



October 2015



Some Industrial incidents that took place during the third quarter of 2015

JOIFF Shared Learning

Shared Learning is one of the 3 key pillars of JOIFF. Details of the industrial incidents listed on this page which are only a small number of the actual incidents reported during the past 3 months have been circulated through the JOIFF Shared Learning network to the nominees of all JOIFF member organisations.

Message from the JOIFF Chairman



Dear JOIFF membership and guests,

In the Industrial Hazard Management discipline, the success of front line responders is a major, if not the single most important focus of the efforts of JOIFF. Assessment, Planning, Preparation, Training, Equipment, Infrastructure, Organization, Leadership, and Will must all come together in a coordinated

Continued overleaf...



🇺🇸 USA - 7 people injured after explosion, fire at petroleum centre in Nebraska 🇰🇷 South Korea – Ulsan storage tank explodes, 6 dead 🇳🇮 Nigeria - Pipeline Explosion Kills 12 Persons In Bayelsa 🇫🇷 France - Firefighters battle 2 fires at petrochemical plant 🇨🇳 China - Major Incident Involving Storage Spheres, Rizhao in Shandong

🇳🇱 Netherlands – Chemelot Geleen Maphtha Tank Sunken Roof, Foam Applied 🇨🇳 China - 9 Fire-fighters confirmed dead others missing in massive explosion in hazmat warehouse in Tianjin 🇬🇧 UK - Tanker fire on motorway causes massive disruption 🇨🇪 Czech Republic - Unipetrol Earnings May Suffer as Fire Hits Key



🇰🇼 Kuwait - Oil refinery shut down and evacuated following fire 🇸🇬 Singapore - Three critically injured after Pulau Bukom fire 🇲🇽 Mexico - Pemex oil platform fire kills at least four in the Gulf

🇲🇽 Mexico, 302 workers evacuated 🇺🇸 – Tanker fire may be connected to modifications to fuel storage system 🇺🇸 – BNSF Ethanol train derailed, catches fire in South Dakota 🇺🇸





and integrated “dance” to allow for success at the point of impact, where the front line responder meets the problem fact to face.

Effective emergency response can save countless lives and livelihoods, help protect the environment, and save many billions in monetary costs. Ineffective response has the exact opposite effect. As leaders in the Industrial Hazard Management community, we owe our front line responders our very best efforts, in order to help provide the best chance of success. Failure on our part to deliver can have tragic consequences for the responders, the businesses and jobs that they are there to protect and society as a whole. Success on our part can make all the difference in the world.

This may sound overly dramatic until you review all the incidents and responses that occur in industry continually and measure the costs. Only a small number of these incidents, - which are taken from the JOIFF Shared Learning circulation - are published on the front page of The Catalyst each quarterly edition.

JOIFF recognizes that the Industrial Response industry is typically 20-30 years behind its own technology and lessons learned. In my travels globally, I see it all the time. The range of technologies, techniques, organizational constructs, philosophies, equipment, engineering etc. that are applied across our industry demonstrate this fact with undeniable clarity. Some of this is unavoidable, as it simply takes that long for information to be verified and then disseminated into an industry that is very diverse and spread across a global landscape. There are also a range of challenges and obstacles that Response professionals face, including budget constraints, organizational limitations, legal requirements, available support and expertise etc.

However, some of it is VERY avoidable, and there are things we can do within our constraints that allow us to continue to improve and innovate. I see this all the time also ...dedicated professionals who find ways to get things done, and solve problems. That is really part of what JOIFF is all about.

It is easy to get pulled into mediocrity or worse, by the relentless pressures of limited time, limited resources, and seemingly endless challenges to developing and maintaining our readiness for response. Since the stakes are so high, we must be positively relentless in our pursuit of excellence in our respective Industrial Hazard Management disciplines and relentlessly positive that we can make a difference. We must maintain an attitude of relentless commitment to giving our front line responders the best resources and together we can work to insure that we are not 30 years behind the current depth of information and lessons learned.

I look forward to our continued learning.
With Highest Regards,

Randal S. Fletcher (Randy)

JOIFF Chairman

About JOIFF

Membership of JOIFF, the International Organisation for Industrial Hazard Management is open to any Organisation which is a high hazard industry and/or has nominated personnel as emergency responders/hazard management team members who provide cover to industrial/commercial organisations. Organisations which do not fully comply with these requirements are welcome to apply for Corporate Membership of JOIFF.

