

Capacity building for chemical accident prevention and preparedness

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Charles Cowley

Short bio Charles Cowley

- **Retired from Shell** in 2010 after 27 years:
 - Engineering: major projects; Chief Engineer, Shell Morocco 95 - 98
 - HSSE: training; audit; safety culture; global HSSE simplification program)
- **Independent Consultant** - Risk Assessment, Training, Culture, Auditing
Clients: Shell; Risktec/OMV; OPA; Nabors, UNEP; others...

Recent work:

- Led UNEP/OCHA Risk Assessment Mission to Madagascar
- Audited offshore & onshore: Tunisia, Turkey, Brunei, Netherlands
- Delivered training in Nigeria, Romania, Tunisia, Pakistan, Kurdistan
- **CCPS Staff Consultant** - managing projects; currently:
 - Guidelines for Facility Layout & Siting, 2nd Ed;
 - Bow Tie Risk Management
- **Doctoral Researcher, Cranfield University, UK, School of Management**
Subject: Leadership for Higher Reliability Organizing and Safety

Industry perspective on capacity-building

- **Application of UNEP Flexible Framework:**
 - **Identify key stakeholders, establish contact, build network ...etc**
- **Identify pockets of potential competence: e.g.**
 - **Universities**
 - **Industry...**
- **Identify resources to provide training, mentoring and coaching**

Industry perspective on capacity-building

Global companies like good regulation (level playing field)

How can industry become involved?

Approach through:

- **Global companies**
- **European Industry associations (CEFIC; EPCA; EPSC...)**
- **Global Industry associations (CCPS; ICCA; IOGP; IADC...)**
- **Professional institutions (IChemE...)**

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- **Identify pockets of potential competence: e.g.**
 - **Universities**
 - **Industry...**
- **Identify resources to provide training, mentoring and coaching**
 - **Industry engineers and managers**
 - **University faculty**
 - **Expert consultants**