

WHY DEMONSTRABLE COMPETENCE MATTERS

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WINS Academy

Third International Regulators Conference on Nuclear Security,
1-4 October, Marrakesh, Morocco



The WINS Vision

All nuclear and other radiological materials and facilities are effectively secured by **demonstrably competent professionals** applying best practice to achieve operational excellence.



So What's the Issue?

Minimal progress has been made to implement professional standards for Nuclear Security

Aviation and maritime security, are a long way ahead of nuclear – both have requirements for professional certification in security

We are also a long way behind the professional, certified requirements for health physicists, radiation protection advisors and other nuclear safety roles.

**The consequence of not making a change now
could be severe.**

Instead of going to your normal place of work.....

You could be facing legal action....prosecution

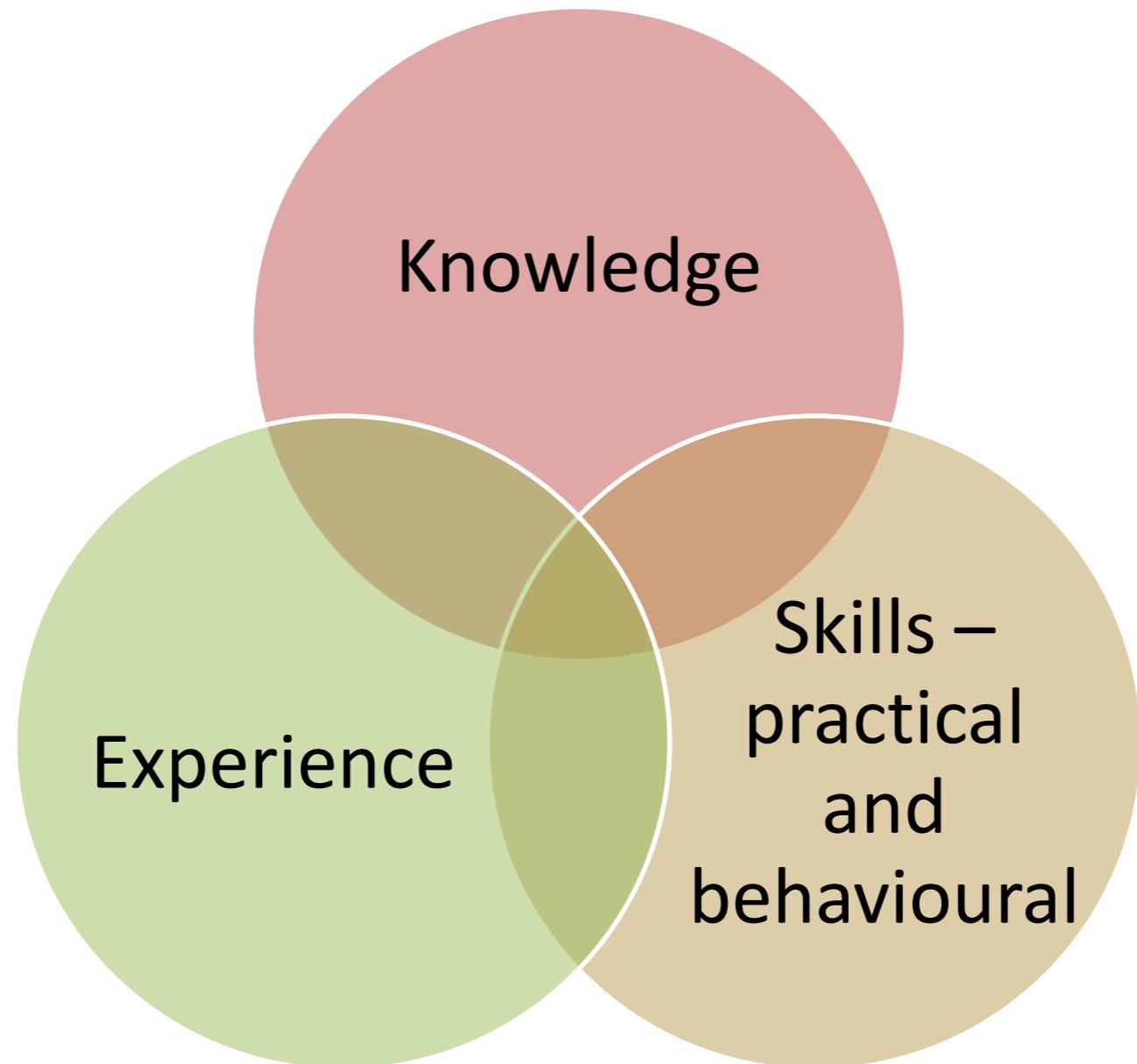


Legal (and Regulatory) Investigations

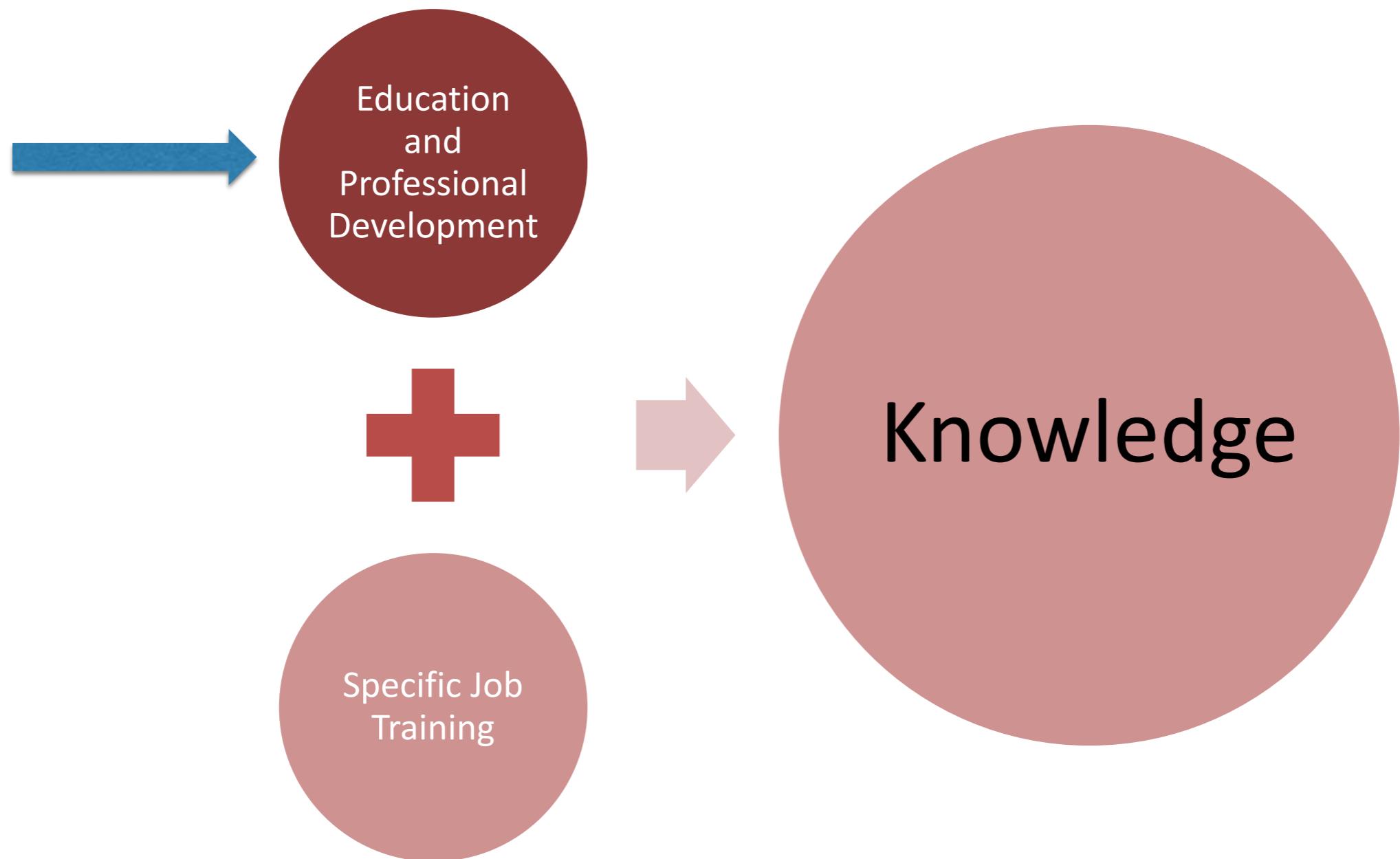
**What did you know?
When did you know it?
What decisions did you make?
What qualified you to take those decisions?**

