

INTERNATIONAL BEST PRACTICES WORKSHOP ON INSIDER THREAT MITIGATION IN THE NUCLEAR SECTOR

(17, 22 and 23 February 2022. From 11:00am – 02:15pm CET, each day)

Initial Event Outline

SESSION 1 – THE FUNDAMENTALS OF INSIDER MITIGATION

Pre-recorded materials

- Insider threat, social science insights and application
- Addressing the insider threat – Developing a comprehensive approach

Live Session (Thursday 17 February 2022)

Understanding the insider threat and preparing for an insider event

- How human attributes and characteristic impact the implementation of security (strengths and weaknesses)?
- What can we learn from past incidents? What insider scenario is most likely to happen?
- Are we ready? What have we successfully achieved? What remains challenging?

Understanding the roles and responsibilities of each stakeholders

- What are the objectives and content of an overall mitigation strategy?
- Who are the stakeholders involved in the mitigation process? What is their role and contribution?
- The role of a robust security culture in mitigating the insider threat.

SESSION 2 – LEARNING FROM OPERATIONAL EXPERIENCE

Pre-recorded materials

- Employee trustworthiness and reliability; Behavioural observation and reporting concerns
- Mitigating the Cyber insider threat

Live Session (Tuesday 22 February 2022)

Lessons learned from implementing an insider mitigation programme

- How can we optimise vetting and background checks in a rapidly changing world?
- What are best practices for designing and implementing behavioural observation programmes?
- What are the legal and ethical challenges to human reliability programmes?

Stimulating the exchange of experience and sharing of best practices (TTX – Part I)

- Introduction of the exercise
- Scenario Phase 1 – The initial information
- Scenario Phase 2 – Incident response

SESSION 3 – CONTINUOUS IMPROVEMENT

Live Session (Wednesday 23 February 2022)

Stimulating the exchange of experience and sharing of best practices (TTX – Part II)

- Scenario Phase 3 – An evolving situation
- Scenario Phase 4 – The recovery phase
- Wrap up and evaluation of the exercise

Measuring the effectiveness of insider mitigation programmes and ensuring continuous improvement

- How can such programmes be measured for their effectiveness?
- What are relevant security metrics and key performance indicators?
- How can we integrate the insider risk into the overall risk management structure?