

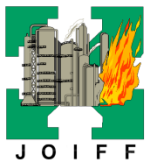
JOIFF

Competent Emergency Response –

Essential for Business Continuity and Credibility

*5th INTERNATIONAL CONFERENCE FOR FIRE BRIGADES
IN THE OIL & CHEMICAL INDUSTRY*

*17-18 November 2009
Hungary*



Alec Feldman BBS MA FIFireE

- **CEO Fulcrum Consultants Ireland**
 - *Approved Assessment Centre for U.K. National Vocational Qualifications*
 - *Facilitator of Training for Emergency Responders Worldwide*
 - *International Consultancy in*
 - Personal Protective Equipment*
 - Competency Based Training*
 - Aviation Emergency Planning*
 - *Secretariat of JOIFF - The Organisation for Emergency Services Management*



JOIFF - The Organisation for Emergency Services Management

JOIFF is:

Organisations which are **High Hazard Industries** and/or have **nominated personnel** as **Emergency Responders** who provide cover to **Industrial and/or Commercial Organisations**

JOIFF's Aim:

To improve Standards of **Safety** and of the **Working Environment** in those sectors in which its Members operate



JOIFF - The Organisation for Emergency Services Management

As at November 2009

JOIFF Membership is

122 Organisations that are Full Members

and

48 Organisations that are Corporate Members

in 32 Countries



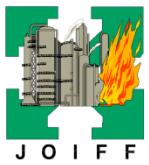
JOIFF - The Organisation for Emergency Services Management

- **Established 1990 in UK Petrochemical Industry to share information**
- **Late 1990s Fulcrum started to work with JOIFF**
 - Together identified**
 - **difficulties in the training of Industrial Emergency Responders**
 - **no common training standards for Industrial ERTs**
 - **no universally recognised system of accreditation of ERT training**
- **In 1999, the JOIFF Training Standards Committee was established**



Training Emergency Responders

- **JOIFF Training Standards Committee is**
 - **Committee of experienced/highly qualified peers within Industry**
 - **drawn from the JOIFF Membership**
- **JOIFF Training Standards Committee**
 - **developed courses *suitable for Industrial* Emergency Response Teams (ERTs)**
 - **outcome - Certificates of Competence**
 - **established procedures to ensure universally acceptable minimum Standards of Training**



Training Emergency Responders

JOIFF believes that

The purpose of **Training** is that it should result in

- providing the Learner with the knowledge, skills and understanding to enable him/her to carry out his/her duties

COMPETENTLY

on an ongoing basis



COMPETENCE

If you think that you can do it

that is

CONFIDENCE

If you can do it well on an ongoing basis

that is

COMPETENCE

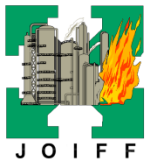


Training *Your* Emergency Responders

- Are the students assessed as being competent ?
- Does each successful student receive a certificate on completion ??
- Is it a certificate of

ATTENDANCE ??

COMPETENCE ??



INDUSTRIAL EMERGENCY RESPONSE

- **Reluctance of Industry Management to provide the appropriate Emergency Response capability because:**

It costs money

- to equip
- to train
- to maintain competencies
- to maintain resources
- to respond



INDUSTRIAL EMERGENCY RESPONSE

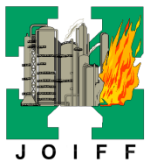
- The attitude is

- **IT WILL NEVER HAPPEN TO US**



INDUSTRIAL EMERGENCY RESPONSE

- The Risk Assessment for pre-determined attendance tends to be based on *“Best Case”* scenario –
 - If we have an Incident, the local Municipal Fire Brigade will be here quickly to deal with it !!



INDUSTRIAL EMERGENCY RESPONSE

**The Municipal Brigade may be attending a major incident
when they get your call**



INDUSTRIAL EMERGENCY RESPONSE

If the local Municipal Fire Brigade does attend,

will they have

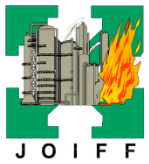
- » the equipment;**
- » the competent personnel ;**
- » the knowledge**
- » the training**

to effectively and efficiently deal with the Incident ?

