Australian Council of Deans of ICT
AustCyber's core mission and building the cyber security workforce

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Who is AustCyber?

- Part of the Australian Government's A$250 million Industry Growth Centres Initiative

- 1 of 6 federally funded but industry led Growth Centres

- Our mission is to grow a vibrant cyber security industry in Australia

Australian Government

Department of Industry, Innovation and Science

The Sector Competitiveness Plan

And there is a plan!

The goal of the SCP is simple. Invigorate the Cyber Security industry across business, research and consumer segments to drive the ecosystem.

SCP.ACSGN.COM

Grow an Australian Ecosystem

- Help cyber security startups find their first customers
- Make access to seed and early-stage venture capital easier
- Improve research focus and collaboration to assist commercialisation
- Simplify government and private sector procurement processes
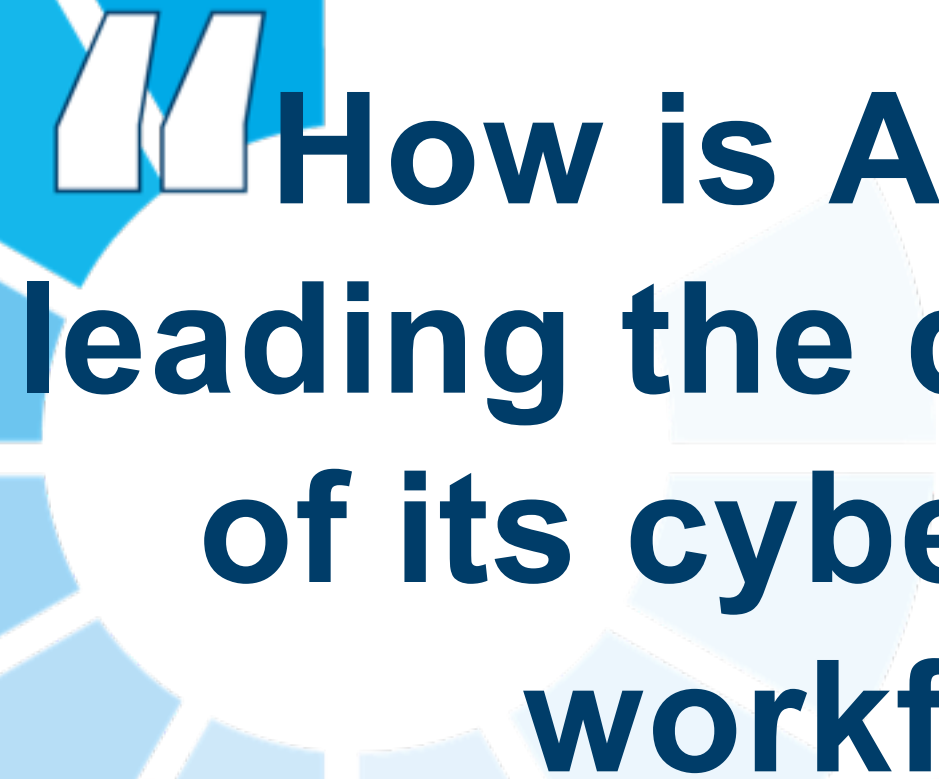
Export our solutions to the World

- Support Australian firms to develop scalable service delivery models
- Attract MNCs to use Australia as an export base for the region
- Develop cyber security as an educational export

Be the Leading Global Centre for Education

- Attract and retain the best and brightest to cyber security
- Ramp up cyber security education and training
- Create vibrant, industry-led professional development pathways

Strategic Initiatives

- Demonstrate Leadership and Alignment
- Drive Industry Collaboration and Coordination
- Accelerate Commercialisation
- Facilitate Talent Growth
- Pursue Policy Advocacy and Growth

The NICE Framework provides a robust taxonomy to analyse the structure of the core cyber workforce

National Initiative for Cybersecurity Education (NICE) Workforce Framework

Categories	Description
Securely Provision	Designs, procures, and/or builds secure information technology (IT) systems, with responsibility for aspects of system and/or network development
Operate and Maintain	Provides the support, administration, and maintenance necessary to ensure effective and efficient information technology (IT) system performance and security
Oversee and Govern	Provides leadership, management, direction, or development and advocacy so the organisation may effectively conduct cybersecurity work
Protect and Defend	Identifies, analyses, and mitigates threats to internal information technology (IT) systems and/or networks
Analyse	Performs highly-specialised review and evaluation of incoming cybersecurity information to determine its usefulness for intelligence
Collect and Operate	Provides specialised denial and deception operations and collection of cybersecurity information that may be used to develop intelligence
Investigate	Investigates cybersecurity events or crimes related to information technology (IT) systems, networks, and digital evidence

- **The NICE Framework was developed in the U.S. as a means to standardise the taxonomy of cybersecurity occupations**
- **It is a comprehensive framework of roles underpinned by the skills, knowledge, and tasks they require**

SOURCE: NICE Framework

A National Program of Cyber Security Challenges

Jobs! Disrupting traditional recruitment processes

Primary School Age 5 - 10	High School Ages 11 - 18	Higher Education	All Ages & International Competitions

Eg. Computational Thinking Challenges, Code Clubs, Cyber Awareness Programs

CyberTaipan!

Eg. Expanding Cyber Security Challenge Australia (CySCA) & Policy Challenges

Eg. CTFs, Attack the Stack, Jeopardy, IOT, Smart Cities, Operational Technology and Policy Challenges

Thanks!

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