.
2. **Healthcare and pharmaceuticals:** A sector that is expected to continue to grow significantly, driven by the aging population and the increasing demand for medical services.
3. **Manufacturing:** A sector that is expected to continue to grow, driven by the increasing demand for goods and services.
4. **Finance and insurance:** A sector that is expected to continue to grow, driven by the increasing demand for financial services and the expansion of the insurance industry.
5. **Retail and e-commerce:** A sector that is expected to continue to grow, driven by the increasing demand for goods and services.
6. **Transport and logistics:** A sector that is expected to continue to grow, driven by the increasing demand for goods and services.
7. **Energy and utilities:** A sector that is expected to continue to grow, driven by the increasing demand for energy and the expansion of the utilities industry.
8. **Education and training:** A sector that is expected to continue to grow, driven by the increasing demand for education and training.
9. **Construction and infrastructure:** A sector that is expected to continue to grow, driven by the increasing demand for infrastructure and the expansion of the construction industry.
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 ۲. اگر $f(x) = 3x^2 - 4x + 5$ و $g(x) = 2x^2 + 7x - 1$ باشد، $(f-g)(x)$ را بیابید.
 ۳. $f(x) = x^2 + 3x + 2$ و $g(x) = x^2 - 5x + 6$ را در نظر بگیرید. $(fg)(x)$ را بیابید.
 ۴. $f(x) = x^2 + 1$ و $g(x) = x^2 - 1$ را در نظر بگیرید. $(f \cdot g)(x)$ را بیابید.
 ۵. $f(x) = x^2 + 2x + 1$ و $g(x) = x^2 - 2x + 1$ را در نظر بگیرید. $(f/g)(x)$ را بیابید.
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