UKOPA

United Kingdom Onshore Pipeline Operators' Association

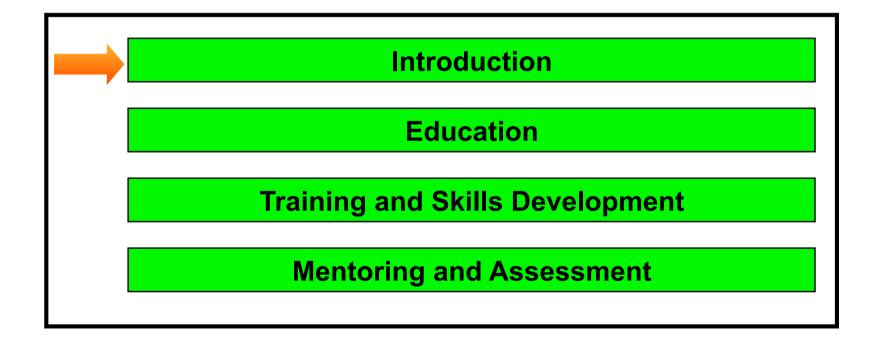


Competent Resources

Robert Lawson - GreyStar

Presentation







Competent Resources

- □Does the sector have a shortage?
 - ☐ Age profile
 - □ Education and Training Provision
 - ■School System
 - Reward Culture

□A resounding yes!





Introduction

- □ Competent Engineering Resources:-
 - □Education,
 - □Training,
 - ■Knowledge Management
 - ☐ 'Mentoring'





Competent Resources

- ■Competent Technician Resources
 - □ Education
 - ■Training
 - □Skills Development
 - ■Assessment



Competence



- Our staff must be 'competent'.
- A definition via UKOPA* is:
 - 'A Competent Person should have practical and theoretical knowledge as well as sufficient experience of the particular machinery, plant or procedure involved to enable them to identify defects or weaknesses, and to assess their importance in relation to strengths and functions of the machinery'

*www.ukopa.co.uk. Taken from Brazier v. Skipton Company (1962) His Lordship Winn J.