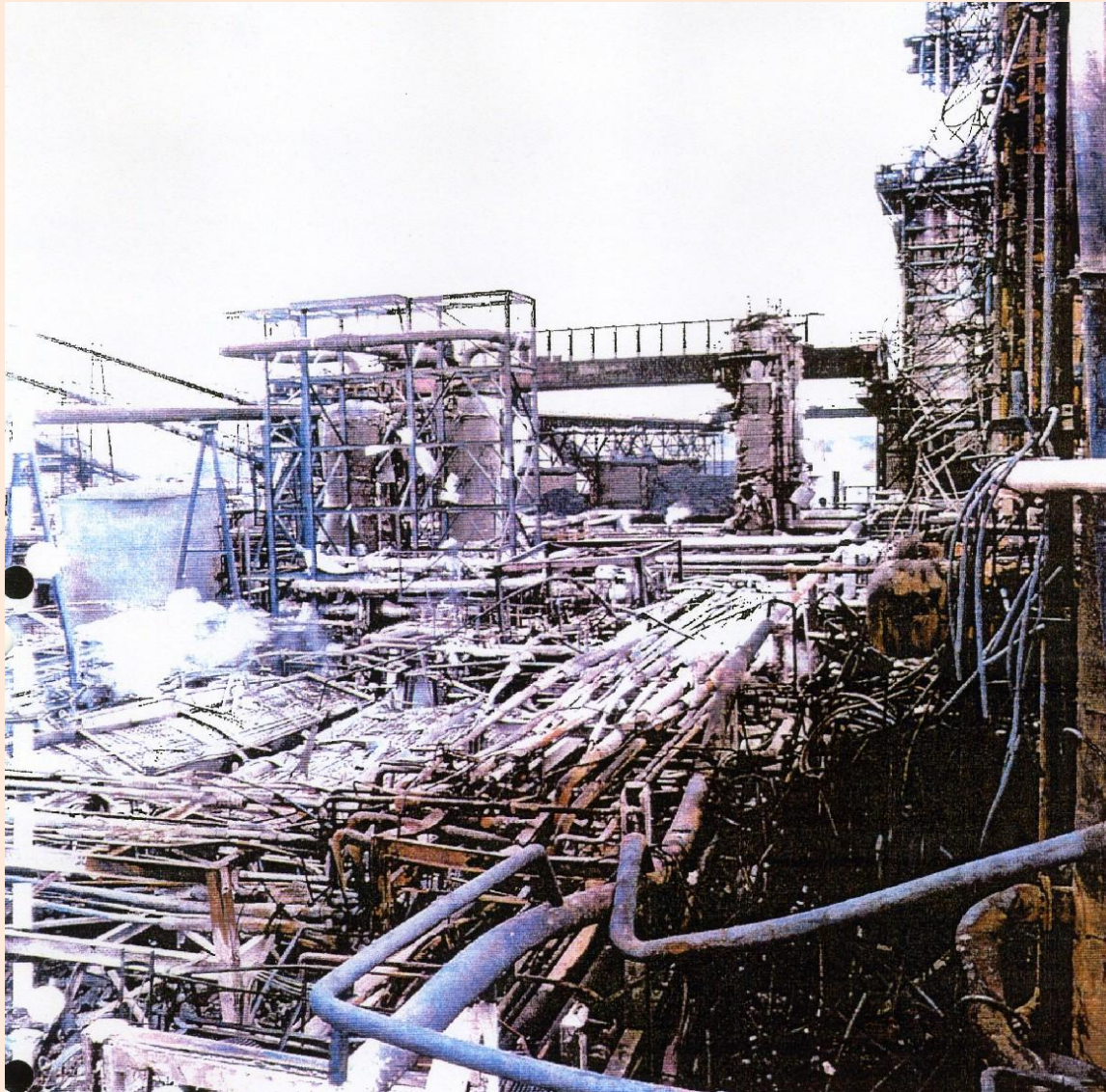


INDUSTRIAL EMERGENCY RESPONSE

If you think that ***PREVENTION***
is expensive try an
ACCIDENT



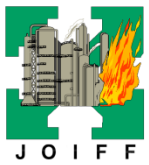
IT DOES HAPPEN.....!!!



