



Society of Petroleum Engineers



# Achieving Wells Excellence through Standardisation

20 - 22 April 2021 | Virtual [UTC+8]



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## Who Should Attend

Professionals involved in:

- Asset Integrity
- Asset Management
- Change Management
- Drilling and Completions
- HSE and Risk Management
- Plugging and Abandonment
- Process Safety Management
- Contract and Procurement
- Production Analyst
- Production and Operation Management
- Production Technology
- Regulators
- Researchers
- Reservoir Engineering
- Subsea System
- Supply Chain
- Wells Business Support
- Wells Construction
- Wells Engineering
- Well Intervention
- Wells Strategy
- Vendors and Services

Confronted by the biggest health and economic crisis, the oil and gas industry continue to be challenged by volatility in demand and oil price. In the Wells business, projects continue to be challenged in terms of commercial, health, and safety. Whilst the health industry races to find a vaccine, the industry and more specifically Wells, will need to be geared to recover and emerge stronger. In order to achieve this, the Wells business will need to be able to deliver a safe, sustainable, and predictable outcome in everything that is done. As each company works to achieve this on its own, there is benefit for companies to synergise through end-to-end standardisation and simplification. But what is 'standardisation' in this context?

The 'standardisation' in the context of this workshop is about uniformity and consistency in how business is run efficiently in order to achieve the excellence mentioned above. The scope is not limited to equipment specifications, but how organisations are set up to learn, adapt and quickly replicate best practices. Standardisation also means that every organisation is not trying to find cost savings measures in unique ways, but rather gain efficiency through rapid replication, with repeatable and simplified processes. Contrary to popular belief, standardisation is also expected to accelerate innovation, and reduce risk in business. Modernisation in the area of digitalisation has helped realisation of this theme, whereby people and organisations are able to better track, trace, integrate, and deliver effectively.

Specific benefits expected to be gained through 'standardisation' involves all areas of the Wells business, such as drilling, completions, HSE, intervention, and abandonment.

- Asset performance where unit cost per barrel can be reduced.
- Service providers can reduce the variety in equipment and service specification to focus on effective execution and lower downtime.
- Inventory reduction and easily reusable and re-sellable surplus equipment, thus, increasing economies of scale.
- Predictable well performance with examples of standardising the type of installed capital equipment as well as vendor's tools.

## Session Highlights

Keynote Address and Panel Session	Case Studies, Methods and Processes for Standardisation	Well Design Standardisation	Work Units - Minimum Requirement
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Technology, Digitalisation, and Innovation	Key Enablers to a Standardised Supply Chain - Contracting, Procurement, and Tendering
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[go.spe.org/22WM02W](https://go.spe.org/22WM02W)

# Workshop Objectives

The workshop will assess the current state of standardisation and provide the industry with best practices and recommendations on how standardisation has been successful and can be replicated by all. The scope of the workshop and presentations will cover Wells design, supply chain management, contracting and procurement, well intervention and abandonment, vendor equipment/tools specifications, work units, process management, and technology and digitalisation.



hours of peer-to-peer networking opportunities



hours of knowledge sharing and technical discussion



expert-led technical discussion topics



## Technical Programme Committee

### CO-CHAIRS



Norazan A Kadir  
Head Wells Management,  
MPM  
**PETRONAS**



Sunderesan Bhaskaran  
General Manager Wells  
Performance and Planning  
(Integrated Gas)  
**Shell**

### TECHNICAL PROGRAMME COMMITTEE

Rodney Barretto  
President  
**Barretto Business  
Development LLC**

Yap Yun Thiam  
Principal Well Engineer  
**PETRONAS Carigali Sdn Bhd**

Shaharum Ramli  
Chief Business Officer  
**Setegap Ventures Petroleum  
Sdn Bhd**

Ts. Mohamad Sukor Zainal  
Executive Director  
**EFTECH Drilling Solutions**

M Azlan Tumiran  
Head Wells Abandonment &  
Decommissioning  
**PETRONAS Carigali Sdn Bhd**

