

Essential Skills for Academic Success and Cybersecurity Career

It is important to have a strong background of necessary academic and professional competencies in order to get success in a university course and be good in a profession, especially in a fast-changing sphere of Cybersecurity. It is possible to distinguish several major categories of such skills; cognitive, practical, and transferable.

Core Skills

Both academic learning and the working environment require Cognitive and Intellectual Skills, which help one to solve problems efficiently and make appropriate decisions. Analytical thinking as an example allows analyzing the information, breaking down complicated problems, and extracting logical conclusions [1]. This skill is utilised in an academic context to the evaluation of fundamental theories in a critical manner. Analysts in the field of Cybersecurity apply the same rationale in breaking down security events, analyzing large volumes of log data, and rationally explaining the cause of breach [2]. Practical Skills train the implementation of the basic concepts into the real world. This can be done academically in the implementation of models, methods and the techniques to develop artefacts or develop solutions. In Cybersecurity, this is to do with the practical uses of networking and security concepts to the content of identifying firewall configurations, execution of encryption protocols and vulnerability testing.

Cybersecurity (Career Impact)

Cybersecurity is a profession where the individual bears a great level of personal responsibility, and transferable Skills are an essential part of it [3]. The ability to effectively communicate (presenting results of studies in coherent arguments) is of utmost importance in the work to create extensive security reports and in briefing the management about the identified threats. The interaction with literature is also important. Researchers need to constantly research the new threats, vulnerabilities, and the existing standards in this field. It proves their ability to access and critically examine the wide range of credible, up-to-date sources.

References

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