If you think that ***PREVENTION*** is expensive
try an ***ACCIDENT***

All these incidents could have been prevented

- | | | | |
|---------------|------|-------------------|------|
| • Flixborough | 1974 | • Allied Colloids | 1992 |
| • Seveso | 1976 | • Enschede | 2000 |
| • Bhopal | 1984 | • Toulouse | 2001 |
| • Chernobyl | 1986 | • BP Texas City | 2005 |
| • Sandoz | 1986 | • Buncefield | 2005 |



INDUSTRIAL EMERGENCY RESPONSE

**The Buncefield Incident in the UK (December 2005)
has so far cost**

the Lead Company

in excess of £4 billion pounds Sterling

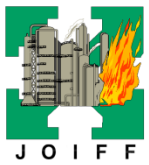


INDUSTRIAL EMERGENCY RESPONSE

> Sterling £ 4,000,000,000



That's a lot of money.....!!!!



Who is Held Responsible ?

**ACCIDENTS DO NOT HAPPEN
– THEY ARE CAUSED.....!!!**

- Tragedies listed were all caused by accidents due to human error.
- Organisations in the EU are *Corporately responsible* for their failures
- Managers *will* be held *individually liable* for their incompetence



INDUSTRIAL EMERGENCY RESPONSE

What should be planned for in the event of an accident / incident is

Rapid intervention by

Competent on-site Emergency Responders

with the correct

- equipment,
- knowledge,
- training and
- experience

to deal with the risks on their site



INDUSTRIAL EMERGENCY RESPONSE

Competent Emergency Response

will not prevent Accidents / Incidents,

but it will ensure that their impact on an

Organisation, a Community, the Environment
and

Business Continuity

is very much reduced



COMPETENCE

COMPETENCE in

INDUSTRIAL EMERGENCY RESPONSE

is

- » **knowledge of the risk**
- » **having the right tools for the job**
- » **being protected by industrial specialists and equipment**



Competent Emergency Response

Is not just responding to an Incident.

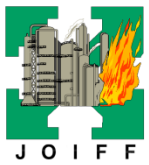
It is:

- **Planning:** Evaluate and minimise risk
Anticipate potential problems
Monitor control systems
Train for preparedness
- **Responding:** With the pre-planned manpower and resources
- **Controlling:** Minimise damage to persons, property, environment
Minimise disruption to the Organisation's business
Ensure business continuity



COMPETENCE

- Reduces the *possibility of failure*
- Ensures that when failure takes place, it can be *effectively and efficiently dealt with*
- Includes a combination of *knowledge, skills and understanding of each job role*
- Builds in *measurement of ability to do a job*
- To be relevant, must be demonstrated *on a continual basis*



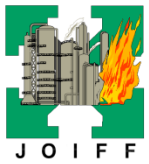
JOIFF Accredited Training

- **High Hazard Industry is universal therefore**
 - Industrial ERT competence must be measured by universally acceptable standards of competence and verification
- **JOIFF Accreditation**
 - is the only universal standard of competence and verification for Industrial ERTs
- **JOIFF Certification**
 - each successful student is issued with a
JOIFF Certificate of Competence



JOIFF Accredited Training

- **Keystone of JOIFF is its *Competency Based Personal Development Programme* for Emergency Responders**
- **Is developed to allow Emergency Responders to become *competent* in dealing with *the risks with which they work***
- **Measures competence against a job role**
- **Much of the Training is Site Specific – *Learning by Doing***
 - **to allow**
 - *demonstration of competence and*
 - *continuous maintenance of competence*



JOIFF Steps for Professional Development

- **Entry level:** **Educational Qualifications**
 Physical ability
 Firefighter fitness
- **For all personnel:** **Approved Prior Learning**
 JOIFF Diploma (Key Skills)
 JOIFF Advanced Certificate
 National Occupational Standards
- **Higher level:** **Foundation Degree**