JOIFF's purpose is to prevent and/or mitigate hazardous incidents in Industry through its 3 pillars:

- Shared Learning – improving risk awareness amongst our members
- Technical Advisory Group – raising quality of safety standards in the working environment of High Hazard Industry and
- Accredited Training – enhancing operational preparedness in emergency response and crisis management.

JOIFF welcomes enquiries for Membership - contact the JOIFF Secretariat.

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About The Catalyst

The Catalyst is the official newsletter of JOIFF, the International Organisation for Industrial Hazard Management and is published quarterly - in January, April, July and October each year. Our policy is to bring you high quality articles on relevant technical issues and current and new developments and other happenings in the area of Emergency Services Management. In addition to The Catalyst, information relevant to Emergency Services Management is posted on the JOIFF website.

Readers are encouraged to circulate The Catalyst amongst their colleagues and interested parties. The Editors welcome any comments, you can email comments to fulcrum.consult@iol.ie

Disclaimer: The views and opinions expressed in The Catalyst are not necessarily the views of JOIFF or of its Secretariat, Fulcrum Consultants, neither of which are in any way responsible or legally liable for any statements, reports or technical anomalies



JOIFF Accredited Course on Tank and Bund Fires was a Success!

A Report received from JOIFF accredited Training Provider H2K, The Netherlands:

Earlier this year H2K and Marsh Risk Consulting joined forces to develop a course to share our long-term experience with performance based industrial fire safety with the various stakeholders in this line of industry. This 3 day Course, entitled Industrial Safety and Emergency Response was submitted for JOIFF accreditation which was awarded and the first course took place at the beginning of September and was well received by all 18 participants.

At the end of the course all participants acknowledged that just following the codes and standards may not result in the required level of fire safety. This course addresses fire scenarios for the various vertical aboveground tank types and bund fires, cooling of constructions and equipment and inspection, testing and maintenance of industrial fire safety installations and equipment. One day was fully dedicated to all the aspects of the use of fire fighting foam.

Attendees did not just stick to theory, but also performed some small scale tests to show why the expansion ratio of foam is relevant, and why and how to apply alcohol resistant foam to water soluble liquids. At the test site participants viewed larger volume response equipment for 90 meter diameter tank fires and large bund fires. The aim of the course was to share our knowledge and (practical) experience to enable attendees to switch from or combine the prescriptive based approach to fire safety into a performance based approach so that actual risks are identified and that informed based decisions can be made even if changes to the site, process and storage have to be implemented.

We also showed how the performance based approach can be used for new developments which have not (yet) been covered by codes and/or standards.

The Instructors on the course were Jeanne van Buren, senior consultant with Marsh Risk Consulting, based in Rotterdam and Peter de Roos, Instructor/ Advisor Industrial Safety with H2K, The Netherlands. Jeanne consults on specific risks related to the power, energy and (petro-) chemical industry sectors, including identifying potential hazards, evaluating these hazards and quantifying the associated risks and counselling on risk mitigation and control measures. She reviews and develops ITM processes for clients and provides ITM training courses in Dutch and English. Peter develops emergency response training for the (petro-)chemical industry and consults on fire safety, emergency organisations and response. He is engaged with product development, the most recently produced product being the Industrial Safety and Emergency Response Training Course.

The same three-day course will be available on 1 December, this year. We already have several persons who registered for this course, but there are still sufficient place available. Registration can be done via: <http://h2k.nl/en/trainingen-bij-scholing-en/industriële-training/ind-safety-emergency-response-training>



The 18 participants from The Netherlands who were presented with their JOIFF Accredited Certificates following the recent Industrial Safety and Emergency Response Training Course

New Members

During April, May and June 2015, the JOIFF Board of Directors were pleased to welcome the following new member:

Full Member:

Phillips 66 Company, Houston, Texas represented by Stephen Pepper, Director, Crisis Management and Denzil Traylor, Senior Emergency Response Consultant. Phillips 66 is a diversified manufacturing and logistics company. With a portfolio of midstream, chemicals, refining, marketing and specialities business, the company

processes, transports, stores, and markets fuels and products globally. The Houston headquarters organization has a team of professional emergency responders that can be mobilized to assist any business unit around the world. The Houston response organization also provides emergency response training and skills evaluation to more than 500 company responders each year.

