



U.S. NRC RIC2026



United Arab Emirates Federal Authority for Nuclear Regulation (FANR)

“Fueling Minds, Powering Reactors”

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Outlines



- **Status of UAE Nuclear Programme**
- **FANR Workforce**
- **FANR Capacity Building**
- **FANR's Integrated Talent Management Model**
- **FANR's Career Development Model and Development Programs Reactor Operators**
- **Development (Technical and Leadership Skills)**
- **FANR Research & Development**
- **Nuclear and Radiation Excellence Award (NREA)**
- **Emirates Nuclear & Radiation Academy (ENRA)**

Status of UAE Nuclear Programme



Operating License Nov 2023
Commercial Operation Sept 2024

Operating License Jun 2022
Commercial Operation Feb 2023

Operating License Mar 2021
Commercial Operation Mar 2022

Operating License Feb 2020
Commercial Operation Apr 2021



FANR Workforce

243

Total
Workforce



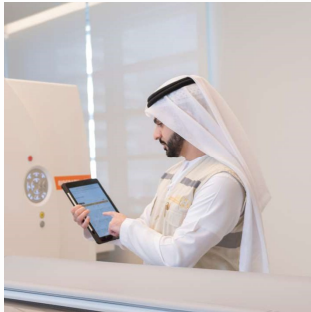
45%

Female
Employees



44%

Youth
Employees



79%

Emirati
Employees



44%

Emirati Technical
Employees



FANR Capacity Building

FANR capacity building is responsible for developing the knowledge, skills, and expertise of personnel involved in nuclear regulation, safety, security, and radiation protection in the UAE through targeted programs and initiatives.

FANR's Human Capacity Building Strategy consists of Two tracks:

Staffing by senior expatriate staff to deal with short – medium term needs.
Development and capacity building to ensure long – term sustainability.



Currently FANR holds a strong cadre of senior and experienced professionals in nuclear safety and radiation protection through:

- Staffing by senior expatriate staff to deal with short-medium term needs;
- Capacity building and development of Emiratis to ensure long-term sustainability.
- Mentoring by experienced staff.

Development of young Emiratis are provided through:

- Formal education such as undergraduate & post graduate scholarships at national and international academic institutions;
- Competency-based training programmes;
- Mentoring by experienced staff.



