Title: IT Cybersecurity Specialist

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Introduction

The IT cybersecurity specialist position is within the DOD (Department of Defense) in the DISA (Defense Information Systems Agency) sector. This job is important because it focuses heavily on planning, risk management, policy development, and information security. The job requires individuals to provide technical guidance on IT life cycle management, strategic planning, analyze IT support requirements, prepare and present technical briefings, and more. These tasks and responsibilities show how cybersecurity goes beyond just the technical aspect, but it can be combined with many attributes. Cybersecurity is the active protection of sensitive information, software, computer systems, and networks from attackers, unauthorized access, and data breaches. As businesses and organizations grow, there is an increase in the use of technology by these companies, and the use of cyber professionals can help provide support for these companies under any conditions. Cyber professionals help protect sensitive information like financial, medical, government, and personal information from cyber threats. In this paper, we will examine how cybersecurity and social sciences apply to the cybersecurity specialist position and what impact they have on this job and others like it.

Social science principles

Social science research plays a huge role in allowing us to understand how people behave with cybertechnology. Human error happens more frequently than technology errors because we are human with real emotions, feelings, and biases. Research allows us to understand how individuals get taken advantage of by phishing attacks, cybercrime, and failure to comply with security procedures. The Cyber Specialist application states that individuals' duties include policy development, communication, and customer service as some of their requirements for the job. This allows employers know that their employee will be able to perform these tasks and be

able to possess the behavioral skills to not be influenced by typical influences. User behavior analysis allows us to understand how and why people have weak passwords, fall into social engineering attacks, and share data improperly. Social science research is used to help develop education requirements and raise awareness of cybersecurity. An example of this is if there were a phishing campaign in a company and many employees fell for the phishing test; using social science research, organizations can implement more training in the workplace to avoid risk.

Application of Key Concepts

The Cyber Specialist position incorporates some of the topics we've learned in this class, from cybercrime and psychology to social sciences as a whole. The job description states that policy creation, strategic planning, analyzing systems, and support recommendations are all part of the job. These responsibilities require an individual to have strong communication skills, decision-making skills, and an understanding of human behavior because they focus more on humans than the actual technology. These skills also help in understanding the psychology behind why individuals fall into risky situations while online. Finally, in the context of cybercrime, the specialist position focuses on developing and implementing security standards, which helps the company fight against any cybercrime that may take place.

Marginalization

Marginalization within the cybersecurity community is more common than people know. Due to the lack of technology, there is a decline in cybersecurity education that teaches and protects people from attacks. Without the proper education, it increases their vulnerability to attacks, and they wouldn't know the proper ways to protect themselves from being attacked. These marginalised groups also face discrimination and harassment due to the sheer lack of technology and not being able to represent themselves, which makes it seem like they are behind

in some sort of way. To elevate this, we can see in the job posting that it can be applied for by anyone who is a U.S. citizen, which does have limitations for people who are not citizens, but having it be open to anyone qualified makes it more likely for people to apply.

Career connection to society

Cybersecurity professionals play a big role when it comes to the safety and stability of infrastructure. Financial, medical, transportation, and communication are all important systems that cybersecurity professionals protect to keep our society in order. Cybersecurity professionals in the financial sector protect banks from fraud. In healthcare, they protect patient medical information, and in the government, they protect classified information from all forms of attacks. In the Specialist position, they manage national security through their responsibilities and roles to protect government systems. Public policies also play a role in cybersecurity because they set the standards that cyber professionals must follow. Regarding security standards, government information, privacy control, and cyber work in general, policies allow us to understand where cybersecurity can play a role.

Scholarly journal articles

The article "*Cyber Gurus*" talks about how cyber specialists use language to communicate risks and how it has influenced the public. Through the analysis of 10 cybersecurity publications, it has been shown that cyber specialists use dramatic language that exaggerates the actual extent of a cyber threat, which leads the public to believe that cyber threats are more severe than the available evidence. The correlation between this article and the paper is that both require communication; in the specialist position, that's for briefings and recommendations, and in the article, it's to express the cyber threats.

The article "*What is a Cybersecurity Specialist"* explains how social science also plays a role in cybersecurity. It shows how cybersecurity isn't just technology but also requires an understanding of human behavior.

The article "*The Path to a Career as a Cybersecurity Specialist"* emphasises the importance of continuous learning, strong communication skills, and the ability to adapt to cyber threats and technology. Through this, the article allows me to understand how cyber specialists play a role in data protection and information systems

Conclusion

In conclusion, cybersecurity specialists use communication, planning, decision-making, human behavior, and technology all in one job. Social science research helps cyber professionals understand human behavior and how to implement security programs within organizations. Marginalized groups also play a part in cyber professions careers, but with the implementation of a U.S. citizen, the application is open to anyone qualified and can apply. In all, the Cybersecurity Specialist is a great position that allows someone not only to care for government information, but also to use creativity through the job responsibilities.

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