We look forward to the involvement of our new and existing Members in the continuing development of JOIFF.



Aberfan to Aberdaugleddau

by Eddie Davies

Nearly five years into my retirement and fast approaching my 70th birthday I have had plenty of time to cogitate and remember my working life as a 'fire fighter'. The term 'fire fighter' although not politically correct in this day and age should be dropped from our vocabulary but for the purpose of this brief resume and because I think I have earned it I still class myself as a 'fire fighter' and always will.



I joined the local authority fire service in the September of 1966 in what was then Glamorgan Fire Service. My first station being B9 in Port Talbot. I was very proud to be a fireman and even prouder to wear the 'undress' uniform to and from work (that's me in the image above, third from the left). 1966 was indeed a special year for me in many ways but especially because at last I felt I had found my vocation in life.

As a rookie for the first couple of weeks I had to ride the second appliance, this being a Dennis Pump Escape Ladder. On a Wednesday morning on the 21st October, less than a month into the job I was to witness and play a small part in one of the biggest disasters to hit Wales. A mountain of coal slag that had been undermined with rain water from a swollen stream moved and completely covered a primary school in the mining village of Aberfan, killing 116 Children and 28 Adults. On that day I was



working a day shift and all day via TV and radio we listened and watched as the disaster unfolded. All felt helpless but eager if possible to help. A senior officer called the station later that afternoon requesting volunteers to attend the disaster area after work, and to a man we all agreed.

After working a full 9 hour shift I and the rest of our crew travelled to Aberfan. On arrival we were soon assisting in the recovery of the bodies. Courageously the rescue and recovery was being undertaken by the miners from the local colliery who had been toiling this task all day and into the night. Eventually I was assigned to report to the local chapel that was being utilised as a morgue. How ironic that nearly 50 years later that same chapel was involved in an arson attack bringing dormant memories flooding back.



Having spent six years as a 'fire fighter' in the local authority and attaining the rank of a junior officer I made a career change moving into industry and became an Industrial Fireman with BP Chemicals at Baglan Bay Port Talbot again making my way through the ranks and finally ending up as the Chemical Works Fire Officer. A multi million expansion at the site brought with it increasing fire and toxic hazards and many major incidents ensued during my 14 years at the site.



Certainly 1973 was not a good year for Baglan Bay. We had a series of major setbacks which in turn had a disastrous effect on the factory's economics. Firstly, the fire on No 2 Ethylene Plant in February meant weeks of complete shutdown and months at subsequently reduced rates, followed by a further protracted shutdown to replace the 'Cold Box'. Then the serious operating troubles on the Styrene, Chlorine and Vinyl Chloride Plants had major effects on output from these key units.

After 14 years I again had itchy feet and applied for the vacancy and successfully got the job of Fire and Security Officer at the Amoco refinery in Milford Haven a vacancy that had been made available following the infamous tank 11 fire at the refinery.



Infamous Amoco Tank 11 fire

It was while at this refinery I found that there were numerous problems and obstacles associated with my position (see pictures above and over) and I sought answers and help from my peers at other refineries and related establishments. I found that although my fellow fire officers within the industry were more than willing to share information on any and all matter relating to our common purpose there seemed to be very much a closed shop as many companies did not wish to do their "dirty washing" in public.



BFSA (British Fire Services Association) Fire Competition was very prevalent in the early seventies and BP Chemicals was very successful on many occasions.

On one such occasion I happened to ring Richard Coates fire officer with BP International. Following a lengthy conversation we both had similar views and agreed that we needed to address these matters. Several phone calls later (long before email, iPads etc) between numerous fire officers within the UK industry, it was agreed that there was a need to convene a meeting to try and formulate a fire safety module for our specific Industry.

An inaugural meeting was hosted by BP in the former Britannic House, London, England. Following this meeting it was decided to establish a group for the purposes of sharing information, incidents and all problems dealing with fire and fire prevention matters. The group was named JOIFF (Joint Oil Industry Fire Forum) and the rest is now history.

Both Richard and I are so proud of our achievements and of those original personnel who established this group and to coin a phrase 'from little acorns mighty oak trees grow'.

