

# RSA<sup>®</sup>Conference2019

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**BETTER.**

SESSION ID: AST2-W02

## Hearing Voices: The Cybersecurity Pro's View of the Profession

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#RSAC

# Project Overview

- Third annual project
- 267 completed online surveys from ISSA member list +
- Small, mid-market, and enterprise organizations
  - 34% small, 6% mid-market, 60% enterprise
  - 90% North America, 10% ROW
- Multiple industries including information technology, financial, government, business services...

# Cybersecurity Challenges



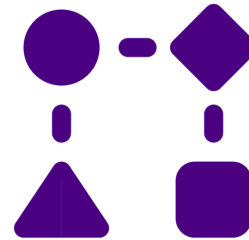
**29%**

The cybersecurity staff is understaffed for the size of my organization



**23%**

Business managers don't understand and/or support an appropriate level of cybersecurity



**23%**

My organization depends upon too many manual and/or informal processes for cybersecurity



**23%**

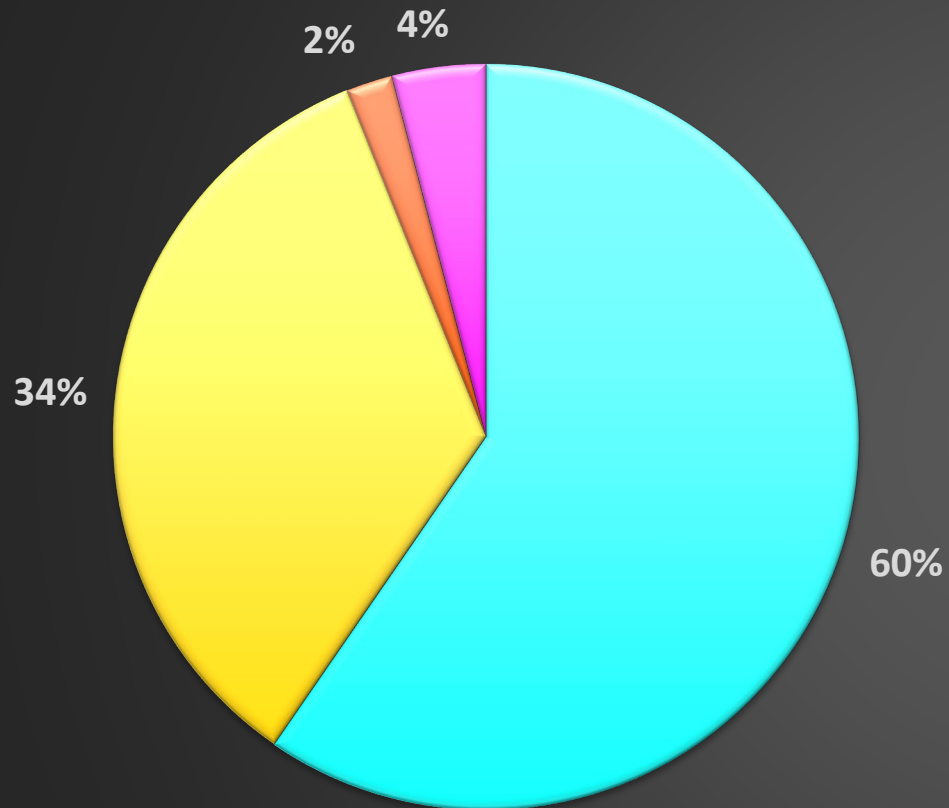
My organization depends upon too many disconnected point tools for cybersecurity

