

International Standards Workshop for the Oil & Gas Industry in Libya & North Africa

20-21 November 2007
Dat El Emad Conference Centre,
Tripoli, Libya



**Global Standards
used locally
worldwide**



The Libyan National Centre for Standardization & Metrology (LNCSM) and Libyan Petroleum Institute (LPI), in association with the International Organization for Standardization (ISO) and the International Association of Oil & Gas Producers (OGP) are organising a sector-specific workshop for professionals working in the Libyan and North African oil and gas industry that make use of standards in their work.

Objectives

This workshop is designed to provide professionals of oil & gas companies, national authorities, service providers, the supply industry and rule-making authorities with the opportunity to broaden their understanding of international standardization activities for this global industry.

The workshop will review and discuss ongoing international, regional and national standardization efforts, the role of standards developing organizations in the standards development process and the experiences within relevant countries and regions of adopting and implementing International Standards for the oil & gas sector, including the challenges facing the harmonisation of company and regional standards with these standards.

Key Benefits

- 1) Gain an overview of the International Standardization process with particular focus on the efforts, work and deliverables arising out of ISO Technical Committee (ISO/TC) N° 67, *Materials, equipment and offshore structures for the petroleum, petrochemical and natural gas industries*;
- 2) Improve understanding of the importance and benefits of International Standardization in oil & gas industry and explore the activities and experiences of international, regional, national and company related activities, as well as how Libya and other North African countries can positively influence, via active participation, the development of these standards;
- 3) Participate in the discussion and definition of the Libyan and other North African countries oil & gas sector standardization needs in view of an ongoing global oil & gas industry;
- 4) Develop a clear picture on the benefits of adopting and implementing International Standards as national standards, and elaborating effective solutions to the identified difficulties faced in this regard;
- 5) Learn more on the detailed policies and procedures of the development of ISO standards.

Topics will include:

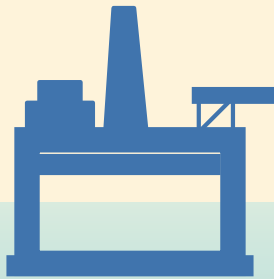
- Opening address from the Libyan Secretariats of Planning; Electricity, Gas and Water; the National Oil Corporation; and the ISO Central Secretariat
- The role of the National Economic Development Board (NEBD);
- Moving towards global standards for the benefit of the oil & gas industry – the global role of OGP;
- Introduction to the ISO global village;
- The roles of the Libyan National Centre for Standardization & Metrology (LNCSM) and the Libyan Petroleum Institute;
- Standardization efforts and developments in the Libyan NOC;
- An OPEC overview of the global oil & gas industry, and the role of International Standards;
- Work of ISO Technical Committees:
 - *ISO/TC67, Materials, equipment and offshore structures for the petroleum and petrochemical industries;*
 - *ISO/TC28, Petroleum products and lubricants;*
 - *ISO/TC193, Natural gas;*
- Regional standards organizations and their role in the oil and gas industry: Gulf Standards Organization (GSO), neighbouring countries, European Committee for Standardization (CEN), American Petroleum Institute (API);
- Think standards, think global – corporate adoption of International Standards in Shell;
- Petrobras' experience in working with International Standards, their impact on national regulations and standards, and on in-house corporate specifications;
- Qatar Petroleum – experience gained, advantages and challenges since joining and participating in the OGP Standards Committee and the ISO committee environment;
- Role, work, challenges & benefits of the Libyan National Centre for Standardization and Metrology (LNCSM) for the oil & gas, and related sectors;
- Libyan national adoption and implementation of ISO and IEC Standards;
- Libyan NOC exposé: Libyan Accreditation Committee; management & administration of design and engineering technical standards/specifications; role of integrated management systems standards; vision, strategies and future outlook;
- Future standards needs in Libya;
- Interactive round-table topical discussions;
- Key points summary and workshop conclusion;
- ISO committee-management & standards-development awareness session.