Since then of course the organisation has grown and other objectives realised. JOIFF then became The Organisation for Emergency Services Management, and more recently and up until the present International Organisation for Industrial Hazard Management or simply JOIFF, the name by which the organisation is now well known world wide.

JOIFF over the years has gone from strength to strength under the very capable hands of the likes of Alec Feldman, Gerry Johnson, Kevin Westwood and the current Chairman Randy Fletcher (who with his experience and knowledge has added an extra level of professionalism to JOIFF).

So it's with a heavy heart that I have decided that I should stand down as a director of JOIFF and pass the baton over to the younger generation.

It's been a long, adventurous but thoroughly enjoyable journey with numerous fond memories and I have met some amazing 'fire-fighters' and acquired some life long friends during this period.





I wish JOIFF and all who sail in her a safe passage on her never ending voyage of discovery, and I am completely satisfied that with the current crew onboard, there will adventures and some times stormy seas ahead but I am sure JOIFF will continue her journey regardless.

Bon Voyage,
Eddie

Editor's Note: Eddie is a passionate Welshman and the title of this article is in the Welsh language. The word Aber in Welsh means a small stream or river/or a confluence of a river or stream. Milford Haven is known in Welsh as Aberdaugleddau which is nothing like Milford Haven. Roughly translated it means 'the mouth of the two river Cleaddau', these obviously flow into Milford Haven the deepest natural harbor in the world with one exception Bantry Bay.

The Catalyst wishes Eddie a happy and healthy retirement.



Derailed at rail loading bay, all tanks were full of petroleum spirit at the time

About JOIFF Accreditation

JOIFF has developed and operates a system of accreditation of training. JOIFF accreditation is a system of quality assurance that ensures that a minimum standard of training carried out safely is provided to all students on an on-going basis. Based on experience and as new and better practices are introduced the minimum standards of performance required for JOIFF accreditation are amended to incorporate advances.

A physical audit is an important part of the accreditation system. To obtain JOIFF accreditation, an examination is necessary of the three pillars that make up effective provision of training:-

Establishment/organisation including facilities, Safety Management Systems and procedures;

Safety Management systems must be in place and show that the Establishment has effective policies, protocols and procedures that allow for a safe system of work, the facilities and practices are regularly risk assessed, the courses/programmes being presented are consistently safe and appropriate and there are adequate and appropriate resources/facilities to allow the training to be carried out. The training scenarios must be relevant to the hazards on and off the site on which the emergency responder may be required to respond within their Site Emergency Response Plan. Training Providers should be able to demonstrate that they have in place effective systems and procedures that will ensure provision of these outcomes on an on-going basis.

Instruction.

The Training Provider must demonstrate that its policies,

protocols and procedures with regard to Instruction include that the Training Provider has carried out its own Risk Assessment to determine the Instructor/Student ratio for the intended training scenarios that allows a safe system of work; there are sufficient numbers of Instructors on each Course to deal effectively with the number of Students; Instructors are knowledgeable and experienced in the subject matter being dealt with as well as in the techniques of instruction and continual student assessment, have the Technical and Instructional ability, knowledge and experience to effectively instruct on the Courses to which they are assigned and have regular first-hand knowledge of the Industry for which they will be providing training to be in a position to provide credible and relevant Instruction on the courses/programmes to which they are assigned.

Courses/programmes.

As JOIFF accredited training is competency based it must be carried out under a system of continuous assessment. The accredited courses/programmes should be robust, challenging and relevant to the potential accidents/incidents on and off the site to which the emergency responder may be required to respond within their Site Emergency Response Plan. Content should be accurate within itself and accurate to the context of the emergency responder.

All aspects together must be to the required standard for JOIFF accreditation to be awarded.



JOIFF Accreditation Awarded

Following audits, JOIFF accreditation has been awarded to 2 Training Establishments in the Russian Federation.

LUKOIL COPROPRATIVE TRAINING CENTRE, ASTRAKHAN, RUSSIAN FEDERATION



Left to right: Alec Feldman, Director JOIFF. Sergey Tarasov, Director, Lukoil Corporative Training Centre. Ekaterina Khapugina, Deputy Director Lukoil Corporative Training Centre. Gerry Johnson, JOIFF Director of Standards of Training and Competence. Mariya Sineva, Specialist (translator), Lukoil Corporative Training Centre.