# Cybersecurity Skills Shortage

**74% of organizations have been impacted by the cybersecurity skills shortage**

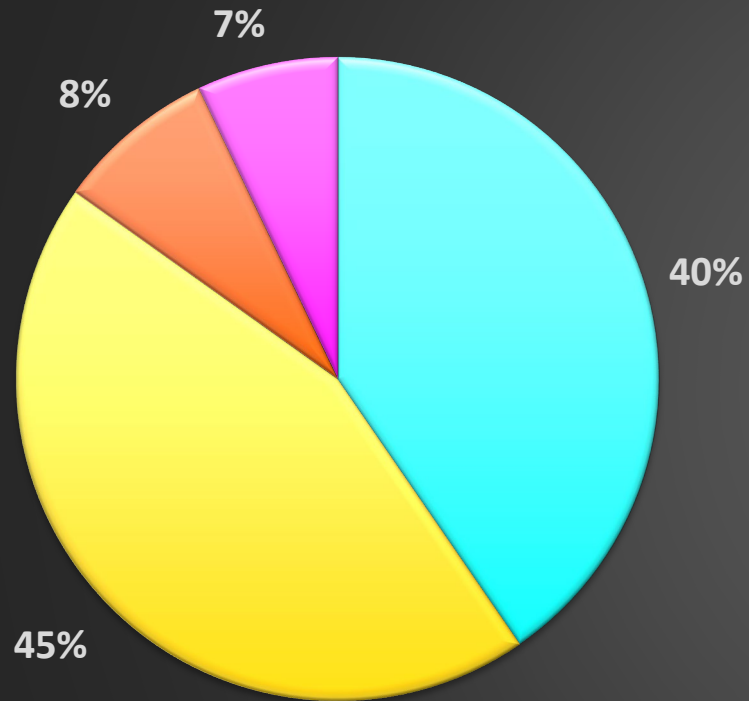


# Balance of Power



- In general, cyber-adversaries have a big advantage over cyber-defenders
- In general, cyber-adversaries have a marginal advantage over cyber-defenders
- In general, cyber-adversaries have no advantage over cyber-defenders
- In general, cyber-defenders have a marginal advantage over cyber-adversaries

# New Responsibility: Data Privacy



21% of cybersecurity professionals do not believe they have been given clear direction on data privacy

■ Yes, significantly

■ Yes, somewhat

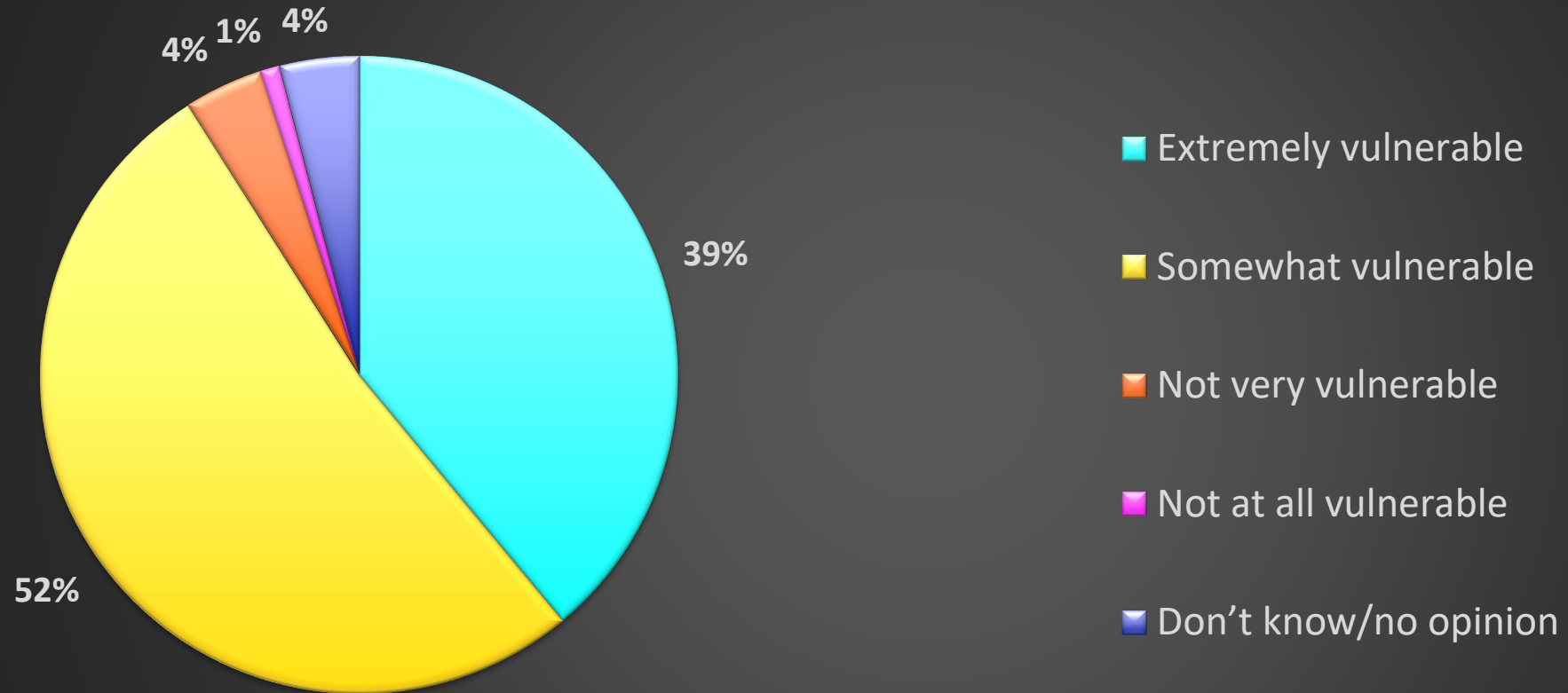
■ No, but we will be asked to do so in the near future