ISO Standards for use in

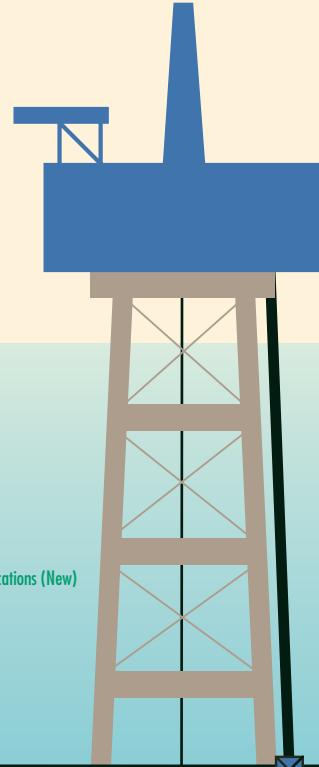
ISO 10418 Basic surface safety systems
 ISO 10423 Wellhead & christmas tree equipment
 ISO 13533 Drill-through equipment (BOPs)
 ISO 13534 Hoisting equipment - care/maint
 ISO 13535 Hoisting equipment - specification
 ISO 13626 Drilling and well-servicing structures
 ISO 13702 Control & mitigation of fire & explosion
 ISO 13703 Offshore piping systems
 ISO 14224 Reliability/maintenance data (Rev)
 ISO 14692 GRP piping, Parts 1-4
 ISO 14693 Drilling equipment

ISO 15156-1 Selection of cracking resistant materials for use in H₂S environments
 ISO 15156-2 Cracking-resistant steels and cast irons for use in H₂S environments
 ISO 15156-3 Cracking-resistant alloys for use in H₂S environments
 ISO 15138 HVAC (Rev)
 ISO 15544 Emergency response
 ISO 15663 Life cycle costing, Parts 1-3
 ISO 17776 Assessment of hazardous situations
 ISO/TS 27469 Method of test for offshore fire dampers (New)
 ISO/TS 29001 Sector-specific quality management systems (Rev)

ISO 19900 Offshore structures
 ISO 19901-1 Metocean design
 ISO 19901-2 Seismic design
 ISO 19901-4 Geotechnical
 ISO 19901-5 Weight control
 ISO 19902 Fixed steel
 ISO 19903 Fixed concrete
 ISO 19904-1 Floating offshore



ISO 13625 Marine drilling riser couplings
 ISO 19901-7 Stationkeeping systems



ISO 13628-1 Subsea production systems
 ISO 13628-2 Subsea flexible pipe systems (Rev)
 ISO 13628-3 Subsea TFL pumpdown systems
 ISO 13628-4 Subsea wellhead and tree equipment
 ISO 13628-5 Subsea control umbilicals

ISO 13628-6 Subsea production controls (Rev)
 ISO 13628-7 Completion/workover riser system
 ISO 13628-8 ROV interfaces
 ISO 13628-9 ROT intervention systems
 ISO 13628-10 Bonded flexible pipe
 ISO 13628-11 Flexible pipe systems for subsea and marine applications (New)

ISO/TR 10400 Calculations for OCTG performance properties (Rev)
 ISO 10405 Care/use of casing/tubing
 ISO 10407-1 Drill stem design
 ISO 10407-2 Inspection and classification of drill stem elements (New)
 ISO 10414-1 Field testing of water-based fluids (Rev)
 ISO 10414-2 Field testing of oil-based fluids (Rev)
 ISO 10416 Drilling fluids - lab testing (Rev)
 ISO 10417 Subsurface safety valve systems
 ISO 10424-1 Rotary drill stem elements
 ISO 10424-2 Threading and gauging of connections (New)
 ISO 10426-1 Well cementing
 ISO 10426-2 Testing of well cements

ISO 10426-3 Testing of deepwater well cement
 ISO 10426-4 Preparation and testing of atmospheric foamed cement slurries
 ISO 10426-5 Shrinkage and expansion of well cement
 ISO 10427-1 Bow spring casing centralizers
 ISO 10427-2 Centralizer placement and stop-collar testing
 ISO 10427-3 Performance testing of cement float equipment
 ISO 10432 Subsurface safety valves
 ISO 11960 Casing and tubing
 ISO 11961 Drill pipe
 ISO 13500 Drilling fluids (Rev)
 ISO 13501 Drilling fluids - processing systems evaluation

ISO 13503-1 Measurement of viscous properties
 ISO 13503-2 Measurement of properties of heavy brines
 ISO 13503-3 Testing of heavy brines
 ISO 13503-4 Measurement of stimulation & completion fluids
 ISO 13503-5 Measurement of long term completion fluids
 ISO 13678 Thread compounds
 ISO 13679 Connection testing
 ISO 13680 CRA seamless tubes for casing and tubing
 ISO 14310 Packers and bridge plugs
 ISO 15136-1 Progressing cavity pump systems
 ISO 15136-2 Progressing cavity pump systems
 ISO 15463 Field inspection of new casing, tubing and wellhead

ABOUT OGP

The International Association of Oil & Gas producers (OGP) encompasses most of the world's leading publicly traded, private and state-owned oil & gas companies, oil & gas associations and major upstream service companies. OGP members operate in more than 80 different countries and produce more than half the world's oil and about one third of its gas.