Competence

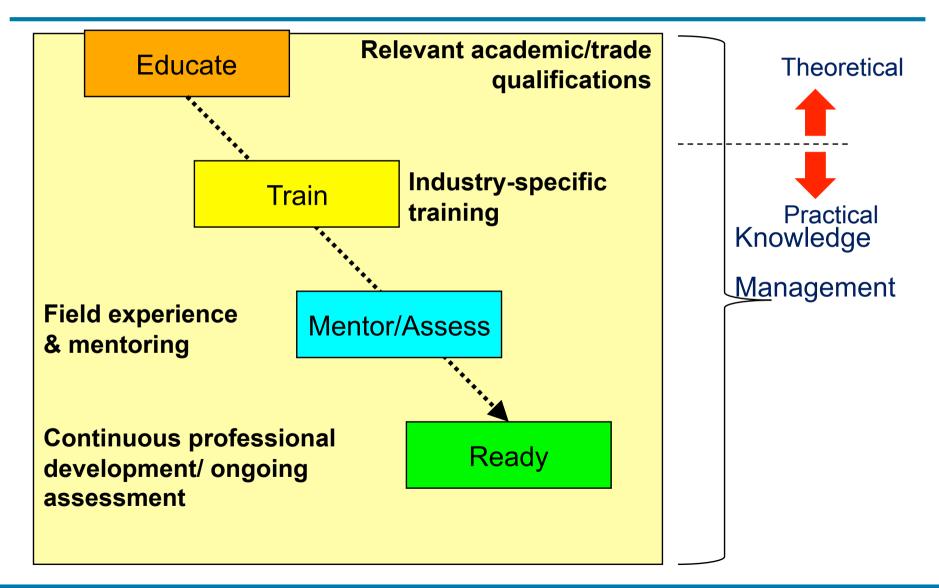


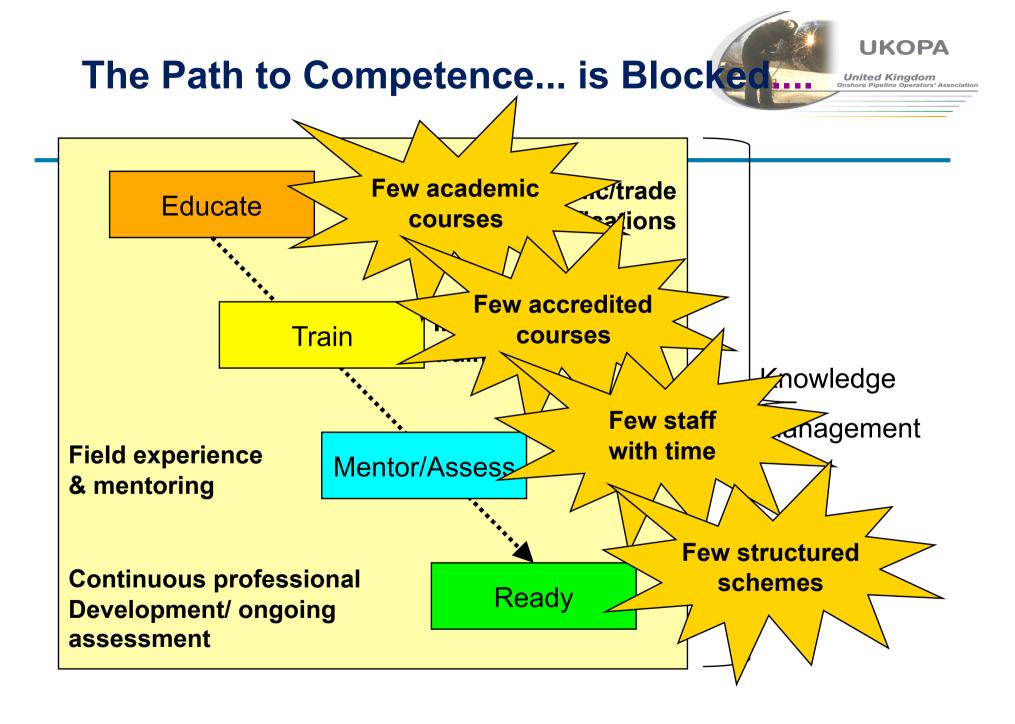
- **■** Requirements for Competence:
 - Knowledge & understanding
 - Application in practice
 - Leadership and management
 - Interpersonal skills



The Path to Competence







The Solution in Penspen and GreyStar?

UKOPA

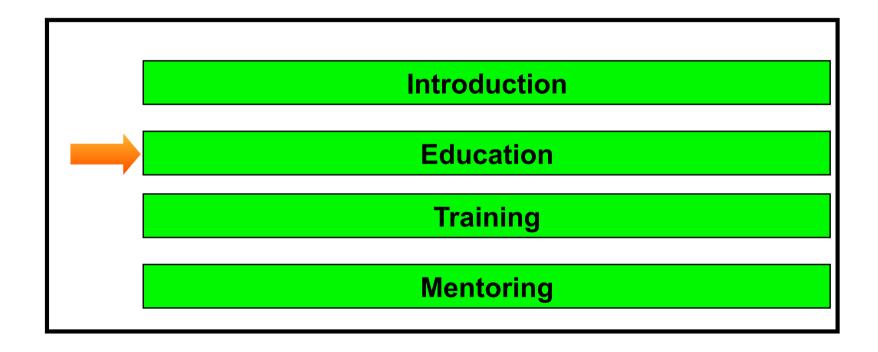
United Kingdom
Onshore Pipeline Operators' Association

- Do it yourself!
 - Roll up your sleeves...
- Penspen and GreyStar have invested heavily in this DIY solution....