■ No



23% of cybersecurity professionals do not believe they have been given right level of training on data privacy

# Widespread Vulnerabilities





# Cybersecurity Professional's Opinions



**93% agree**

Cybersecurity professionals must keep up with their skills or the organizations they work for are at a significant disadvantage against today's cyber-adversaries



**66% agree**

A cybersecurity career can be taxing on the balance between one's professional and personal life



**66% agree**

While I try to keep up on cybersecurity skills, it is hard to do so given the demands of my job

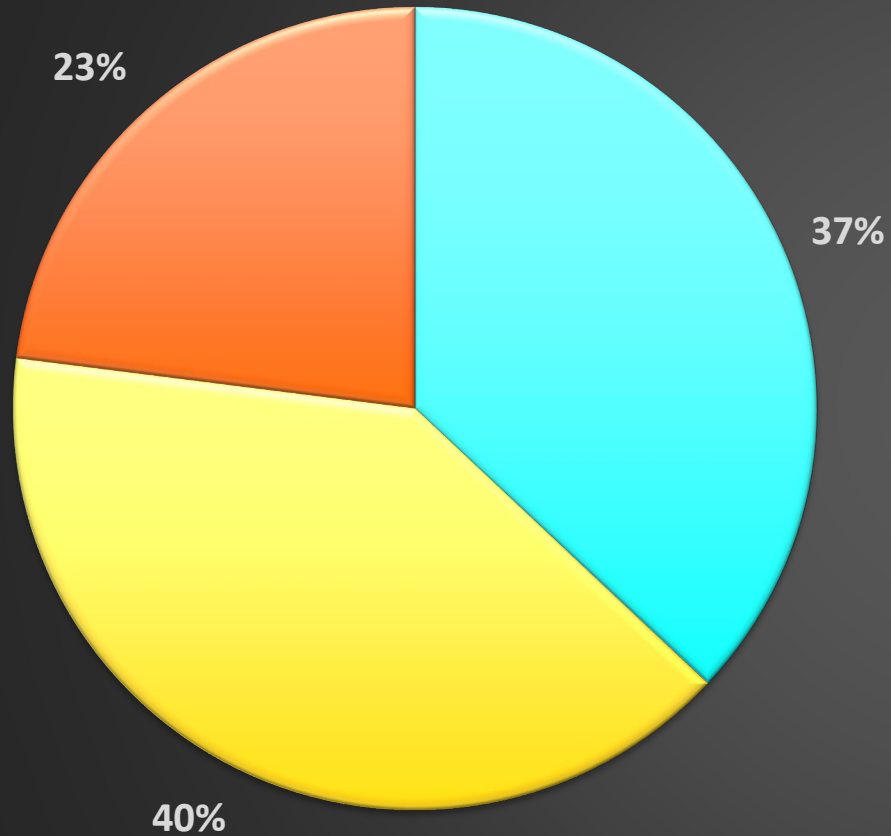


**57% agree**

Security certifications are far more useful for getting a job than they are for doing a job



# Training Levels








■ Yes

■ No, my organization should provide a bit more training so the cybersecurity team can keep up with business and IT risk

■ No, my organization should provide significantly more training so the cybersecurity team can keep up with business and IT risk

# Job Satisfaction

-  **40%:** Organization provides support and financial incentives enabling cybersecurity staff to advance their careers
-  **38%:** Competitive or industry leading financial compensation
-  **34%:** Business management's commitment to strong cybersecurity
-  **34%:** The ability to work with a highly-skilled and talented cybersecurity staff
-  **30%:** Organization provides opportunities for career advancements and promotions

# Stressful Aspects of a Cybersecurity Career



**40%:** Keeping up with the security needs of new IT initiatives



**39%:** Finding out about IT initiatives/projects that were started by other teams within my organization with no security oversight