JOIFF Career Training Path for Emergency Responders in Industry

NEW ENTRANT

YEARS 1 and 2

EXPERIENCED PERSONNEL

YEAR 3 and ONWARDS

QUALIFICATIONS and CONTINUOUS PROFESSIONAL DEVELOPMENT

ON-GOING CERTIFICATION of MAINTENANCE of CURRENCY of COMPETENCE

Regular Practical Firefighting / Breathing Apparatus / Relevant Specialist Training

Previous
Training /
Experience /
APL

JOIFF
Accredited
Firefighter
Course

JOIFF
Diploma
“Responding
to
Emergencies”

On Site /
Off Site
Programme

JOIFF Accredited
B.A. and Practical
Firefighting
Refresher Courses

Firefighter
Technician
Programme

JOIFF
BTEC Award
Drive and
Manoeuvre Fire
Vehicles

JOIFF
Advanced
Firefighter
Technician
Programme

JOIFF Accredited
Team Leader
Course

JOIFF F/ BTEC
Advanced
Level 3 Award
Responding
to
Emergencies

Assessor and
Verifier
NVQ Levels 3
and 4

JOIFF
Operations
in the
Community
UK NVQ
Level 3

JOIFF
Watch
Management
UK NVQ
Level 3

JOIFF
Control
Operations
UK NVQ
Level 3

Foundation
Degree in Fire
and Rescue
Service
Management



JOIFF Diploma

- **Computer Based Training Programme covering the **Key Skills** for Emergency Responders**

It comprises

- » **24 Units**
- » **in excess of 100 elements**
- » **in excess of 700 competences**

- **Locally assessed / Remotely externally verified**



JOIFF Diploma (continued)

UNIT

COMPETENCE

1. Site topography
2. Operating safely in the work place
3. Science of Fire
4. Fire Service Hydraulics
5. Firefighting media
6. Portable firefighting equipment
7. Firefighting Operations
8. Hydrant/Hose Drills

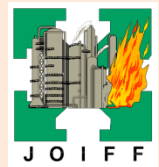


JOIFF Diploma (continued)

UNIT

COMPETENCE

- 9. Pump Drills
- 10. Ladder Drills
- 11. Pump and Ladder Drills
- 12. Foam Drills
- 13. Knots, ropes and lines
- 14. SCBA
- 15. First Aid
- 16. Communication Procedures



JOIFF Diploma (continued)

UNIT

COMPETENCE

- 17. Save and preserve endangered life
- 18. Protect the environment from the
effects of hazardous materials
- 19. Elements of Building Construction
- 20. Fixed Alarm, Detection and Suppression Systems
- 21. Fire Safety
- 22. Ventilation, Salvage and Overhaul Operations
- 23. Driving, manoeuvring and re-deploying
Fire Service vehicles
- 24. High Volume pumps and hoses



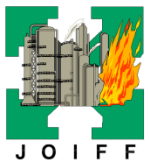
JOIFF Diploma (continued)

Primarily on-site training and assessment

**Supplemented by robust external training
in a JOIFF accredited Training Establishment**

verified externally

Outcome: JOIFF Diploma “Responding to Emergencies”



JOIFF Level 3 BTEC Award “Responding to Emergencies”

MANDATORY UNITS

- **Unit FF3 Save and preserve endangered life**
 - FF3.1 Conduct a search to locate life involved in incidents
 - FF3.2 Rescue life involved in incidents
 - FF3.3 Provide treatment to casualties
 - FF3.4 Support people involved in rescue operations
- **Unit FF4 Resolve operational incidents**
 - FF4.1 Control and extinguish fires
 - FF4.2 Resolve incidents other than those involving fire or hazardous materials
 - FF4.3 Support people involved in an operational incident
- **Unit FF5 Protect the environment from the effects of hazardous materials**
 - FF5.1 Mitigate damage to the environment from hazardous materials
 - FF5.2 Decontaminate people and property affected by hazardous materials
 - FF5.3 Support people involved in hazardous materials incidents