Presentation





MSc: Newcastle University



- We need competent pipeline engineers.
- We need to start with the 'theory'.
- In 2001 Penspen and other local companies in North East England collaborated with Newcastle University to produce a Masters program in pipeline engineering.

MSc in Pipeline Engineering





MSc: Newcastle University



- MSc is highly successful.
- 30 to 40 full time students each year.
- Over 40% of lectures taught by external staff from local industry
- Accredited by IMechE, IChemE, IGEM, and RINA
- Huge support from service sector of pipeline industry.
 - Little interest from oil and gas majors.



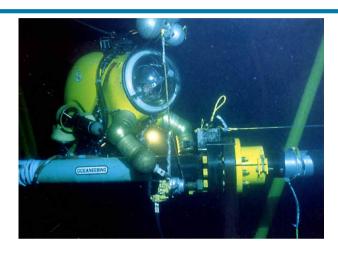


Pipeline Engineering and Academia



New initiatives:

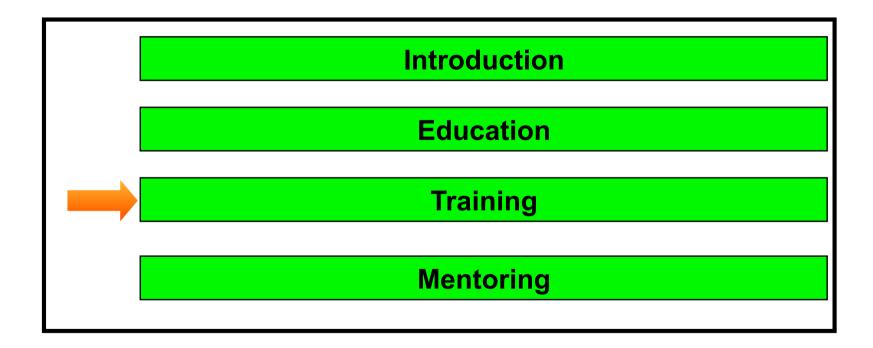
- New MSc in subsea engineering commenced in 2009 at Newcastle University – Penspen helping.
- Penspen is now embarking on a distance learning program with Northumbria University in 'pipeline integrity management'.





Presentation





Training and Penspen

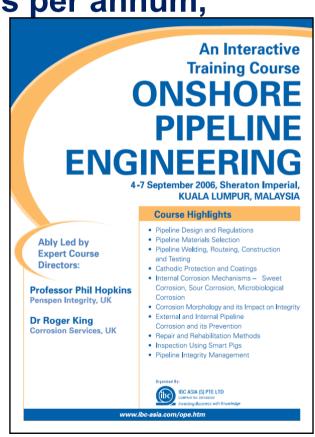


Penspen are leaders in pipeline engineering training

■ About 25 public/in-house courses per annum,

almost all overseas

- >4000 engineers trained
- Huge interest in N and S America
- Little interest in UK
- Purpose:
 - Company value contribute to industry learning
 - Marketing/Business Development
 - Staff Professional Development





Technician Recruitment

□ The obvious target recruitment pool is qualified and competent technicians currently employed within the energy transportation and storage sector. However this pool is small, has its own age profile issues and is known for having a "comfort" culture i.e.

- ☐ high base wage,
- gold standard pensions,
- ☐ limited travel,
- no staying away from home and
- □ limited standby commitments
- ☐ De-skilled by RCM



Skills Training

- □ GreyStar provide a broad range of technical training courses with high hands on content in its training facility in South Wales, clients include:-
 - **□UK Power Sector**
 - **HSE**
 - **□ UK Gas Transporters**
 - Overseas Asset Owner/Operators





GreyStar Courses

- ☐ High Pressure Gas Transmission
- Purge and Venting
- Metering
- Pressure Regulation in Gas Distribution
- Pigging
- ☐ Full range of bespoke courses





Technician Qualifications

- No industry specific NVQ
- □ Little interest from the Sector Skills Council (SSC) Energy Utility Skills (EUS
- ☐ Generic NVQ's difficult to map to job profiles
- NVQ Level 3 in Operations and Maintenance
- Do it yourself solution with local training provider together with WWU