**38%:** Trying to get end-users to understand cybersecurity risks and change their behavior accordingly



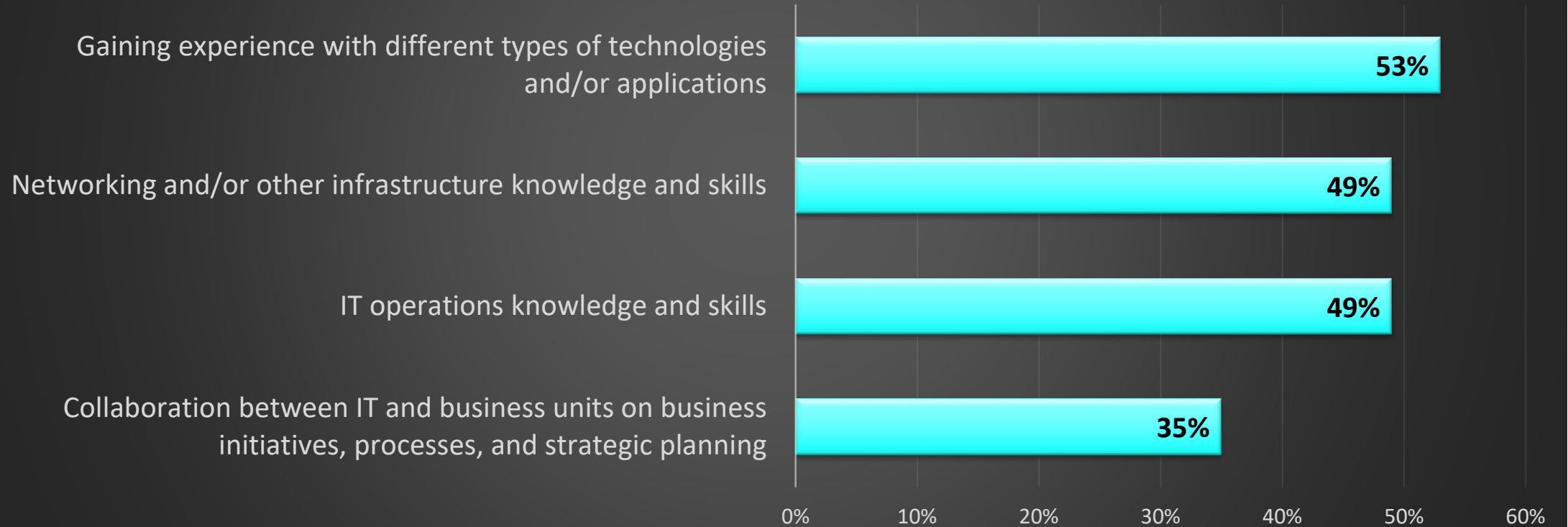
**37%:** Trying to get the business to better understand cyber-risks



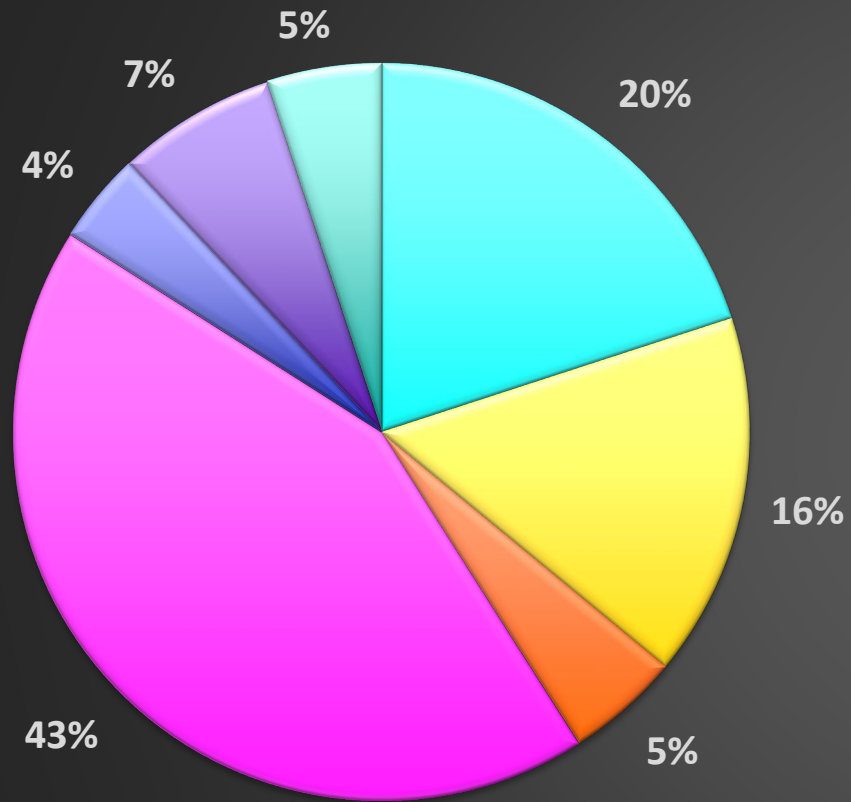
**36%:** The overwhelming workload

# Career Success Factors

As a former IT professional, which of the following were most helpful when you moved on to a career as a cybersecurity professional? (Percent of respondents, N=211, three responses accepted)

