DIGITAL SKILLS unlock access to GOOD JOB\$



What are Digital Skills?

People define digital skills in different ways. One way of thinking about digital skills is a set of skills that include:



Technical Skills

The ability to adapt to ever-changing technology, use software, & operate a device



Information Skills

The ability to search, evaluate, & organize information from multiple sources



Critical Thinking Skills

The ability to make informed choices by filtering and formulating opinions



Communication Skills

Effective expression that takes into account the audience and medium



Collaboration Skills

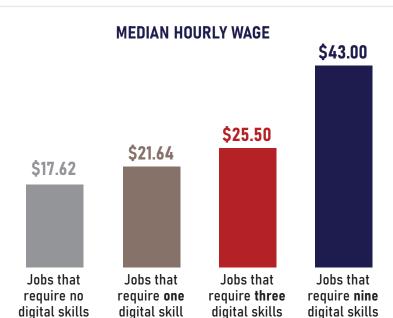
The ability to work within teams



Problem-Solving Skills

The ability to identify necessary actions in response to complex situations¹

Jobs that require DIGITAL SKILLS pay more



Source: NSC/Federal Reserve Bank of Atlanta analysis of 2021 job postings. Full report: Closing Digital Skill Divide.



Hoosiers Need Opportunities to Learn Digital Skills

Why do Digital Skills Matter?

Low-income Hoosiers who responded to the Indiana Community Action Agencies' 2020 needs assessment survey (n=5822) ranked access to good jobs with higher wages and benefits as the top community need in Indiana.²

Meanwhile, 83% of businesses in Indiana report that they are struggling to fill open positions, with 48% reporting that applicants lack the skills and qualifications they need.³

In Indiana, 89% of jobs likely require digital skills while 39% definitely do.4



Due to lack of opportunities to learn and practice digital skills, this skills gap is larger for certain groups, including older Hoosiers, those in poverty, Hoosiers of color, and those with limited English proficiency.⁵



Digital literacy programs can increase both knowledge and confidence – but likely work best when they are not one-off programs.⁶



Evidence suggests that expanding internet access and digital skills training can unlock job opportunities, increase earnings, and boost productivity.⁷



Digital skills also have important implications for educational attainment, health, and the ability to access supports to meet basic needs.⁸

Policymakers and community leaders should invest in opportunities to increase both:



Foundational Skills

Skills a person can use across multiple life tasks, such as general computer literacy, word processing, and internet use



Specialized Skills

Skills that might only apply in a particular job or role, such as coding, entering data into electronic records systems, or operating specialized machinery

Sources:

- ¹ Van Laar, E., Van Deursen, A. J., Van Dijk, J. A., & de Haan, J. (2020). Determinants of 21st-century skills and 21st-century digital skills for workers: A systematic literature review. Sage Open, 10(1), 2158244019900176.
- ² Indiana Community Action Poverty Institute (2020). 2020 Community Needs Assessment. https://www.incap.org/assets/0622_Chartbook_AppendixWithMapONLY.pdf
- ³ Indiana Chamber of Commerce (2022). Annual workforce surveys. https://www.indianachamber.com/news-resources/studies-reports/education-workforce-development/.
- ⁴ Bergson-Shilcock, A. & Taylor, R. (2023). Closing the digital skill divide: The payoff for workers, business, and the economy. *National Skills Coalition*. https://nationalskillscoalition.org/resource/publications/closing-the-digital-skill-divide/
- ⁵ Hecker, I., Spaulding, S., & Kuehn, D. (2021). Digital skills and older workers: Supporting success in training and employment in a digital world. *Urban Institute*, https://www.urban.org/research/publication/digital-skills-and-older-workers; *National Skills Coalition* (2020). Applying a racial equity lens to digital literacy. https://nationalskillscoalition.org/wp-content/uploads/2020/12/Digital-Skills-Racial-Equity-Final.pdf; Robinson, L., Cotten, S. R., Ono, H., Quan-Haase, A., Mesch, G., Chen, W., Schulz, J., Hale, T. M., & Stern, M. J. (2015). Digital inequalities and why they matter. *Information, Communication & Society*, 18(5), 569–582. https://doi.org/10.1080/1369118X.2015.1012532.
- ⁶ Lev-On, A., Steinfeld, N., Abu-Kishk, H., & Pearl Naim, S. (2021). The long-term effects of digital literacy programs for disadvantaged populations: Analyzing participants' perceptions. *Journal of Information, Communication and Ethics in Society*, 19(1), 146-162.
- ⁷ Atasoy, H. (2013). The effects of broadband internet expansion on labor market outcomes. *ILR* review, 66(2), 315-345.; Cetindamar, D., Abedin, B., & Shirahada, K. (2021). The role of employees in digital transformation: a preliminary study on how employees' digital literacy impacts use of digital technologies. *IEEE Transactions on Engineering Management.*; DiMaggio, P., & Bonikowski, B. (2008). Make money surfing the web? The impact of Internet use on the earnings of US workers. *American Sociological Review*, 73(2), 227-250.; Matli, W., & Ngoepe, M. (2020). Capitalizing on digital literacy skills for capacity development of people who are not in education, employment or training in South Africa. *African Journal of Science*, *Technology, Innovation and Development*, 12(2), 129-139.; Zhang, Z., Xia, Y., & Abula, K. (2023). How Digital Skills Affect Rural Labor Employment Choices? Evidence from Rural China. *Sustainability*, 15(7), 6050.
- ⁸ Tinmaz, H., Lee, Y. T., Fanea-Ivanovici, M., & Baber, H. (2022). A systematic review on digital literacy. Smart Learning Environments, 9(1), 1-18.