
Human Resources Development for Jordan’s Nuclear Energy Programme

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²Jordan Atomic Energy Commission
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Jordan’s Nuclear Energy Programme

- **Year 2007**: Jordan officially announced its intention to introduce nuclear power as part of its energy mix
  - The Nuclear Law was modified to allow the creation of two independent commissions:
    - Jordan Atomic Energy Commission (JAEC)
    - Jordan Nuclear Regulatory Commission (JNRC)
- **Year 2013**: Jordan Subcritical Assembly (JSA) was Commissioned
- **Year 2016**: Operation of Jordan Research and Training Reactor (JRTR)
- **Year 2017**: Start the construction of Jordan’s first Nuclear Power plant
- **Year 2023**: Operation of Jordan’s Nuclear Power Plant
Jordan’s HRD Strategy

• Utilize Jordan’s academic infrastructure
  – 25 Universities (10 public & 15 private)
  – 35 Community Colleges (15 public & 20 private)
    • Build on existing programmes and establish new ones to support Nuclear Energy Programme.

• Nuclear Education in Jordan
  – B. Sc. Nuclear Engineering at Jordan University of Science & Technology (JUST)
  – M. Sc. Nuclear Physics at University of Jordan, Yarmouk University and Al-Balqa Applied University

• Scholarships for M. Sc. and Ph. D in Nuclear Engineering and Nuclear Science from Universities outside Jordan
  – United States, Russia, France, Japan, China, Korea
Jordan’s HRD Strategy/2

- Utilization of JSA and JRTR
- Vendor supplied training
- Support through Nuclear Cooperation Agreements
- IAEA Technical Cooperation
- Development of a Jordan-Specific Qualification and Certification Programmes
- Specialized Training in International Codes & Standards
  - Transition to JNRC Developed/Adopted Standards, Codes, Regulations
JUST: Nuclear Engineering Programme

• B. Sc. Programme started in 2007
• Graduates: 75
• Students: > 100
• Faculty Members: 6 (+ 3 to join in Fall 2014)
• Facilities:
  – High Performance Computing lab.
  – Radiation Detection and Measurement Labs.
  – Internet Reactor Lab. (IRL)
• Jordan Subcritical Assembly (JSA)
• Jordan Research and Training Reactor (JRTR)
Internet Reactor Lab. (IRL)
Jordan Subcritical Assembly (JSA)

• Jordan’s first Nuclear facility.
• Designed and constructed for the purpose of education, training, and experimental research.
• Inherently safe
• Hands on experience for students and trainees
• Commissioned in June 2013
Jordan Research and Training Reactor

- Multipurpose open pool type research reactor
- 5MW upgradable to 10 MW
- Plays the primary role in educating and training the upcoming generations of nuclear engineers and scientists
- Planned to be commissioned in mid 2016.
# Training Plans for Jordan’s Nuclear Power Plant

## NPP Training Chart Schedule

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**Before contract signing**

**Before fuel loading**

FCD = First Date
Thank you...

Questions???