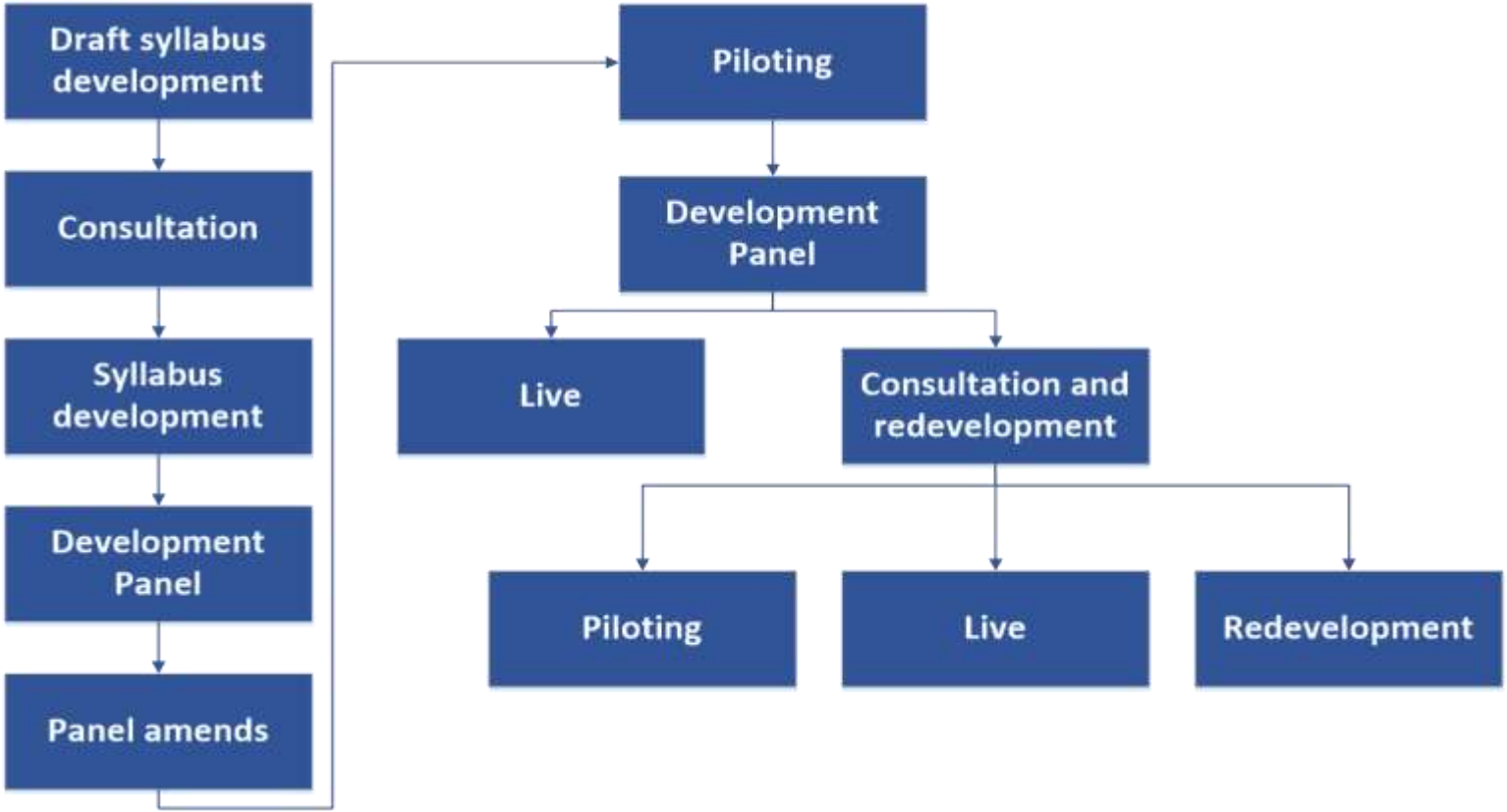
NEBOSH / HSE Certificate in Process Safety Management

Agenda

- Introductions
- Background to the development of the qualification
- Collaboration between HSE and NEBOSH
- Overview of content
- Target audience
- Assessment

Development process



Background to the development

- NEBOSH International Technical Certificate in Oil and Gas Operational Safety
- Designed specifically for those with safety responsibilities in the oil and gas industry
- Key topics covered:
  - SHE in context
  - Hydrocarbon process safety
  - Fire protection & emergency response
  - Logistics
- Notional level 7 in the Scottish Credit and Level Framework (SQCF)

Consultation undertaken during development phase

- Surveying of past and present learners (successful and unsuccessful)
- Extensive face:face consultation with significant employers within the hydrocarbon sector both in the UK and Internationally
- Desire for a qualification to be structured around Process Safety Management became obvious
- Syllabus developed by NEBOSH and HSE and approved for pilot by employer representatives including HSE, PPG, ABP Ports, KGOC, KOC, and Astra Zeneca.

Collaboration between HSE and NEBOSH

- Discussions as to possible joint ventures began with ‘Health and Safety Laboratory’ in early 2015
- Formal Co-operation Agreement signed in November 2015
- Unique collaboration combined the advanced technical ‘high hazard’ expertise of HSE’s Science and Research Centre with NEBOSH’s ability to deliver strong vocational OSH qualifications
- Decision to badge the qualification HSE / NEBOSH given in November 2016
- PSM qualification piloted in May 2017
- Fully launched September 2017.

Overview of content

- Element 1: Process Safety Leadership
  - Meaning of process safety and how it differs from personal safety
  - Role of leadership in process safety management
  - Purpose of organisational learning
  - Management of change
  - Benefits and limitations of worker participation
  - Competency and its importance to process safety.

Overview of content

- Element 2: Management of process risk
  - Importance of establishing a PSM system and its key elements
  - Common risk management techniques used in the process industries
  - Asset management techniques
  - Role purpose and features of a permit-to-work system
  - Key principles of a safe shift handover
  - Principles of selecting, assessing and managing contractors.

Overview of content

- Element 3: Process safety hazard control
  - Purpose and requirements of SOP’s
  - Safe start-up and shut-down of process plant
  - Performance standards for safety critical systems
  - Hazards and controls associated with:
    - Steam and water
    - Electricity / static electricity
    - Bulk storage
  - Dangerous substances and how they can determine process risk.

Overview of content

- Element 4: Fire and explosion protection
  - Fire and explosion hazards relating to process industries
  - Control measures to minimise the effects of fire and explosion
  - Dusts
  - Emergency planning and implementation.

Target audience

- People from all around the world who work in process industries such as oil and gas, chemicals, plastics and pharmaceuticals
- Ideal for managers, safety representatives and health and safety advisors working within the process industries
- It is not designed for chemical and process safety engineers experienced in the specification, design and maintenance of process plant
- Students should already have an underpinning knowledge of health and safety issues.

Assessment

- Students are assessed by a 90 minute, 40 question multiple choice examination
- Takes place on a date selected by a learners course provider
- Standard of English equivalent to an International English Language Testing System (IELTS) score of 6.0 or higher in IELTS tests.

Questions?