Preparing the New Generation of Security Professionals

- •Marc Noble, Director Government Relations, (ISC)², Former Chief Information Security Officer, FCC
- •Karen Evans, National Director, The US Cyber Challenge
- Patrick J. Kelley, Cyber Corps Graduate
- •Earnest McDuffie, Leader, National Initiative for Cybersecurity Education (NICE), NIST
- •Brenda Oldfield, Director, Cybersecurity Education & Workforce Development, National Cyber Security Division, Office of Cybersecurity & Communications, U.S. Department of Homeland Security

IT Security EBK: A Competency and Functional Framework for IT Security Workforce Development Functional Perspectives M - Manage D - Design I - Implement E - Evaluate			IT Security Roles																		
			Executive					Functional						Corollary							
			Chief Information Officer		Information Security Officer/ Chief Security Officer		IT Security Compliance Officer		Digital Forensics Professional		IT Security Engineer		IT Security Operations and Maintenance Professional		IT Security Professional		Physical Security Professional		Privacy Professional		Procurement Professional
	1 Data Security	М		М	D E		E				D E	<u>ı</u>	E	М	D E			ļ	D E		
	2 Digital Forensics			М	D		E	M	D E			ı	_								
	3 Enterprise Continuity	М		М	E		E					ı	D		E	I	D				
Areas	4 Incident Management	М		М	D E		E	ı				ı	D E		D E	ı		M	D E		
1	5 IT Security Training and Awareness	М		М	E		E							ı	D E				D E		
ency	6 IT Systems Operations and Maintenance						E	ı	D E	I	D	M	D E								
Competency	7 Network Security and Telecommunications						E	ı	D	ı	D	M	D E								
ပ်	8 Personnel Security						E								D E		E	ı	D		
Irity	9 Physical and Environmental Security	М		М	E		E								D E	M	D E				
Security	10 Procurement	М	D	М	D E		E		E				E				E			M	D E
=	11 Regulatory and Standards Compliance	М	E	М	D E	ı	D E							ı				M	D E		
	12 Risk Management	М	E	М	D E	I	E	ı		ı		I		ı	D E	ı		M	D E		
	13 Strategic Management	М	D E	M	D E		E														
	14 System and Application Security	М		М	E		E			I	D E	I									

Mapping Professional Specialist Groups to Career Levels

Professional Specialist Group Model												
	-	Management	Technology	Architecture	Assurance	Risk Management						
Senior Executive	CISO	сто	CIO	∞	CAO	CRO						
Manager/Director	ISM,ISD, Mgr Dir, Ops Mgr/Dir, Consulting Mgr/DIR		elopment Mana ms and Infrastr	Head of Internal Audit	Information Risk Mgr/Dir Consulting Mgr/Dir							
Expert	Expert Principal Senior Dev Consultant Engineer		Senior Architect	Senior Architect	Senior Security Auditor	Principal Consultant						
Sepecialist Managerial	P	Product/Program manager, Team Leaders, Account Sales managers										
Specialist Technical	I Product		Security Designer	Security Designer	Security Auditor	Information Risk Consultant						
Entrant	Analyst	Deverloper	Security Designer Trainee	Security Designer Trainee	Security Auditor Trainee	Information Risk Trainee						

Career Levels and Traditional Paths Senior Executive CIO; CISO; CTO; CRO; COO



MANAGER/DIRECTOR

Principal Consultant;
Senior/Chief Architect;

Senior Security Auditor; Etc.

Specialist (Technical/Business)

Security Consultant; Security
Designer/Architect; Security Auditor;
Information Risk Consultant; Security
Product Manager; Business Analyst

Consulting Manager/Director; Information
Security Manager/Director; Head of
Security Audit; Information Risk
Manager/Director; Operations
Manager/Director

Specialist (Management) Project Manager; Program Manager; Team Leader; Account Manager; Sales Manager; Marketing Manager



Security Analyst; Security Developer; Security Administrator; Trainee Information Risk Consultant; Security Product Sales; Etc.

Adapted from AINSER ISPR Framework