FANR's Integrated Talent Management Model

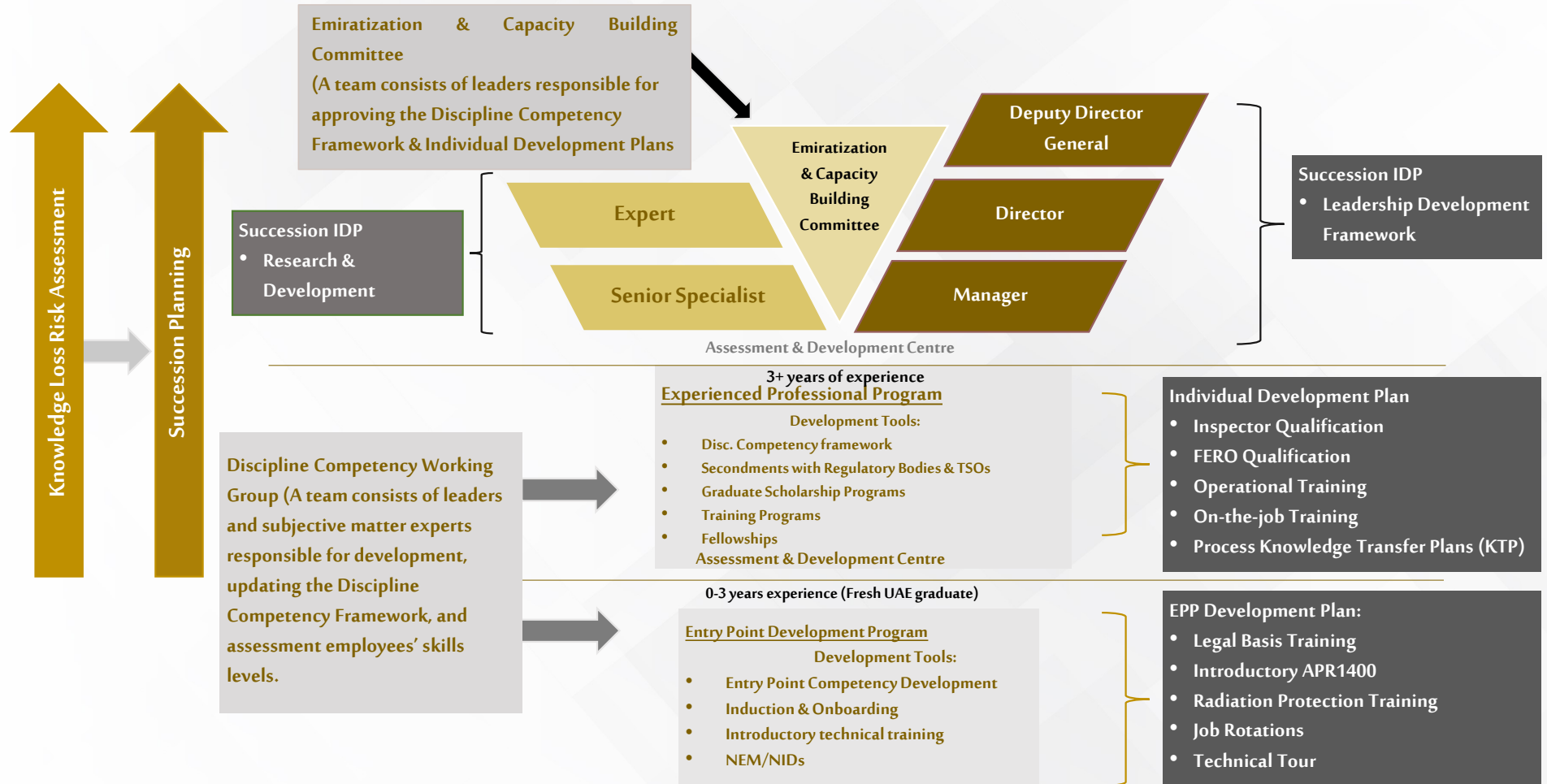
Implementing Capacity Building best practices



- Developing the sustainability of nuclear and radiological regulatory infrastructures in the United Arab Emirates.
- Ensuring the provision of all administrative services in accordance with standards of quality, efficiency and transparency.



FANR's Career Development Model



Development Programs and Building Capacities



Certification of Reactor Operators

Total Certification Issued by FANR **+230**



Robustness and Agility

- Benchmarking with a number of Regulators
- On the process of renewing the first batch's 5-years anniversary.
- **Hot Certification** - establish better plant-specific experience.
- **FANR Simulator** - train staff to enhance effectiveness in overseeing the Licensee's operational standards. (Trained more than 50+ employees on potential scenarios).



Robustness and Agility

- REG-17 Ver0 | RG-17 Ver0
- CP02 for RO/SRO Oversight

Certifications

- First batch of UAE nationals in 2019
- More than 200 Ro/SRO

2011-2019

2020-2022

2023-2024

2024 - onwards

Inspections &

- Inspections
- Hosted IAEA expert mission
- Engaging of Emirati Staff

Developed the Operator Certification Tracking System (OCTS)

