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**Abstract**

In this study, I went through the Security+ certification preparation materials and research on what is the best practices of Cybersecurity that incorporates hands-on troubleshooting and solving practical security problems. I learned the security of the enterprise environment including cloud, mobile, and internet of things, network diagrams, security events and responses. Additionally, I studied different functions of Cybersecurity that include comparing security roles and controls, threat actors and intelligence, methods of enhancing security assessments, social engineering, malware analysis, cryptography, public keys, authentication controls, secure network design and security appliances.