

3.4.1 Develop the next generation of cybersecurity professionals

Because of the gap in both capacity and capabilities, the region needs more people to pursue cybersecurity careers with a tailored development of skills to meet the needs of individual industries. In this context, it is important to raise the profile of cybersecurity and develop a clear policy framework for capacity and capability development (see figure 27 on page 41). National agencies in charge of driving the cybersecurity agenda need to lay out a clear strategy around cybersecurity workforce planning aimed at elevating the occupation as a strategic occupation critical to support the digital economy. This requires closer coordination with a range of public-sector agencies, including education ministries, workforce development agencies, and economic development agencies. There is also a need to constantly monitor and track specific cybersecurity skills, such as OT security. Developing forecasts of skills that are in demand and identifying plans to address them is integral to the development of the local industry.

Figure 27

Address gaps in cybersecurity capacity and capabilities



Make cybersecurity an integral part of the national careers services framework

Source: A.T. Kearney analysis

Setting up occupational standards for cybersecurity includes identifying job roles and competencies as well as accreditation of training programs and approved suppliers. A vital aspect of cybersecurity capacity is developing multiple educational pathways, ranging from classes that provide foundational skills to higher-level courses:

- **K-12.** Create awareness via outreach programs to educate the public, including children.
- **Universities.** Promote cybersecurity as a career using industry-linking programs, targeted university courses, and innovation opportunities.
- **Industries.** Scale up cybersecurity professional development via specialized skill-building and conversion programs for professionals.

Encouraging engagement between industry and academia will ensure that programs are tailored to specific industries. Setting up cybersecurity skill councils with representation from industry can be an effective way to increase engagement between industry and academia. MDEC has a three-tier capacity-building program that targets youth, university students, and the workforce (see figure 28 on page 43).

Global technology companies such as Cisco with a strong presence in the region are leading the way in developing the next wave of cybersecurity professionals (see sidebar: Cisco Networking Academy Cybersecurity Courses on page 42)