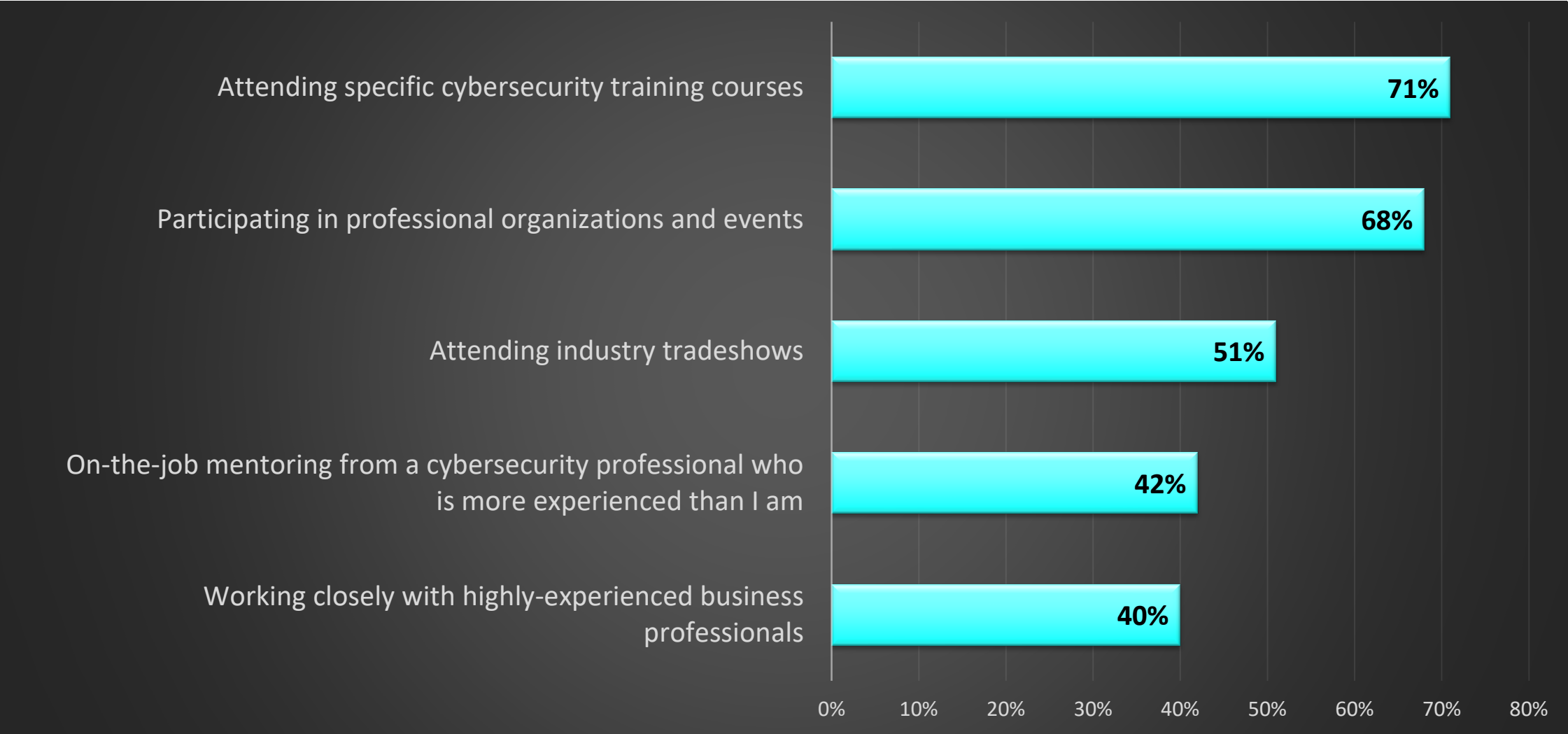


# Career Advancement



- A mentor or a career coach to help me define a uniquely personal path
- A standardized career map with progressive training, education, certifications outlined according to job titles or responsibilities
- Technical training curriculum map
- Combination of the above
- Other
- None of the above
- Don't know

# KSAs



# Certification Value



**CISSP**

CISM

CompTIA Security+

CISA

CEH

Other



# Skills Shortage and Opportunities



**33%:** Cloud computing security



**32%:** Application security



**30%:** Security analysis and investigations



**21%:** Risk and/or compliance administration

# Future Actions



**42%:** Add cybersecurity goals as metrics to IT and business managers



**42%:** Provide more cybersecurity training to the cybersecurity team



**41%:** Increase cybersecurity budgets



**40%:** Provide more cybersecurity training to non-technical employees



**39%:** Hire more cybersecurity professionals

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## Thank You!

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