

Meeting the needs of SMEs in the North East

Ramside Hall, Durham

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Dr Hussain H Ahmed M.B.E.

BSc. MSc. PhD. PGCE; SPE; IChemE

Teesside University

Petroleum Technology
Programmes

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Our aims for today:

- **Learning from others (North West - SME examples)**
- **The benefits of working with Teesside University in the oil and gas industry– ‘getting qualified’**
- **How we can help in;**
 - **linking you with the international oil and gas market**
 - **providing well experienced engineers to voluntarily work on your site**
 - **providing good education - training opportunities**

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NE SME Industry

‘Getting Qualified’

‘Learning from others experiences’

North West SME Case Study

April 2006

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The Chemical Industry in North West England

- A mixture of declining, mature and emerging manufacturing industries in the chemical, oil & gas, pharmaceutical and biotechnology fields.
- Some national and international company names you may know; ICI, Ineos, Shell, Bayer, Solvay, Unilever, Zeneca, Eli Lilly, Glaxo, EVC, Ciba Geigy.
- In the North-West around 43,000 people are employed in this industrial sector (23%).
- In Halton some 40% are involved in the chemical sector or related industries.

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The Chemical Industry - Current Issues

- **Increasing Global Competition**
causing relocation of manufacturing and ‘downsizing’
(e.g. Glaxo, local loss of 500 jobs, Eli Lilly reduction in manpower)
- **Environmental Pressure**
causing reduction or closure of chemical plants (e.g. ICI with CFCs)
- **Technology Development**
increasing investment in low volume ‘speciality’ rather than high volume ‘commodity’ chemicals (e.g. increase in biotechnology companies)

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'Drivers' for Training in the Chemical Industry

- **Change :** workforce reduction, re-shuffling
new investment
- **External pressure :** action demanded by regulatory bodies
FDA, MCA, EA, HSE,
- **Availability of Funding :** European Community
..... in the UK
Sector Skills Council
Research Fund

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Why bother working with Teesside University?

- ‘I don’t need them’
- ‘They wont do me any good’
- ‘I haven’t got the time’
- ‘I’m already an experienced
- ‘I’m too old’
- ‘I’m not interested’

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Benefits to Individuals

- Allow greater involvement in product issues, achieve better job-satisfaction
- Be more safety conscious, know the hazards and how they may be minimised
- Opportunity for self-development
- Gain nationally recognised qualifications
- Improve job security/ ‘sellability’
- Take control of your personal development

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Benefits of Training

- Fundamental to being considered for a job - hard proof of transferable knowledge
- A means for the employer to 'grade' and gauge potential
- Allows workers to do their jobs with greater understanding – to apply themselves more effectively in the workplace
- Helps people reach their full potential
- Helps maintaining workers interest in their work – higher 'job satisfaction'

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Teesside University deals with.....

Major international oil and gas companies:

PDO	Oman
QP- Qatar Petroleum	Doha
Basra Oil Company	Iraq
Sirte Oil Company	Libya
ADNOC	UAE
Waha Oil Company	Libya
AGoCo Oil Company	Libya

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Types of Training Delivered

- **Formal, academic qualifications (long courses)**
some could be by ‘distance learning’
- **‘Competence Based’ for laboratory staff and plant operators**
assessment based, need to be done in the workplace
- **Specific (short courses)**
can be delivered anywhere
- **‘Customised’ training**
e.g. Good Manufacturing Practice (GMP) – delivered as above

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Some Problems !

- **‘Distance Learning’**
motivation of some students is difficult
- **‘Buy-in’ by Management**
direction and support not always apparent
- **Perception of Worth**
belief of worth of some qualifications can be low

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Working with Teesside University

The following benefits are emphasised:

- Staff will have proven their **job competencies** and ‘**underpinning knowledge**’ relevant to the job.
- **Health and Safety** will be improved by having a better informed workforce.
- Staff are better equipped to engage in **problem solving / process improvement**.
- **Product quality** issues are likely to reduce.
- Improved motivation of the workforce – **improved efficiency**.

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How can we help you?

- Consultancy
- Research
- Links to international Oil & Gas Market
- Work placement
- International engineers

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Related courses

- **MSc in Petroleum Technology**
(Upstream and Downstream)
- **PG Dip in Petroleum Technology**
- **HNC/HND in Petroleum Engineering**
(Open Flexible Learning to be launched soon)
- **HND; B.Eng & M.Eng. in Chemical Engineering**

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Programme Delivery

- ‘Open Learning’ – **self-study** when and where you want. submit **assignments** for tutor feedback.
- Work in groups or as individuals
- Regular progress meetings with your tutor
- When problems arise - what help can you get?

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Question Time



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