**Were you Competent to make the Decisions?
Can you provide Evidence of your Competence?**

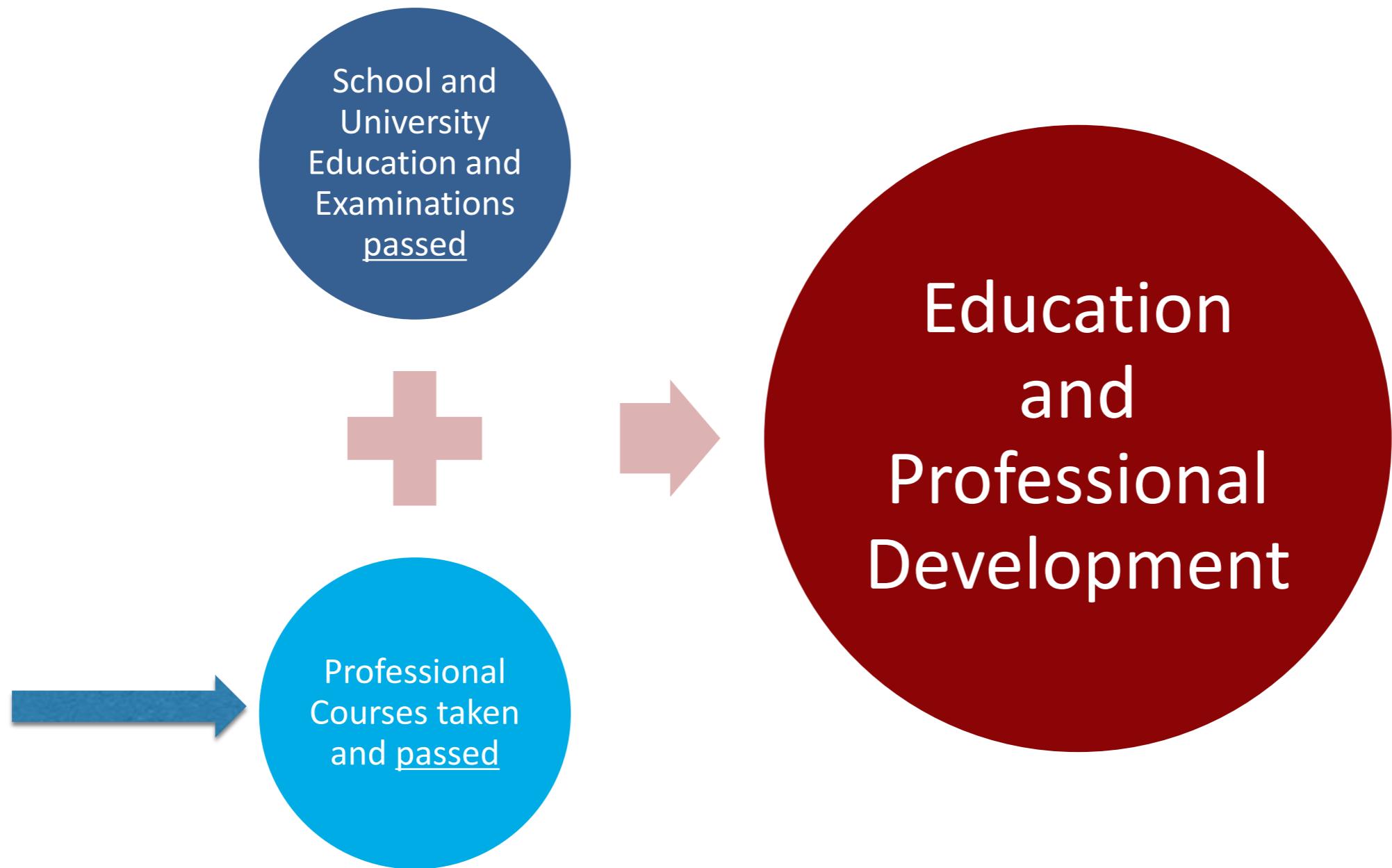
What do we mean by Competence?



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Professional Certification



(ISC)²® SECURITY TRANSCENDS TECHNOLOGY®

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(Certifications)

Our Credentialing Process

Computer Based Testing (CBT)

Associate of (ISC)²

SSCP

- ▶ Why Certify?
- ▶ How To Certify
- ▶ SSCP Training
- ▶ SSCP Domains
- ▶ SSCP For Businesses
- ▶ Exam Outline

SSCP® - Why Certify

People are the Key to a Secure Organization

Technological solutions alone cannot protect an organization's critical information assets. Employers demanding qualified information security staff give their organizations a leading edge by providing the highest standard of security for their customers', employees', stakeholders' and organizational information assets. (ISC)²®, the only not-for-profit body charged with maintaining, administering and certifying information security professionals via the compendium of industry best practices, the (ISC)² CBK®, is the premier resource for information security professionals worldwide.