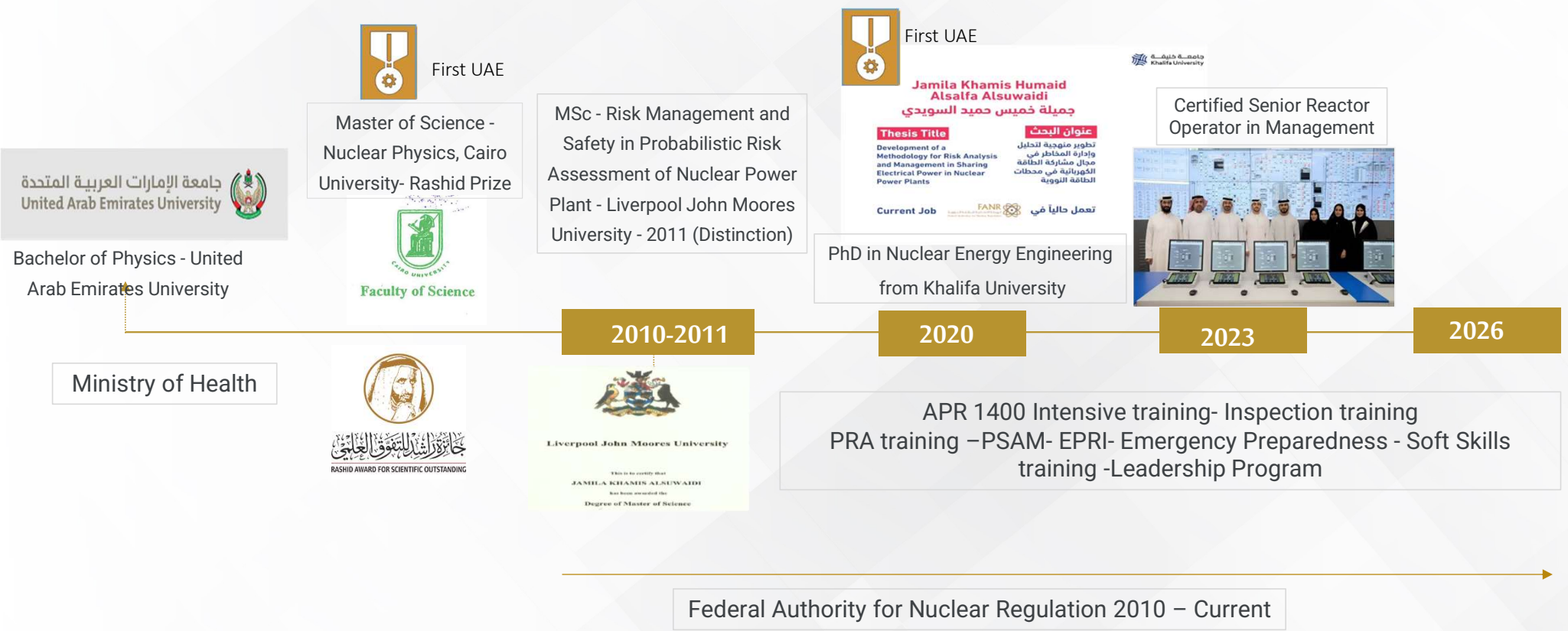


Between 2019 - Nov 2024
A Number of FANR staff completed SRO training course (5 Months Course-Certified Senior Reactor Operator in Management) to support the oversight of UAE NPP Program (5 Batches and total of 31 Graduates of FANR Staff)

CONTINUOUS IMPROVEMENT AND INTEGRATION

- Ensuring high standards and best practices are applied and other improvements

Personal Development (Technical and Leadership Skills)



FANR Research & Development

FANR Regulatory Research is strategically aimed at enhancing the Authority's scientific and technical foundation in areas marked by uncertainty, limited understanding of safety margins, or emerging regulatory challenges in the nuclear and radiation sector.




100+ Research papers/posters /presentations


35 Research projects sponsored


Over AED 40M invested in R&D (2016–2024)



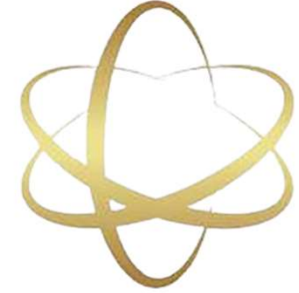
عام - Public

Nuclear and Radiation Excellence Award (NREA)

FANR
الهيئة الاتحادية للرقابة النووية
Federal Authority for Nuclear Regulation



NREA is a national initiative launched by FANR in the UAE to recognize and honor outstanding individuals and organizations contributing to the advancement of nuclear and radiation safety, innovation, and leadership. Aligned with the UAE's "We the UAE 2031" vision, the award aims to celebrate excellence across the nuclear, medical, industrial, and academic sectors.



جائزة التميز
النووي والإشعاعي
NUCLEAR & RADIATION
EXCELLENCE
— AWARD —

Emirates Nuclear & Radiation Academy (ENRA)



ENRA is a digital platform offering training and development programs that enables meeting the current and future manpower needs in the nuclear and radiological fields in the UAE. Catering to a wide range of users including students, scholars, university graduates, job seekers.



E-Learning Areas and Topics



Nuclear Energy



Radiation



Nuclear Safety,
Security and
Safeguard



Emergency
Preparedness



Stakeholder
Engagement



Human Factor



Leadership and
Management

عام - Public

Emirates Nuclear and Radiation Academy (ENRA)

[ENRA Video](#)



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