LUKOIL is one of the largest oil and gas vertical integrated companies in the world accounting for over 2% of crude production and circa 1% of proved hydrocarbon reserves globally.

Just over 6 years ago, Lukoil built the Lukoil Corporative Training Centre in Astrakhan, Russia which since then has provided training to offshore and onshore emergency responders. Lukoil Corporative Training Centre became a JOIFF Member Organisation in 2014. Following the recent audit, Gerry Johnson, JOIFF Director of Standards of Training and Competence presented a JOIFF Certificate of Accreditation for Lukoil Corporative Training Centre to Sergey Tarasov, Director, Lukoil Corporative Training Centre.

ADVANCED SAFETY TECHNOLOGIES LLC, ASTRAKHAN, RUSSIAN FEDERATION

JOIFF Member Organisation AST LLC has been a JOIFF accredited Training Provider since 2010 providing JOIFF accredited training courses relating to safe procedures for avoiding certain problems encountered in drilling and dealing with them when they occur.

Following a recent audit, Gerry Johnson, JOIFF Director of Standards of Training and Competence presented a JOIFF Certificate of Accreditation for AST LLC to Vitaly Baranov, General Director AST LLC.



Left to right: Alec Feldman, Director JOIFF. Yulia Eniha, Accountant AST LLC. Oleysa Eroshkina, Administrator AST LLC. Andrey Petrov, Instructor AST LLC. Vitaly Baranov, General Director AST LLC. Gerry Johnson, JOIFF Director of Standards of Training and Competence.

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The JOIFF Roll of Honour

The JOIFF Diploma is a competency programme for personnel who respond to Industrial emergencies, covering necessary key skills, learnt and demonstrated by the student in practical training and exercises. The programme is electronically based, assessed locally and remotely verified.

All students who successfully complete the JOIFF Diploma programme receive JOIFF accredited certificates. Those successfully completing the JOIFF Diploma programme can use the post nominals Dip.JOIFF after their names.

During July to September 2015, the following emergency responders were awarded the JOIFF Diploma:

Matt Brown Dip. JOIFF.
Lukoil Overseas Service B.V., Basra Iraq.

Matt started his career in Emergency Response in October 2000 as a retained fire fighter in Avon Fire & Rescue Service, U.K, moving to Essex County Fire & Rescue Service in March 2002 where he was appointed whole time shift rider fire fighter operating out of Basildon Fire Station. In July 2011, he was appointed Fire Supervisor in Abu Dhabi Gas Industries Ltd. (GASCO) Habshan and Bab Division, Abu Dhabi. U.A.E. and held this position until August 2012 when he moved to Abu Dhabi Company for Onshore Oil Operations (ADCO) as Fire Officer. In August 2013 he moved to LUKOIL Overseas Service B.V. Basra. Iraq where he is currently Emergency Rescue Service Team Leader.

The members of
Cleveland Fire Brigade Risk Management, Hartlepool, England



Some of the 19 CFB Risk Management Site Protection Officers who successfully completed and were awarded the JOIFF Diploma

Continued overleaf...

The JOIFF Roll of Honour *continued*

Members include:

Paul Beeforth
Callum Brown
Paul Cole
Paul Ferguson
Gary Flynn
David Gray
Gordon Gibbon
Paul Hodgson
Scott Hudson
Marty Keane
Guy Lawes
Liz Lawrence
Michael Mercheri
David Oakes
Graeme Ransom
Joe Robinson
Alistair Sandilands
Steve Toth
Barry Whitton

These nineteen Site Protection Officers, who make up part of the team that provides vital emergency cover at one of Teesside's major industrial sites, were awarded the Internationally recognised diploma in industrial fire management.

The 19, based at the Ineos Nitriles site at Seal Sands, where Cleveland Fire Brigade Risk Management provides around-the-clock protection, have completed around 15 months of training and continual assessment before being awarded the JOIFF Diploma.

JOIFF is dedicated to developing the knowledge and skills needed by emergency response personnel who respond to incidents in high hazard industries. Although the emphasis in fire hazard management is on prevention and protection the team also needs the skills and ability to command emergency operations involving incidents of every size.

