



**The Abdus Salam
International Centre for Theoretical Physics**



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Joint ICTP-IAEA School of Nuclear Knowledge Management

1 - 5 September 2008

Networking for Education & Training in the UK

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Networking for Education and Training in the UK

Session 6

Friday 5 September 2008

Ian Upshall

Nuclear Decommissioning Authority

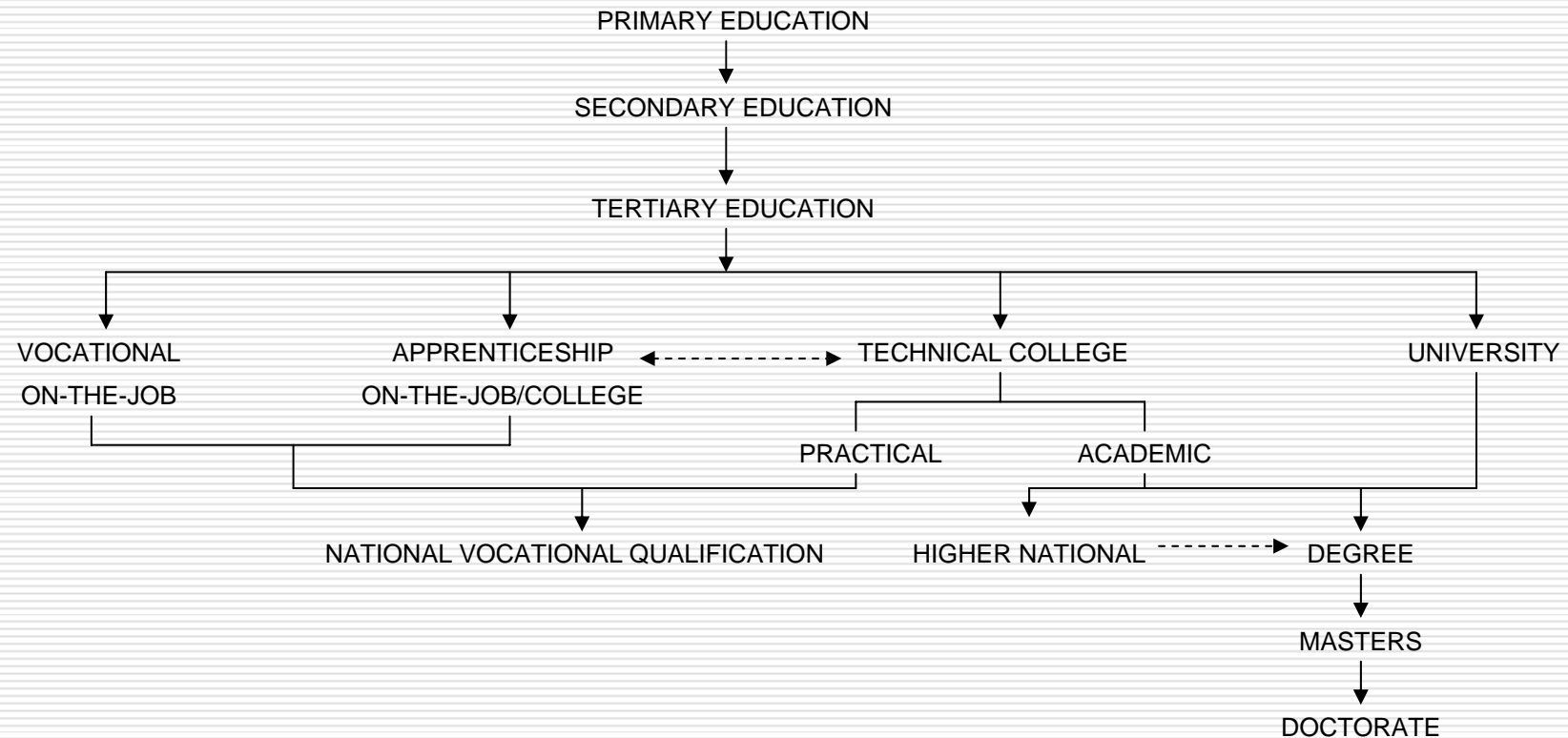
Presentation Scope

- ❑ Nuclear Industry Needs
- ❑ Academic and Vocational
- ❑ The big picture

Nuclear Industry Needs

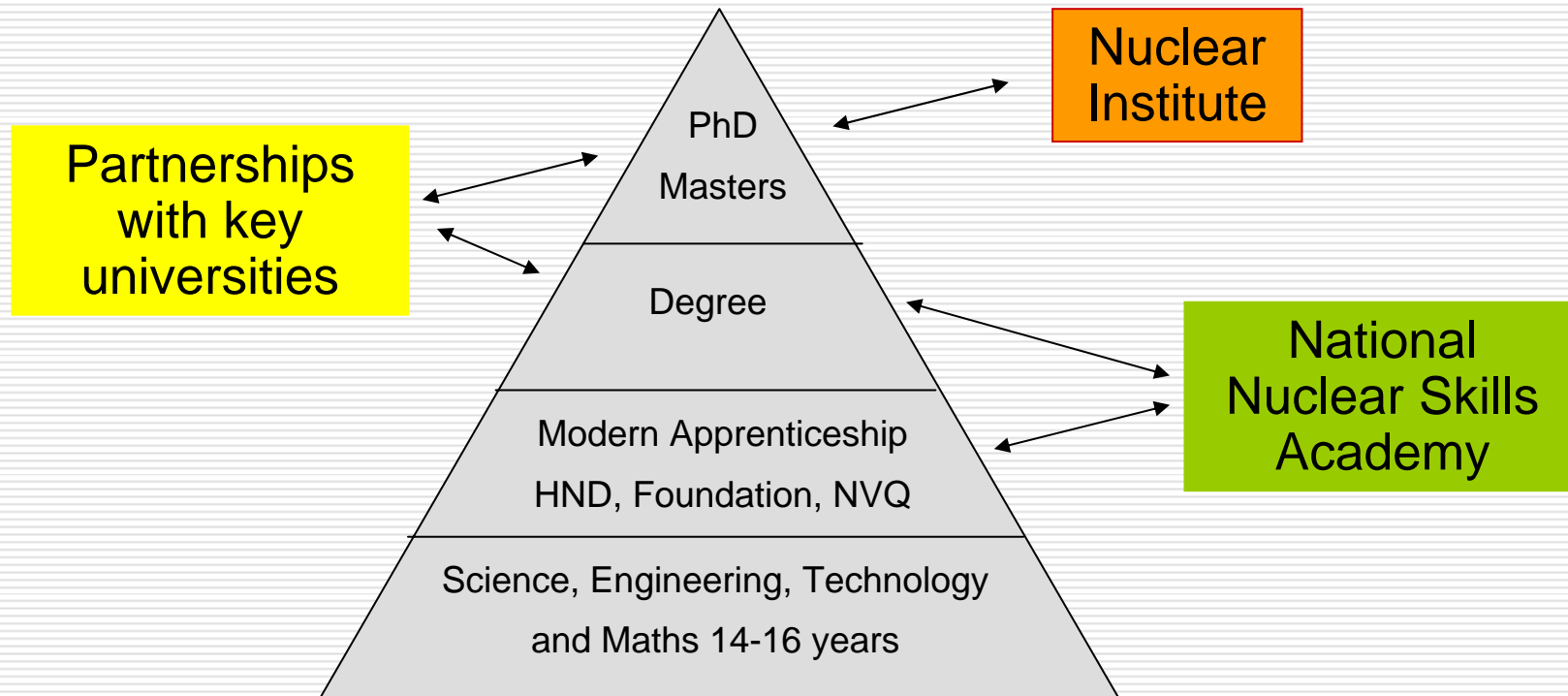
- Government (Department of Trade and Industry) Report 2005
 - Nuclear Skills Group
 - 30,000 recruits in next decade
 - Physical sciences
 - Engineering

Education and Training in UK



NDA Strategy

“We will ensure the industry has a sufficiently skilled workforce to carry out our mission”



Specialist Education

- ❑ Foresight Programme
- ❑ National Skills Academy for Nuclear (NSAN)
- ❑ Dalton Nuclear Institute
 - University of Manchester
- ❑ Nuclear Technology Education Consortium
 - Universities of Birmingham, Liverpool, Leeds, City, Imperial, Lancaster
- ❑ Nuclear Graduate Training Programme

Energy Foresight Programme

- National Curriculum for science Key Stage 4 (14-16 year olds):
 - Stimulate interest in science
 - Develop thoughts around moral and ethical issues of nuclear industry
 - Encourages interest in nuclear sector as potential employer

NSAN

- National Skills Academy for Nuclear
 - Network of skills centres across UK coordinated by NSAN
 - Launched January 2008
 - Develop skills of the workforce needed to fulfil NDA mission
 - NDA contribution is The Nuclear Academy in Cumbria and Scottish Nuclear Skills Academy

Dalton Nuclear Institute

- DNI is coordinator of the Nuclear Technology Education Consortium
 - MSc in Nuclear Science & Technology
 - Nuclear EngD scheme

- Examples of NTEC modules:
 - reactor physics, fuel cycle, safety case development, criticality, policy, materials, decommissioning, thermal hydraulics

Graduate Training Programme

- ❑ Four secondments over two years
- ❑ 480 hours dedicated training
- ❑ 10% voluntary time
- ❑ Two dedicated mentors
- ❑ Directorial sponsor

Supported by 20 of the UK's leading companies