Benefits of Certification to the Professional

- Demonstrates a working knowledge of information security
- Confirms commitment to profession
- Offers a career differentiator, with enhanced credibility and marketability
- Provides access to valuable resources, such as peer networking and idea exchange



IRPA GUIDANCE ON CERTIFICATION OF A RADIATION PROTECTION EXPERT



Professional Certification for Aviation Security since 2004

The screenshot shows the ICAO website with a blue header. On the right side of the header are links for "Français", YouTube, Twitter, and RSS feed. Below the header is a search bar with the placeholder "Search this site..." and a magnifying glass icon.

The main content area has a blue background. At the top left is the ICAO logo with the text "INTERNATIONAL CIVIL AVIATION ORGANIZATION" and "A United Nations Specialized Agency". To the right of the logo is a breadcrumb navigation: "ICAO > Security > ISD Security Home > AVSEC PMC".

The left sidebar has a light blue background and contains a navigation menu:

- AVSEC PMC**
- ISD Security Home
- Structure
- Assistance
- Training
- AVSEC PMC**
- ICAO AVSEC Professional Managers
- PMC Schedule
- PMC Flyer
- PMC Statistics
- AVSEC PMC Article
- Contact us

Go to

The main content area features a large white "AVSEC" logo on a dark blue background. To the right of the logo is the text "PROFESSIONAL MANAGEMENT COURSE (AVSEC PMC)". Below this is the ICAO logo.

The Aviation Security Professional Management Course (PMC) is the most advanced aviation security training programme in existence today which carries a formal designation (AVSEC PM), making it the first of its kind globally.

The programme was developed by the International Civil Aviation Organization (ICAO) in collaboration with the John Molson School of Business at Concordia University in 2004. Its aim is to provide aviation security middle and senior management personnel with new management skills and a greater understanding of the application of the Standards and Recommended Practices contained in Annex 17, while maintaining a creative and pedagogic philosophy. Emphasis is also placed on the use of the ICAO Security Manual (Doc 8973) Restricted.

Professional Certification for Nuclear Security?

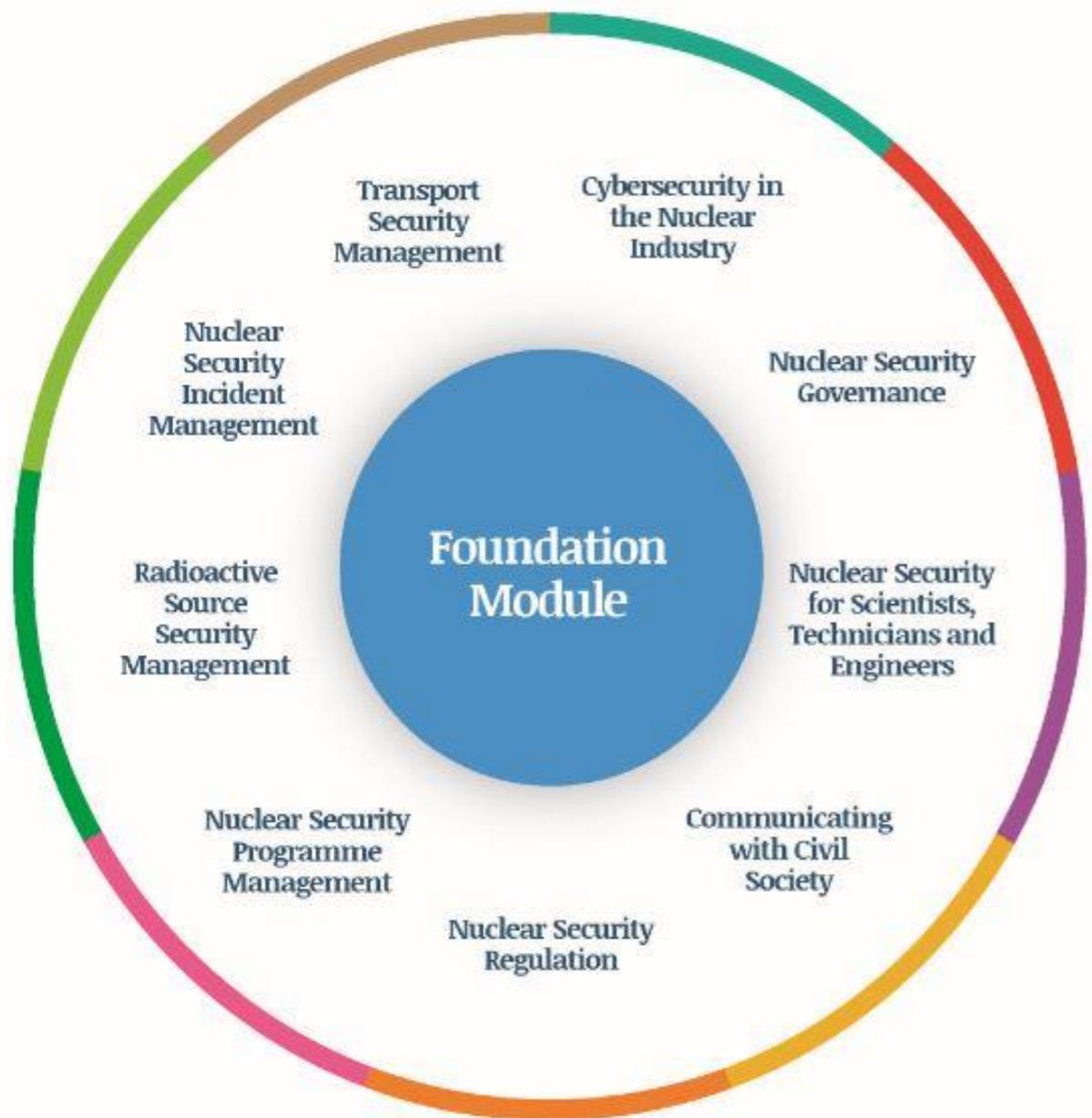
Limited availability:

- Prior to 2014 - there were NO certified professional development programmes available
- A small number of Masters' Degrees are available at Universities

The IAEA does not wish to discuss certified courses for nuclear security, *despite offering jointly certified courses in other subjects.*

So in 2014.....

The WINS Academy – launched in 2014

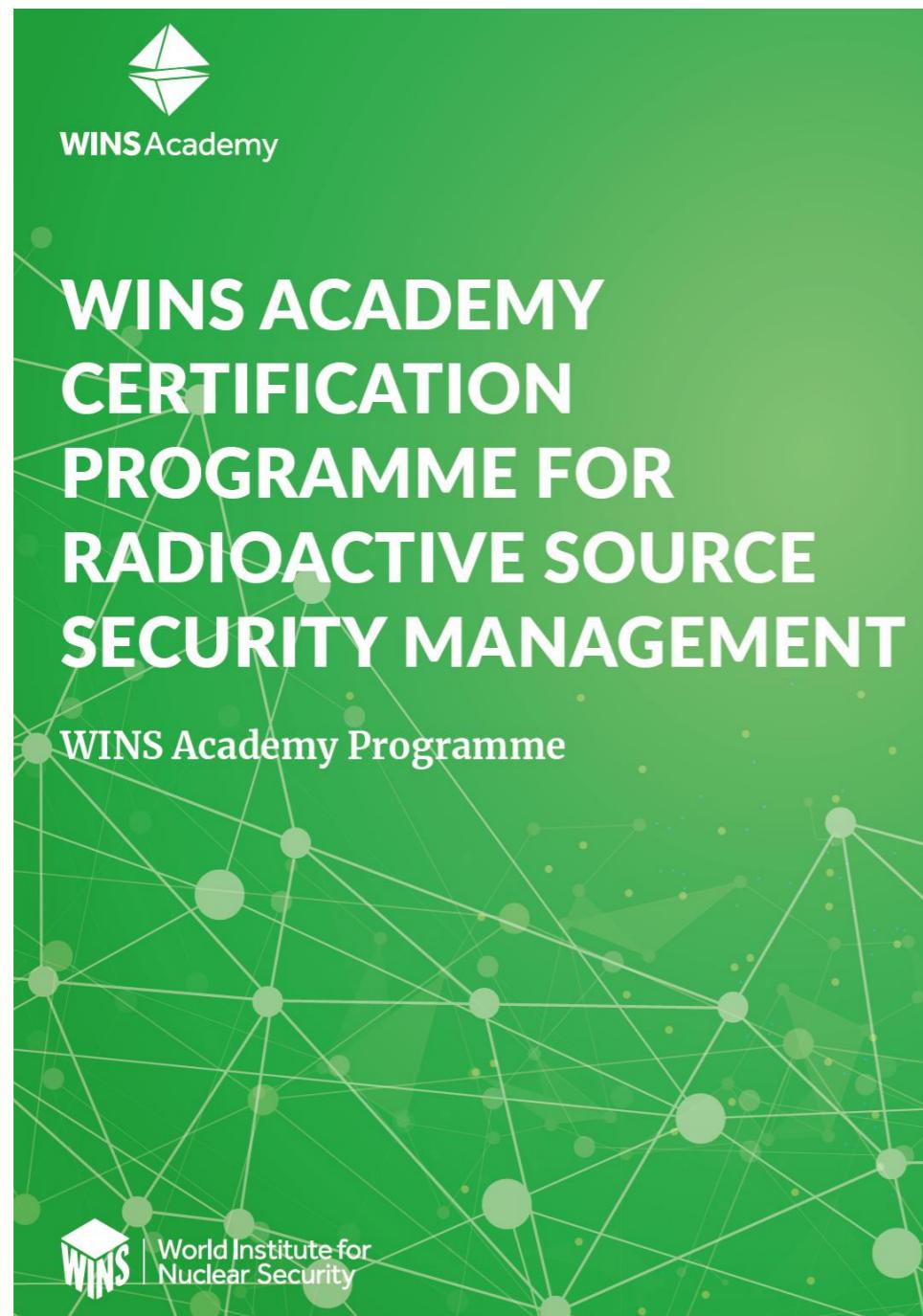


9 International Nuclear Security Certification Programmes

Each programme has 2 learning modules:

- Foundation in nuclear security
- A nuclear security elective
- Invigilated exams world wide

WINS Academy new programme – early 2020



UNIT 1: Introduction to Radioactive Sources

- 1.1 Understanding Radiation and Radioactive Material
- 1.2 How Radioactive Sources Are Used
- 1.3 How Radioactive Sources Are Categorised

UNIT 2: Radioactive Source Security

- 2.1 Security Threats
- 2.2 Security Risks

UNIT 3: Responsibilities for Radioactive Source Security

- 3.1 Global Responsibilities
- 3.2 State Responsibilities
- 3.3 Regulatory Body Responsibilities
- 3.4 Licensee Responsibilities

UNIT 4: Security Systems

- 4.1 Physical Protection Systems
- 4.2 Physical Protection Technologies

UNIT 5: Security Management (I)

- 5.1 The Security Policy and Security Plan
- 5.2 Administrative Measures

UNIT 6: Security Management (II)

- 6.1 Nuclear Security Culture
- 6.2 Human Reliability

UNIT 7: Additional Ways to Reduce Risk

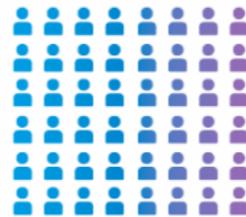
- 7.1 Risk Reduction: Alternative Technologies
- 7.2 Risk Reduction: Transport Security

Course Summary



For more information about the **course**, please visit our website at www.wins.org