CFB Risk Management has one of the largest workforces in the UK with the skills and competence to work in these high hazard conditions and Ineos Nitriles, one of Europe's largest industrial manufacturers of plastics, is one of a number of high profile contracts won by the company.

"Operating in the Teesside area which has a concentration of high hazard industries gives us invaluable experience and expertise but we are also totally committed to providing the best training and qualifications for our fire-fighters," said Kevin Harrison, Operations Manager for CFB Risk Management at the Ineos Fire Station.

"The Diploma covers a wide range of skills including hazardous materials, security, fire management and medical emergencies. One of the advantages is that a lot of the training is based on the site where the team works, using the equipment and facilities we have here.

"We provide protection services for a whole range of blue-chip companies operating in the oil and gas, petrochemical and nuclear sectors and this is an additional reassurance for them that our personnel are not only experienced but also trained to the very highest standards," he added.

Started in 2011 as a community interest company, Cleveland Fire Brigade Risk Management has a growing reputation for its range of specialist fire protection services with multi million pound contracts across the UK and growing interest from Europe and the Middle East. All profits go into community projects that improve safety for thousands of families in the Tees area.

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The Catalyst and the Directors of JOIFF and extend congratulations to those mentioned above.

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Emergency Escape Breathing Devices (EEBDs) – Fitness for Use

By Mohamed Elagrab, QSSP, MBA

With more oil and gas fields going sour or deep water, it becomes more important to make sure industrial workers are equipped with the right and safe respiratory protection devices. The questions that could be asked are:

- Do we have the correct EEBD to protect the wearer against H₂S?
- Is the EEBD 'fit' for use in offshore applications?
- What about intrinsic safety?

In the next lines, I will clarify the testing and certification process which makes an EEBD fit for use in OGP applications.

To be finally approved and certified for use in Europe, pressure demand (positive pressure) EEBDs are tested to the applicable European Standard

EN 402:2003

Respiratory protective devices - Lung governed demand Self-contained open-circuit compressed air breathing apparatus with full face mask or mouthpiece assembly for escape - Requirements, Testing, marking

For offshore platform applications or marine industry the EEBD should be further tested according to the International Standard

ISO 23269-1:2008

Ships and marine technology — Breathing apparatus for ships — Part 1: Emergency escape breathing devices (EEBD) for shipboard use

This standard has the same requirements as EN 402:2003, but with additional highly increased requirements for resistance to corrosion and mechanical stress.

For intrinsic safety requirements in the oil & gas industry as well as high hazardous environments, further tests can be conducted and the EEBD can be certified according to the European ATEX Directive 94/9/EC, covering the use in potentially explosive atmospheres

EC type examination certificate BVS14ATEXH034X

using the following European and International Standards

EN 1127-1:2011

Explosive atmospheres - Explosion prevention and protection - Part 1: Basic concepts and methodology

EN 13463-1:2009

Non-electrical equipment for use in potentially explosive atmospheres – Part 1: Basic method and requirements

IEC/TS 60079-32-1:2013

Explosive atmospheres – Part 32-1: Electrostatic hazards, guidance

To further underline the protection given by an EEBD, additional tests could be carried out by third party laboratories especially if H₂S is a real concern.

These highly critical tests serve to measure the permeation of H₂S through materials/components of the EEBD to be absolutely sure the components/parts are H₂S resistant. Permeation is the ability of contaminants to go through materials, even without any leakages (i.e. even with a tight face piece). H₂S is known to permeate very well through several elastomeric materials used for the manufacturing of full face masks, breathing hoses or diaphragms of lung governed demand valves. Selection of proper materials in the design of such escape devices is very critical for the overall performance of the device.

Conclusion

Check behind the applicable product standards and make sure that your EEBD is fit for use for your application. With more operations going sour or deep water, extreme operating conditions are expected and respiratory protective devices may need to pass additional critical tests that are far beyond the requirements of existing European standards.

Editor's note Mohamed Elagrab, QSSP, MBA is Product Line Manager, Industrial SCBA with MSA Technologies and Enterprise Services GmbH. Mohamed has more than 12 years experience working closely with Oil & Gas customers around the world to design, supply and customise supplied air solutions. Mohamed is a big supporter of JOIFF and a member since 2011

Images from incidents that occurred during the third quarter of 2015 (continued from front cover)





NEW JOIFF GUIDELINE COMPLETED

Some years ago a JOIFF member identified a need for the development of a JOIFF Guideline on good practices about Inerting Vertical Storage Tanks as the process to secure this Line of Defence can pose many challenges. The proposal was put to and approved by the JOIFF Board of Directors and in September 2013, nominations were invited from JOIFF Members Worldwide for experts in this field to join a new Working Group to develop this JOIFF Guideline.