JOIFF Level 3 BTEC Award “Responding to Emergencies”

OPTIONAL UNITS

- **Unit FF9 Drive, manoeuvre and re-deploy fire service vehicles**
FF9.1 Drive vehicles to incidents
FF9.2 Manoeuvre, site and re-deploy vehicles
- **Unit CO1 Maintain information on fire and rescue operational resources (2008 01)**
CO1 Maintain information on fire and rescue operational resources
- **Unit CO8 Maintain and use Databases**
CO8.1 Retrieve and enter data to update database
CO8.2 Extract the required information
CO8.3 Output specified information to the required destination



JOIFF Accredited Training

The most effective form of Competency Based Training

is a mixture of

On Site and Off Site Training

building on core content to address site-specific issues



JOIFF accredited Training

Off-site training is accredited

JOIFF Accredited Training Establishments
are
Centres of Excellence

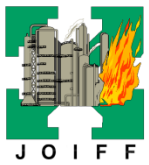
Accreditation covers

- * Facilities**
- * Instructors**
- * Course content**



JOIFF accredited Training (continued)

- **Training facilities**
 - Must be regularly risk assessed and safe
 - Must have resources / facilities necessary to allow the Training to be carried out
- **Instructors / Assessors**
 - Must be professional, knowledgeable and experienced in their field to maintain the Standard
 - Require on-going verification and review
- **Course content**
 - Is developed from a background of competent knowledge
 - Must be consistent and relevant
 - Requires on-going assessment and verification and review



JOIFF accredited Training (continued)

Current JOIFF Accredited Training Establishments

- **Malaysia** **CEFS Response, Kerith**
- **Netherlands** **Falck Risc, Rotterdam**
International Fire and Safety Training
- **Russia** **Gazprom Gazobezopasnost Astrakhan Well Control Unit**
- **South Africa** **Sasol Secunda Shared Services**
- **U.S.A.** **Texas A and M, College Station**
- **United Kingdom:**
RGIT Montrose (now Petrofac), Scotland
Serco IFTC, Teesside
Sembcorp Utilities UK, Wilton
Total Lindsey Refinery, Humberside
Washington Hall, Lancashire



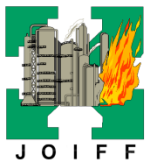
JOIFF accredited Training (continued)

Most recent JOIFF Accredited Training Establishment

- **Hungary**

FER Tűzoltóság és Szolgáltató Kft.

Százhalombatta



Concluding Remarks

- **Industry is necessary in Society for jobs, growth, development**
- **All Industrial accidents / incidents are caused by Industry**
- **The people who know most about dealing with Industrial accidents / incidents work within the INDUSTRY**
- **Unless procedures are developed, implemented and maintained to ensure effective Emergency Response when needed**
 - **in the event of an Accident / Incident,**
 - * **more damage than necessary will be caused**
 - * **efficient Business Continuity will be affected**



Concluding Remarks (continued)

- Industry **must** accept responsibility for their own personnel, premises and processes
 - *in many Countries this is a legal requirement*
- Historically, when a serious Industrial accident / incident occurs
 - *the Organisation concerned is sold or closed down*



Concluding Remarks (continued)

- **To be effective,
Industrial Emergency Response capability
must be verified on an on-going basis**
- **To be effectively verified,
Industrial Emergency Response capability
must be to acceptable International Standards**
- **JOIFF is setting standards of Best Industry Practice which aims to
ensure Business Continuity
through
development of**

Competent and Professional Emergency Response



**JOIFF -
The Organisation for Emergency Services Management**

Visit the JOIFF website at

www.joiff.com

If your Organisation is not already a Member

we invite you to apply

for

Membership



*What effect would an Incident such as this have on
Business Continuity and Credibility???*



You can prevent it happening



JOIFF

**Competent Emergency Response –
Essential for Business Continuity and Credibility**

THANK YOU FOR YOUR ATTENTION