The WINS Academy



97

countries have
participants in the
Academy

1477

participants are
enrolled

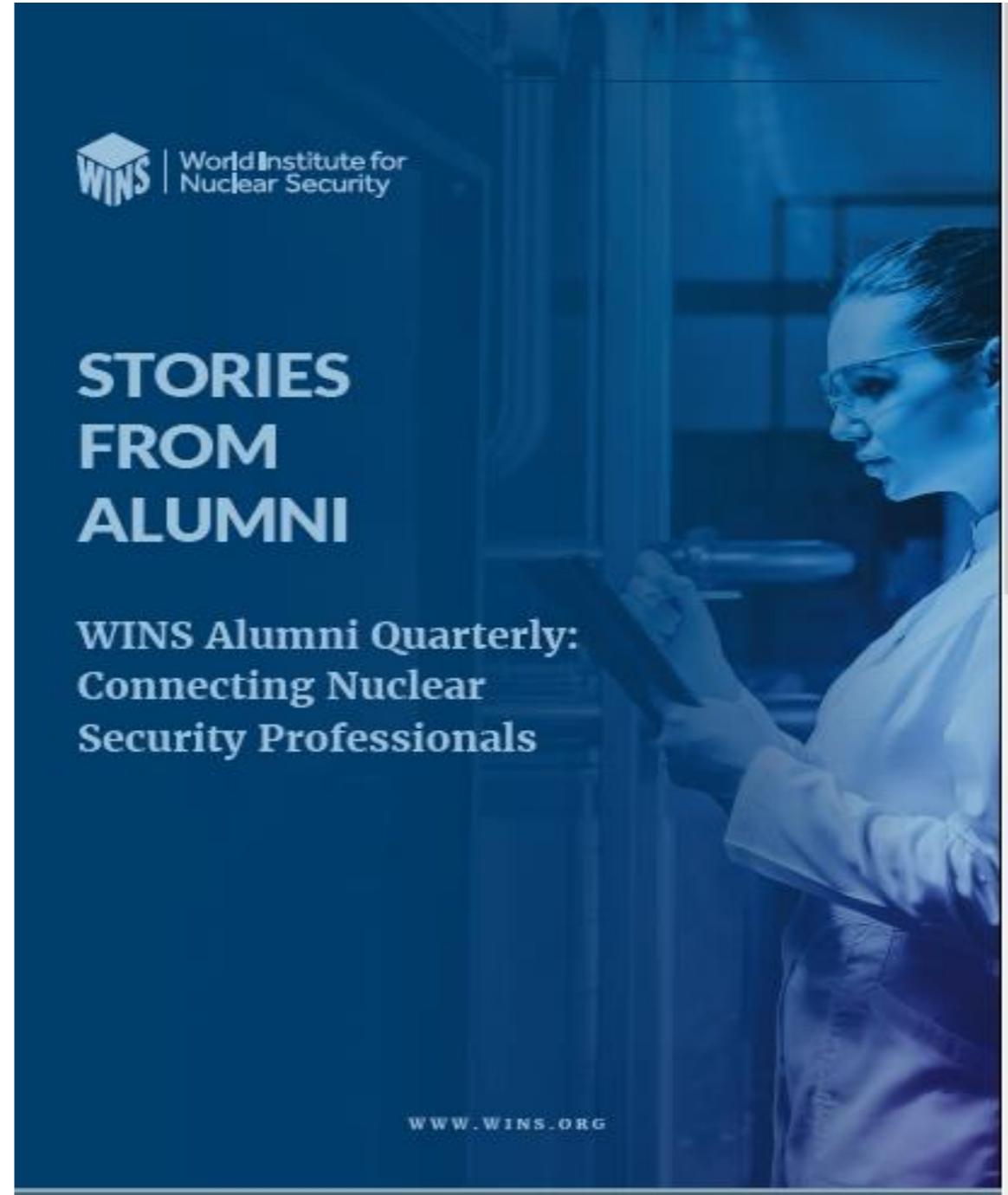
394

participants have
become Certified
Nuclear Security
Professionals



Benefits of Certification

Nuclear security professionals explain how their journey to certification and beyond has positively impacted their career.



Certification & Recognition

The WINS Academy program gave me insight into the world of nuclear security and the confidence to ask the right questions and know what tools to use in the field.

- Jessica Fahey, Security Officer



CERTIFIED NUCLEAR SECURITY PROFESSIONAL

WINS certification has provided me with internationally accepted practices I can implement in our domestic nuclear security portfolio and an international standard for measurable, demonstrated knowledge in nuclear security.

- Craig Thompson, Security Advisor



CERTIFIED NUCLEAR SECURITY PROFESSIONAL

Canadian Nuclear Safety Commission
Commission canadienne de sûreté nucléaire

e-docs # 5937115

Canada

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Commission canadienne de sûreté nucléaire

e-docs # 5937115

Canada

WINS Alumni Network Event 19.07.02 - 7

WINS certification gave me an opportunity to be part of a community of nuclear security experts and demonstrated CNSC's commitment to enhancing nuclear security objectives on an international level.

- Leeza Duval, Security Officer



CERTIFIED NUCLEAR SECURITY PROFESSIONAL

Canada

Canadian Nuclear Safety Commission
Commission canadienne de sûreté nucléaire

e-docs # 5937115

WINS Alumni Network Event 19.07.02 - 9

The WINS Academy enables nuclear security professionals to gain the knowledge they need to continue building their expertise and sharpen their skills when it comes to industry best practices.

