

Experts in developing, sourcing and supporting <u>high quality skills solutions</u>. A service for the whole of the nuclear industry.

Apprenticeships | Graduate Development | Subject Matter Experts | Workforce Competence | Industry Standards Support Funding | Approved Training | Business Development | Building Capability | Employer-Led Solutions

Join our network as a business or provider | W nsan.co.uk | T 01900 898120 | E enquiries@nsan.co.uk

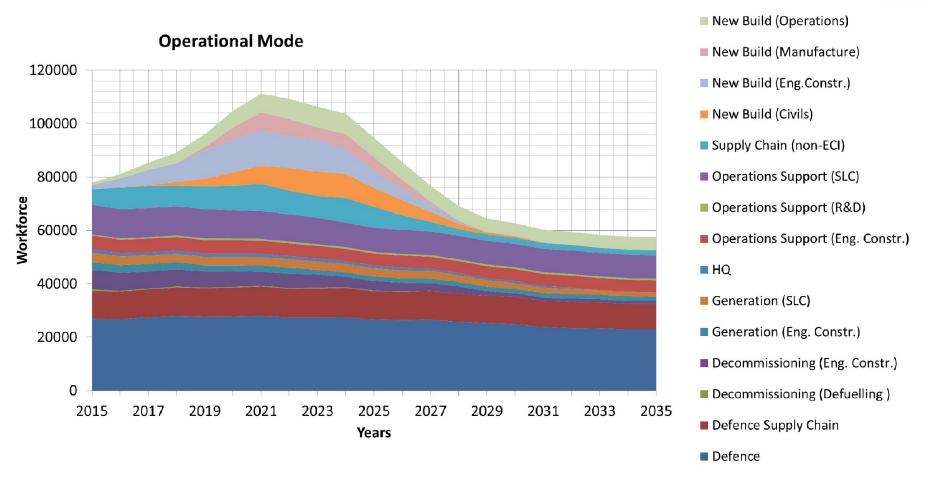
## Demonstrating Competence and Capability in the Nuclear Supply Chain



Background - UK nuclear industry skills profile/demand 2015 Drivers for Growth in the UK Nuclear Programme Role of the Supply Chain Supply Chain Challenges Skills Solutions Skills Assured Conclusions and Next Steps



#### **UK Nuclear Industry Skills Profile/Demand 2015**





#### **Drivers for Growth in UK Demand for Skills**

- Extensive decommissioning progamme
- Nuclear new build
- Enrichment and fuel manufacture
- Operating the current fleet
- Waste management, disposal and storage
- New technology Gen IV, SMRs etc.
- Maintaining defence capability



#### **Role of the Supply Chain**

- Supply chain are crucial for successful programme delivery, bringing innovation and technology improvements
- In counties with existing nuclear e.g. UK circa 40% of work done by supply chain
- Likely to be a much higher supply chain % in new to nuclear countries
- Supply chain work across sectors and counties
- Supply chain role particularly dominant in the build phase of a new nuclear programme

#### **NSAN Mission 2016**



We are dedicated to improving skills in the nuclear industry by setting the highest standards of excellence, leading the sourcing and provision of solutions and expanding our sector's capabilities.

We will achieve this by working collaboratively to deliver outstanding levels of service, enhancing the value we provide to members.

#### **Advisory Board (AB) Members**





Mark Rouse (Chair) Cavendish Nuclear



Alex Lewis BAE Systems Maritime Ltd



Andrew McFarlane Atkins Ltd



Andrew Robinson Arc Energy Resources



Andy Stevens MoD



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Tim Hopkinson Hargreaves Ductwork Ltd



Tony O'Pray TIS Cumbria Ltd



#### **Supply Chain Challenges**

- Need for sites to enable flexibility and mobility of the workforce so can move skilled staff to areas of demand
- Lack of nationally recognised training and skills development standards leading to duplication and waste of time and money
- Ability to access the right, high quality training before going on sites
- How to understand Licencee and Regulatory requirements and then to develop and demonstrate competence aligned to these requirements
- Understanding of behaviours for working in a nuclear environment