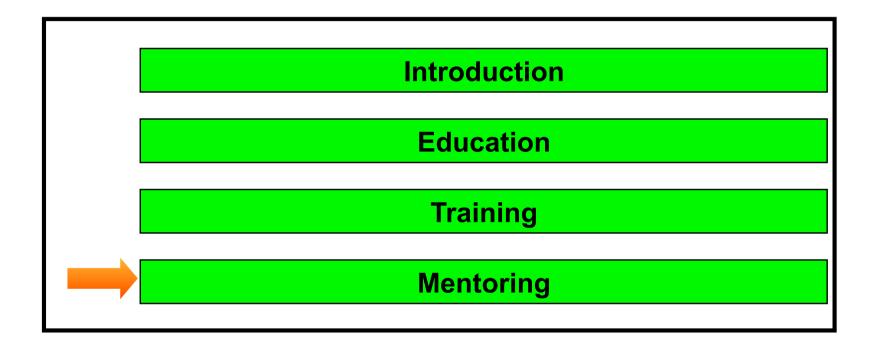






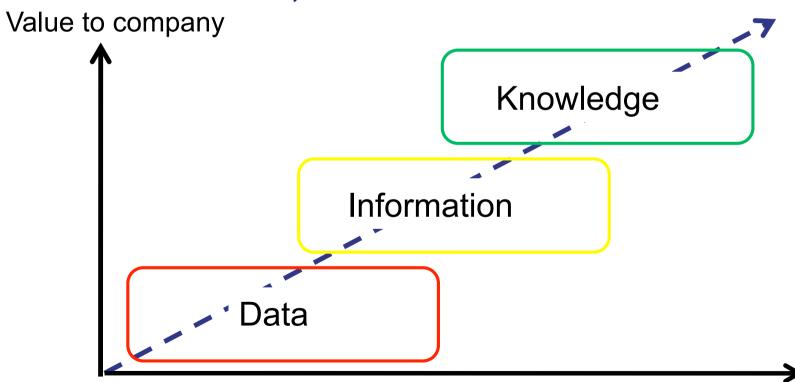
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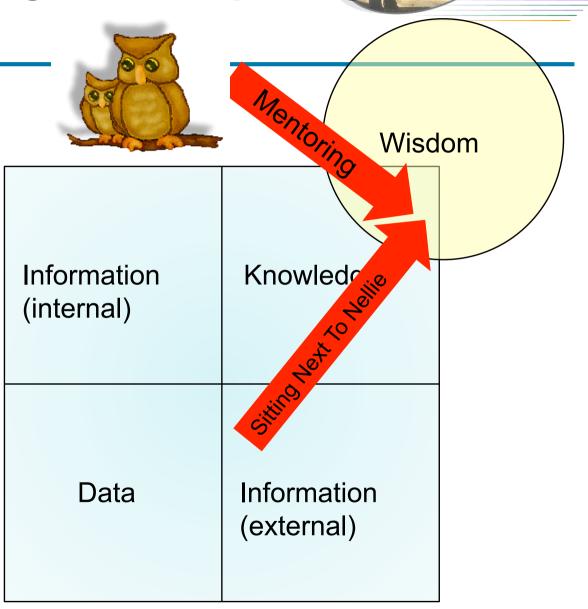
- Knowledge is 'information in action'
 - It includes data, information, skills, experience, lesson learnt, etc.



More human interpretation, awareness, etc...

Knowledge Management: Capturing Wisdom Company Company

- Mentoring is a crucial part of knowledge management;
 - it is the transfer of 'wisdom'.





Competent Resources

- □ There are no easy solutions or externally funded "supply chains"
- □ Requires long term commitment and substantial investment in both time and money
- ■Adversely impacted by commercial environment
- ☐ Requires substantial confidence in your business capability