- Yves Poirier, Team Leader in Nuclear Security Support Operations



CERTIFIED NUCLEAR SECURITY PROFESSIONAL

Canada

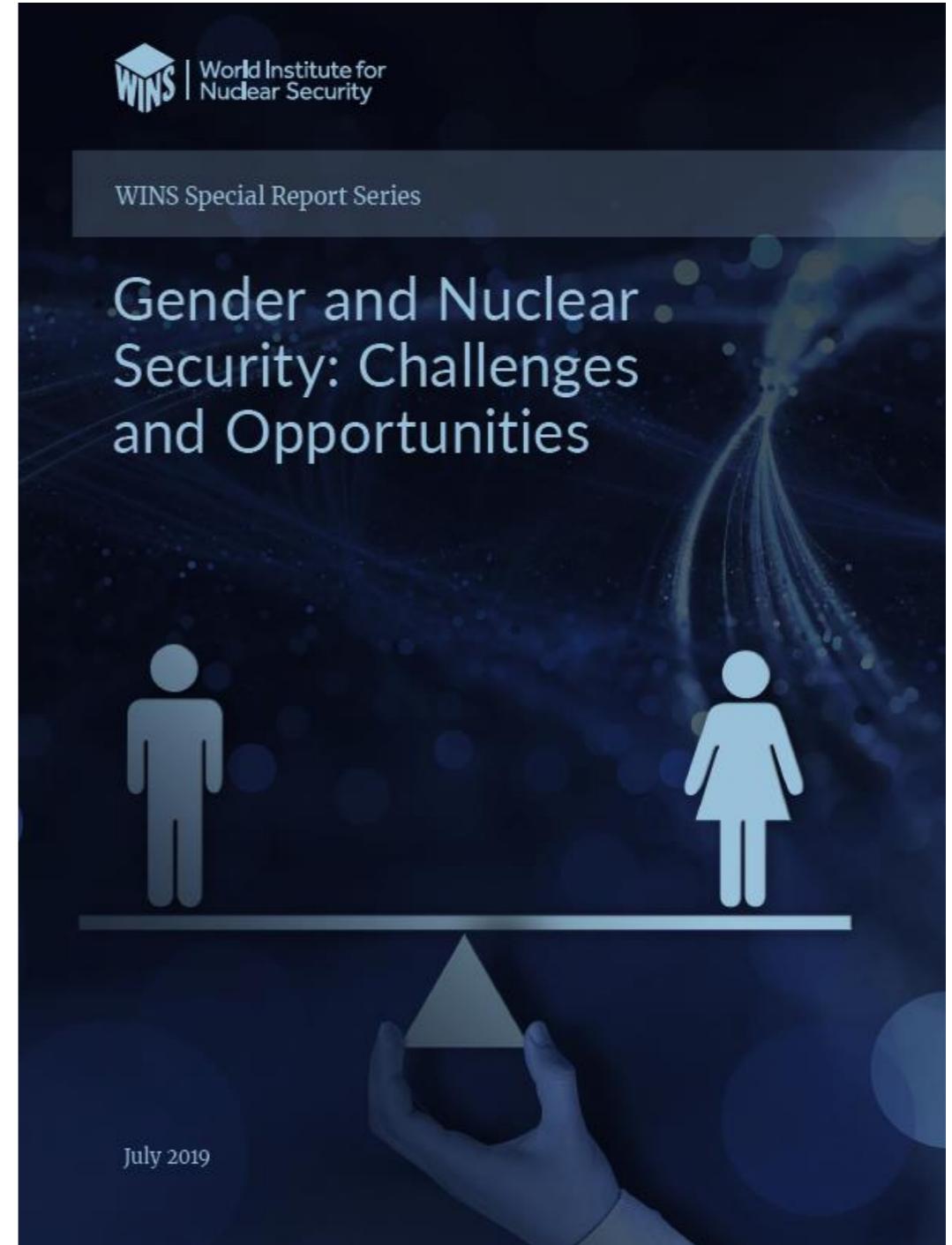
Canadian Nuclear Safety Commission
Commission canadienne de sûreté nucléaire

Addressing Gender and Diversity Issues

The nuclear sector, especially security has a strong bias towards Men - Women are under represented.

Typically Women make up 20% of the staff positions.

Diversity also needs to be addressed.



Addressing Gender and Diversity Issues

Our objectives:

- Preferentially offer WINS opportunities to women
- Women to have the confidence to challenge the barriers and be role models for others
- In 2020 we have a significant number of scholarship bursaries available for women



Concluding remarks

- The nuclear industry lags a long way behind other sectors in requiring certification for personnel with security responsibilities.
- The IAEA considers it a State responsibility.
- As such, **the attitude and actions of Regulators are of fundamental importance**, for their own staff, the Licensees and the industry.
- As the International Nuclear Regulatory community, please take action to address the need for a consistent approach for professional certification in Nuclear Security. An incident occurring through lack of perceived competence could have catastrophic impact for the nuclear industry
- Please work with us to help address the gender and diversity gap.

Thank You for Your Attention

Questions?

Contact your WINS Academy Partners

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Head of WINS Academy



World Institute for
Nuclear Security