#### **Solutions to Supply Chain Challenges**

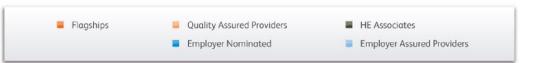
- Development of UK wide High Quality Provider Network
- Establishment of an industry On-Line Learning Portal www.nucleartrainingnetwork.com
- Agreed national training and skills development standards
- Development of a wide range of programmes e.g.
  - Triple Bar Introduction to Nuclear Suite
  - Award for Nuclear Industry Awareness
  - Human Performance Programmes
  - Manufacturing programmes e.g.: RCCM/E, ASME; Managing Quality
- NS<sup>4</sup>P/Skills Assured Skills and Competency Management System

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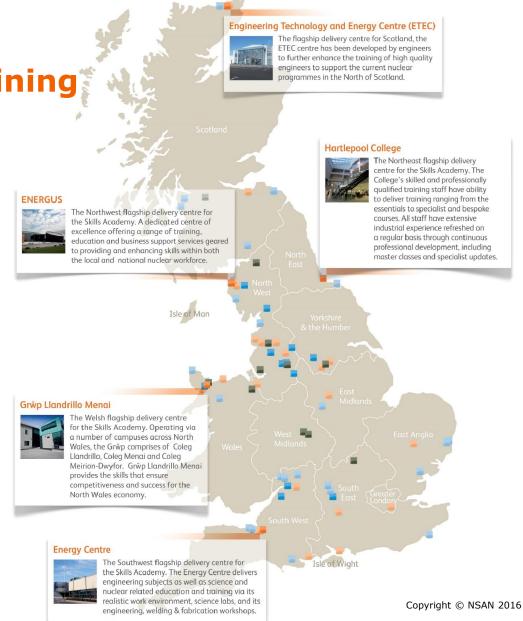
#### **Access to the Right Quality Training**

#### In the Right Locations:

58 providers in NSAN's High Quality Provider Network



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#### **Access to Learning & Training: Nuclear Training Network**





**Nuclear Training Network** 

W. nucleartrainingnetwork.com



elearning networking

NUCLEAR Designed and Developed in Partnership by eOrigen and the National Skills Academy for Nuclear

#### **Featured Courses**



Triple Bar Existing Sites

The Triple Bar Existing Sites (TBES) is three short courses introducing the requirement for



NWP: Completing the Waste Enquiry Form

This module is one of four modules that help organisations complete LLWR waste services forms



Triple Bar Nuclear Security

The Triple Bar Nuclear Security (TBNS) course is designed to provide industry wide eLearning to



The National **Skills** Academy

General Security Awareness for NNL



Material

Learning

Learning Resources

Training Courses



**Forums** 

"An on-line learning environment for nuclear companies to collectively host training and learning materials for sharing across the nuclear industry."



Knowledge Management

The course will take about 30 minutes to complete and will lead you through an explanation of what



NWP: Completing the Waste Consignment Information Form (WCI) - Diversion - Issue 1

This module is one of four modules that help organisations complete LLWR waste services forms



Triple Bar Nuclear New Build Sites 2014 Triple Bar Nuclear New Build Sites 2014



NWP: Completing the WCI - Disposal &/or Supercompaction - Issue 2

Completing the LLWR Waste Consignment Information form (WCI) for disposal &/or supercompaction.



## Skills Assured – A Skills and Competency Management System

- ■In 2014 NSAN launched the NS<sup>4</sup>P Skills and Competency Management System in the UK **S**ustaining **S**kills for a **S**afe and **S**ecure Nuclear Future
- ■In 2016 this has been further developed and made available for the international market as Skills Assured Skills and Competency Management System







**A Skills and Competence Management System** 

Skills

Knowledge

Behaviours

Training

Reporting

Resources



#### Competency Frameworks Developed to date



- Mechanical Engineering & Maintenance
- CE&I Engineering & Maintenance
- Nuclear Safety, Nuclear Security
- Project Management
- Nuclear Waste Management
- Core Knowledge and Behaviours
- Nuclear Process Engineering
- Procurement & Supply





Skills Assured is a skills and competence management system. It can be securely hosted in house or centrally with an external provider.