The association was formed in 1974 to develop effective communications between the upstream industry and an increasingly complex network of international regulators.

An essential part of OGP's mission is to represent the interests of the upstream industry to international regulators and legislators.

OGP also helps members achieve continuous improvement in safety, health and environmental performance, and in the engineering and operation of upstream ventures. OGP's extensive international membership brings with it a wealth of know-how, data and

experience. OGP committees and task forces manage the exchange and dissemination of this knowledge. OGP additionally promotes awareness of Corporate Responsibility issues such as transparency of revenues and combatting corruption.

The OGP Standards Committee monitors, co-ordinates and influences the development of international standards to meet the needs of OGP members. There is close communication with national, regional and international standards bodies, particularly the API, CEN and ISO. Information on the activities of the OGP Standards Committee and other OGP committees, including freely downloadable publications produced by the OGP, can be accessed via the OGP website at www.ogp.org.uk

ABOUT ISO

ISO is a network of the national standards institutes of 157 countries, on the basis of one member per country, with a Central Secretariat in Geneva, Switzerland, that coordinates the system.

in the oil & gas industry

shore structures - general requirements
ocean design and operating considerations
omic design
technical and foundation design
ght control
d steel offshore structures (Rev of ISO 13819-2)
d concrete offshore structures (New)
ting offshore structures (New)

ISO 3977-5 Gas turbines – procurement
ISO 10434 Bolted bonnet steel gate valves
ISO 10437 Special-purpose steam turbines
ISO 10438 Lubrication, shaft-sealing and control-oil systems, Parts 1-4 (Rev)
ISO 10439 Centrifugal compressors
ISO 10440-1 Rotary-type positive-displacement process compressors (oil-free) (Rev)
ISO 10440-2 Rotary PD packaged air compressors
ISO 10441 Flexible couplings – special (Rev)
ISO 10442 Integrally geared air compressors
ISO 13631 Reciprocating gas compressors
ISO 13691 High speed enclosed gear units
ISO 13704 Calculation of heater tube thickness (Rev)

ISO 13705 Fired heaters for general service (Rev)
ISO 13706 Air-cooled heat exchangers
ISO 13707 Reciprocating compressors
ISO 13709 Centrifugal pumps
ISO 13710 Reciprocating positive displacement pumps
ISO 14691 Flexible couplings – general
ISO 15547-1 Plate & frame type heat exchangers
ISO 15547-2 Brazed aluminium platefin type heat exchangers
ISO 15649 Piping
ISO 15761 Steel valves DN 100 and smaller
ISO 16812 Shell & tube heat exchangers (Rev)
ISO 17292 Metal ball valves
ISO 21049 Centrifugal and rotary pumps shaft sealing
ISO 23251 Pressure-relieving and depressuring systems (New)
ISO/TS 24817 Composite repair of pipework (New)

properties of completion fluids
ies of proppants (New)
tion & gravelpack fluid leakoff (New)
rm conductivity of proppants (New)
casing and tubing
s
systems
systems - drive heads (New)
asing, tubing and plain end drill pipe

ISO/TR 15464 Gauging and inspection of casing, tubing and line pipe threads (New)
ISO 15546 Aluminium alloy drill pipe (Rev)
ISO 16070 Lock mandrels and landing nipples
ISO 17078-1 Side-pocket mandrels
ISO 17078-2 Flow control devices for side-pocket mandrels (New)

ISO 3183 Steel pipe for pipeline transportation systems (Rev)
ISO 13623 Pipeline transportation systems
ISO 13847 Pipeline welding
ISO 14313 Pipeline valves (Rev)
ISO 14723 Subsea pipeline valves
ISO 15589-1 Cathodic protection for on-land pipelines
ISO 15589-2 Cathodic protection for offshore pipelines
ISO 15590-1 Pipeline induction bends
ISO 15590-2 Pipeline fittings
ISO 15590-3 Pipeline flanges
ISO 16708 Pipeline reliability-based limit state design (New)
ISO 21329 Test procedures for pipeline mechanical connectors
ISO 21809-2 Fusion-bonded epoxy coatings (New)



