



Australian  
National  
University

# GRADUATE CERTIFICATE OF NUCLEAR SECURITY AND SAFEGUARDS



Photo Credit: Dean Calma / IAEA

The Graduate Certificate of Nuclear Security and Safeguards (CNSSO) establishes a new professional qualification for Australia in nuclear safeguards. It is designed for graduates from a wide range of backgrounds ranging from science and engineering through to law, international relations, public policy and social science. You will join a select group of professionals who will be the regulators and compliance leads within organisations responsible for strengthening and shaping non-proliferation in a complex world.

## Why choose this degree?

This degree is crucial as Australia's use of nuclear materials grows, requiring more experts and verification tools to regulate the industry, meet treaty commitments and uphold non-proliferation standards.

Leveraging RegNet's world-class interdisciplinary capabilities and the nuclear physics expertise at ANU, along with Charles Sturt University's long-standing reputation in online education and support from ASNO, the program prepares graduates to address nuclear security and safeguard challenges across the Indo-Pacific region.

## Career paths

This graduate certificate is for those who lead (or will lead) regulatory oversight of nuclear materials and technologies — as safeguards policymakers, regulators, inspectors and compliance leads for regulated entities in government, universities and the private sector.

The program incorporates case studies, hands-on assessments, site visits and examples of nuclear safeguards and security regulation from Australia, Europe, North America and Asia-Pacific. It fosters a collaborative learning environment drawing on established scholarship, regulatory actors, guest experts and course participants.

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*The National Nuclear Safeguards Education Program is a first of its kind partnership between the Australian Safeguards and Non-Proliferation Office (ASNO), the Australian National University (ANU) and Charles Sturt University. ANU and Charles Sturt acknowledge the financial support from the Australian Government via ASNO's Verify program.*

**Provider:** School of Regulation and Global Governance, (RegNet), ANU College of Asia and the Pacific  
**Duration:** 12 months part time  
**Units:** 24  
**Teaching Mode:** Online or In person

### Degree structure

18 units must come from completion of the following compulsory courses:

REGN8026 Nuclear Safeguards Regulation: Frameworks, institutions, and standards

REGN8027 Nuclear Safeguards Practice

PHYS8201 Fundamentals of Nuclear Science

A maximum of 6 units may come from completion of the following elective courses:

REGN8024 Regulating Nuclear Capabilities

REGN8014 Contemporary Issues in Technology Governance

REGN8050 The Policy and Practice of Regulation

LAWS8316 International Nuclear Energy Law

PHYS8202 Reactor Science

PHYS8204 Fundamentals of Nuclear Radiation

PHYS8205 Nuclear Fuel Cycle

SCOM8014 Communicating Science with the Public

STST8026 Nuclear Strategy

For more information, visit: [regnet.anu.edu.au/study-regnet](https://regnet.anu.edu.au/study-regnet)

### Admissions

#### Entry requirements

A Bachelor degree or international equivalent with a minimum GPA of 4/7. All applicants must meet the University's English language admission requirements for students.

Admission to most ANU programs is on a competitive basis. For more information, visit ANU programs and courses.

#### Sponsored places (fee waivers)

With support from ASNO, sponsored places with fee waivers are available for domestic students in the first year of the program (2025).

Fee waivers are available for students planning to complete the full Graduate Certificate program (including any course credits for prior study or professional experience). Fee waivers will be awarded on a merit basis to students who have gained admission to the program.

The value of the fee waiver will be a minimum of AUD 4680 or AUD 9630 per year, depending on whether enrolment is full-time or part-time. We will confirm this when making the sponsorship offer to you.

To apply for a sponsored place, please send (a) a copy of your CV (b) a copy of your academic transcript and (c) a 1-page

letter outlining your motivation for study and how you plan to apply the Graduate Diploma in Nuclear Security and Safeguards professionally to: [regnet.education@anu.edu.au](mailto:regnet.education@anu.edu.au).

You should send your sponsorship application at the same time as your application to the program. Sponsorship applications will be processed in order of receipt, so we encourage early applications.

### Skills and expertise

#### Cognate disciplines

Cognate disciplines include: Criminology, International Relations, Law, Nuclear Science, Political Science, Policy Studies, Physics

#### Expertise

Our teaching team includes an group of researchers and regulatory practitioners with specialist knowledge of Asia and the Pacific, behaviour, crime, environment, international and domestic law, nuclear physics, justice and technology.

#### Skills

By completing this degree, students will be able to:

- Demonstrate knowledge and understanding of the international legal frameworks and institutions that regulate nuclear security and safeguards;
- Explain the principles of nuclear physics relevant to regulating nuclear technology and ensuring safeguards standards are met, including new technologies;
- Understand the role and regulatory techniques of nuclear safeguards practice and inspection;
- Analyse the role of international and domestic regulators in safeguarding nuclear materials and technologies in Australia, from diverse disciplinary perspectives; and
- Communicate regulatory issues arising from implementing nuclear safeguards in Australia to specialist and non-specialist audiences in government, industry and the public.

### How to apply

#### 2024/25 application deadlines

Domestic: 31 Jan 2025 (Sem 1); 30 June 2025 (Sem 2)

International: 31 Dec 2024 (Sem 1); 31 May 2025 (Sem 2)

For applications, visit: [programsandcourses.anu.edu.au/program/CNSSO](https://programsandcourses.anu.edu.au/program/CNSSO)

To find a scholarship, visit: [anu.edu.au/study/scholarships](https://anu.edu.au/study/scholarships)

#### Further information

E [regnet.education@anu.edu.au](mailto:regnet.education@anu.edu.au)

W [regnet.anu.edu.au/study-regnet](https://regnet.anu.edu.au/study-regnet)