Once populated, the system will contain a repository of the following employee records, administered by organisations from a simple interface:

- Training
- Records
- Qualifications
- Competence assessment

Available to employees and employees it is an essential tool to manage skills and competence and identify skills shortages.



#### **Key Features**







#### Competence

#### Competence Framework

The system is set up to enable the management of competencies. A master framework can be created to host sector wide and/or organisation specific competencies.

The system enables the creation of competence into three distinct areas, for example - Knowledge, Skills and Behaviours.

Competence development support can be provided as part of system implementation.



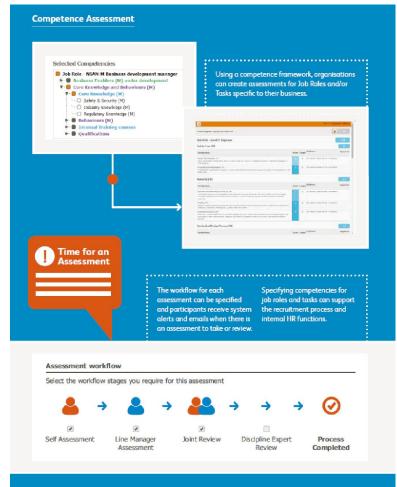






### **Competence Assessment**





Using a competence framework, organisations can create assessments for Job Roles and/or Tasks specific to their business.



#### **Skills Passports**



It can be accessed by the individual and managed for them by nominated personnel

in their organisation.

Skills Passports are updated in real time, providing arganisations with immediate access to accurate records of their skilled individuals.

A Skills Passport also provides the individual with an Evidence Book to store any file uploads supporting a particular qualification or competence statement in one place, which are easily accessible to view and/or download.

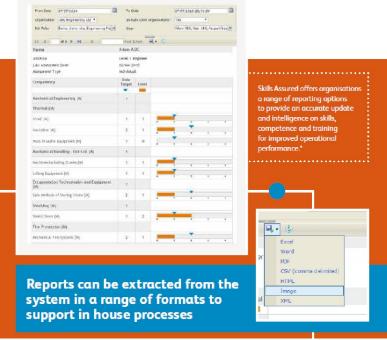


A complete repository of an individual's competence assessments, training records and qualifications.



#### Reporting





The National **Skills** Academy **NUCLEAR** 

Get accurate, up to date information and intelligence on skills, competence and training for improved operational performance.



# The National **Skills** Academy **NUCLEAR**

#### Resource Explorer (optional)



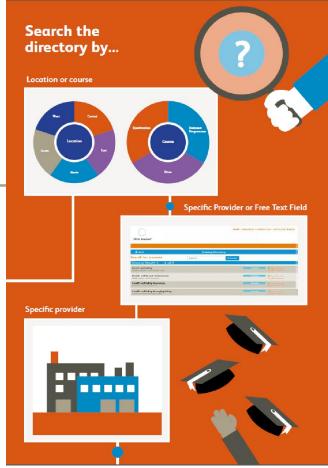


#### **Training Directory** (optional)



Record training providers and provision in your sector and/or your organisational supplier list.

The Training Directory is easy to use and offers a variety of search options and direct links to provider websites and course information.









#### A Skills & Competence Management System

For more information about how Skills Assured can help you manage the skills, competence and capability in your organisation, visit...

skillsassured.co.uk

Oi

skillsassured.global

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Skills Assured is a trademark of the National Skills Academy for Nuclear Ltd, and the competence system has been developed in conjunction with MyKnowledgeMap Ltd and Attins pic.

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#### **Conclusions**



- A strong and effective supply chain is essential for any successful nuclear programme
- There may well be a greater % of supply chain companies supporting nuclear programmes in countries new to nuclear
- Ensuring and demonstrating the competence and capability of the supply chain workforce is essential to maintain nuclear professionalism and ensure future safety and security of the global nuclear programme
- There are programmes and solutions available, such as the Skills Assured System via NSAN, that can help countries develop, maintain and demonstrate a suitably skilled and competent supply chain



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For further details go to:

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