A JOIFF Working Group of experts was established and after detailed work, they completed the final draft and circulated it for consultation to all JOIFF Members. Following the consultation process in August 2015 the completed JOIFF Guideline on Inerting Vertical Storage Tanks was put on the JOIFF website.

In announcing the availability of this new Guideline, the Chair of the Working Group commented that Inerting storage tanks can prevent tank fires. There are however many parameters which have to be taken into account

when secure Nitrogen blanketing is applied for vertical storage tanks. Many codes and standards list relevant information on inerting storage tanks, ranging from health and safety aspects to tank design. The JOIFF Guideline has brought all this information together in one comprehensive document.

As there are many options for designing storage tanks, an array of products to be stored and various storage conditions, the guideline recommends going through the 12 steps of the performance based process to determine the actual conditions for accomplishing secure Nitrogen blanketing.

The present Guideline focusses on Nitrogen blanketing only and in the future, JOIFF hopes to incorporate the use of other inerting media, like CO₂ to the Guideline in the updating process.

The completed Guideline is now available from the JOIFF website at www.joiff.com for free download.

Diary of Events 2015/2016

November

- 2nd - 4th **Civil Defence Exhibition and Conference** Doha, Qatar
- 10th—11th **8th Annual Conference for Fire Brigades in High Hazard Industry**, Budapest, Hungary
- 11th – 12th **JOIFF Annual General Meeting**, IFTC, England

2016

January

- 17th – 19th **Intersec**, Dubai, UAE

November

- 22nd – 24th **Oil Spill India**, Goa, India

SPECIAL NOTICE: NOVEMBER 2016

JOIFF Inaugural Fire and Explosion Hazard Management Conference, Malta

Please contact the JOIFF Secretariat with details of any event that you think that JOIFF Members might be interested in attending.

Note: The Catalyst is not responsible for the accuracy of dates and / or venues announced. This diary is based on information given to the Editors and is published in good faith.



JOIFF TRAINING NOTES

"TRAIN AS IF YOUR LIFE DEPENDS ON IT, BECAUSE SOMEDAY, IT MIGHT!"

JOIFF accredited training is within a Competency Based Training framework and involves course content, instruction and the facilities of the training provider/training establishment. All students who successfully complete a JOIFF accredited course/programme are issued with a JOIFF Certificate of Competence which has its own unique number.

"If you think that you can do it, that is confidence. If you can do it well on an on-going basis, that is competence!"

JOIFF Accredited Course	Dates	Venue / Organiser
Site Specific Courses Fire & Safety Foundation 4 x 1 Day Modules Incident Controller 2 or 4 Days SCBA Initial & Refresher Confined Space Entry Confined Space Train the Trainer (with SCBA for High Risk)	As required	On your own site. Subject to Risk Assessment & Facilities For further information contact arcfiretraining@ntlworld.com
Industrial First Responder Course (5 days)	19 th – 23 rd October	Falck Risc, Rotterdam, Netherlands Email: industrie@falck.nl
Fire Incident Command Course (5 Days)	23 rd – 27 th November	
Site Incident Controller Training (2 Days)	2016 16 th – 17 th February 17 th – 18 th May	Eddystone Consulting Email: opportunities@eddistone.com Tel: +44 1433 659 800
Site Main Controller (3 Days)	2016 9 th – 11 th February 10 th – 12 th May	
Industrial Safety and Emergency Response (3 Days)	1 st – 3 rd December	H2K T. +31 174 41 48 72 E. info@h2k.nl www.h2k.nl

The following dates have been provided by JOIFF accredited training providers. If you wish to find out any information or make a booking, please contact the training provider direct, contact email addresses provided.

JOIFF Secretariat:

Fulcrum Consultants

P.O. Box 10346, Dublin 14, Ireland

Email: fulcrum.consult@iol.ie

Website: www.fulcrum-consultants.com

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