Standards in **brown** issued in 2006

Standards in **green** are a priority for 2007 issue

Many of these standards are adopted by API, CEN and other recognised standards bodies

ISO is a non-governmental organization: its members are not, as is the case in the United Nations system, delegations of national governments. Nevertheless, ISO occupies a special position between the public and private sectors. This is because, on the one hand, many of its member institutes are part of the governmental structure of their countries, or are mandated by their government. On the other hand, other members have their roots uniquely in the private sector, having been set up by national partnerships of industry associations.

Therefore, ISO is able to act as a bridging organization in which a consensus can be reached on solutions that meet both the requirements of business and the broader needs of society, such as the needs of stakeholder groups like consumers and users.

Because "International Organization for Standardization" would have different acronyms in different languages ("IOS" in English, "OIN" in French for Organisation internationale de normalisation), its founders decided to give it also a short, all-purpose name. They chose "ISO", derived from the Greek isos, meaning "equal". Whatever the country, whatever the language, the short form of the organization's name is

always ISO.

Standards make an enormous and positive contribution to most aspects of our lives.

Standards ensure desirable characteristics of products and services such as quality, environmental friendliness, safety, reliability, efficiency and interchangeability - and at an economical cost.

When products and services meet our expectations, we tend to take this for granted and be unaware of the role of standards. However, when standards are absent, we soon notice. We soon care when products turn out to be of poor quality, do not fit, are incompatible with equipment that we already have, are unreliable or dangerous.

When products, systems, machinery and devices work well and safely, it is often because they meet standards. And the organization responsible for many thousands of the standards which benefit the world is ISO.

When standards are absent, we soon notice.

Programme

The detailed programme for the event is being finalised.

For the most recent version, visit: <http://info.ogp.org.uk/standards/LibyaEvent/>.

Mini-exhibition

Participating organisations have the possibility of exhibiting relevant posters and publications during this workshop.

Visa requirements

Foreign guests are required to submit to LNCSM (email: reception@lncsm.org.ly):

- a copy of their passport's personal information page;
- a completed information form, available from http://info.ogp.org.uk/Standards/LibyaEvent/VISA_application_form.doc/;
- city of Libyan embassy/consulate most convenient for VISA pick-up.

LNCSM will organise the VISA and inform the relevant local consulates.

Note: Deadline for providing passport and visa information to LNCSM is Monday 29 October.

Language, registration & accommodation

The workshop will be held in English. Please register for the workshop by completing the registration form overleaf. There is no charge for attending the workshop.

Hotel information is provided, and bookings facilitated by LNCSM.

A special rate of 120LYD has been negotiated with the following three government-owned 4-star hotels:

- El Kabear
- El Mahary
- Winzreek

If you need hotel accommodation, please email the relevant LNCSM contact below, and it will be arranged for you.

Contacts

Workshop:

Eng. Salah Eddin S. Tarhouni
email: sdst1963@yahoo.com or
reception@lncsm.org.ly

Hotel:

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reception@lncsm.org.ly

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Personal details

First Name -----
Surname -----
Position -----
Company -----
Address -----

Telephone
(incl. country code) -----
Fax -----
Email -----

Workshop registration

This section must be completed to attend the workshop, awareness training session and the tour. There is no charge for attending.

- Workshop Tuesday 20 November (*including lunch*)
- Networking reception in the evening of 20 November
- Roundtable Wednesday 21 November (*up to and including lunch*)
- Standards development awareness session 21 November (*after lunch*)

For lunch, please note any special dietary requirements below:

-
- Tour to Leptis Magna (ancient Roman city,) 120km from Tripoli. Thursday 22 November

Once the workshop registration form is complete...

Please register by fax or scan & email the form to both:

LNCISM:

email: reception@lncism.org.ly

fax: +218 21 468 0885

or 463 0338

or 484 2873

...and

OGP:

email: reception@ogp.org.uk

fax: +44 20 7633 2350

Registration must be received by Thursday 01 November.

A confirmation of your registration will be sent to you by e-mail.

This workshop has been made possible by the participation of the following organizations:



StatoilHydro