Ros Aliff Roslan  
Head of Sales  
**Uzma Berhad**

Alex Liew  
Head of Well Engineering  
**Petrofac (PM304-Malaysia)  
Limited**

Zulhilmi Drus  
Senior Drilling Engineer  
**Repsol Malaysia Ltd.**

Mak Oong Yan  
Asset Senior Manager  
**Velesto Energy Berhad**

M Nizam Ramli  
Principal Wells Engineering  
Resource Development &  
Management  
Wells Management, MPM  
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Zahris Sham Abu Musa  
Global Account Director -  
PETRONAS  
**Schlumberger**

Normala Shah  
Account Manager  
**Weatherford (M) Sdn Bhd**

Suthesh Arul a/I A.Arulselvam  
Independent

Pete Slagel  
Specialist, Well Engineering  
**PETRONAS Carigali Sdn Bhd**

### WORKSHOP ADVISORS



Ts. Shahril Ridzaudin  
Mohd Mokhtar  
Head of Completions  
**PETRONAS**

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## Programme Schedule

Please Note: All times are Greenwich Mean Time (GMT) +8

Tuesday, 20 April 2021	
1300 - 1430 hours	Welcome Remarks, Keynote Address and Session 1: Panel Session
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 2: Case Studies, Methods and Processes for Standardisation
1630 - 1700 hours	Networking Break
Wednesday, 21 April 2021	
1300 - 1430 hours	Session 3: Well Design Standardisation
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 4: Work Units - Minimum Requirement
1630 - 1700 hours	Networking Break
Thursday, 22 April 2021	
1300 - 1430 hours	Session 5: Technology, Digitalisation, and Innovation
1430 - 1500 hours	Networking Break
1500 - 1630 hours	Session 6: Key Enablers to a Standardised Supply Chain - Contracting, Procurement, and Tendering
1630 - 1700 hours	Networking Break

**TUESDAY, 20 APRIL 2021**

1300 - 1345 hours **Welcome Remarks by Co-Chairs**  
**Co-Chairs:** *Norazan A Kadir, Head Wells Management, MPM, PETRONAS; Sunderesan Bhaskaran, General Manager Wells, Performance and Planning (Integrated Gas), Shell*

**Keynote Address**

1345 - 1430 hours **Session 1: Panel Session**  
**Session Managers:** *Pete Slagel, PETRONAS*

1430 - 1500 hours Networking Break

1500 - 1630 hours **Session 2: Case Studies, Methods and Processes for Standardisation**  
**Session Managers:** *Alex Liew, Petrofac (PM304-Malaysia) Limited; Zahris Sham Abu Musa, Schlumberger*

A standard can be described as repeatable, harmonised, agreed, and documented. Standards contain technical specifications or other precise criteria designed to be used consistently as a rule, guideline, or definition.

Standardisation is the process of developing, implementing and in some cases, mandating processes or technical standards based on consensus of different parties within an organisation or industry. By applying proper technical or process standards, it can streamline the quality and consistency of the outputs, be it a product or services, in ensuring their compatibility,

interoperability, repeatability, and safety. The end goal of this effort is to lower the overall costs of operations through efficiency and waste reduction, while maintaining the expected level of quality.

There are various methods and processes adopted by different companies to standardise and streamline their processes and operations. For instance, standards implemented for a product could be very specific, such as a standard product design, or broadly prescribed, such as standard technical requirements. However, with a standard design, where the product interfaces with other products, compatibility must be ensured. For processes, the Lean Six Sigma is one of the methods adopted widely in the manufacturing industry, this methodology could be adopted by the oil and gas industry to help come up with process standardisation to achieve desired outcomes. This method relies heavily on a collaborative team effort to improve performance by systematically removing wastes, reducing variations, and ensuring consistent end-products.

By having standard products and/or practices, work efficiency and performance can be increased significantly while minimising unnecessary duplication and waste, and this should lead to overall cost reduction. This session will focus on the challenges, success stories and lessons learnt on the methods and processes required to achieve standardisation in their work scopes or organisations.

1630 - 1700 hours Networking Break

**WEDNESDAY 21 APRIL 2021**

1300 - 1430 hours **Session 3: Well Design Standardisation**  
**Session Managers:** *Yap Yun Thiam, PETRONAS Carigali Sdn Bhd; M Azlan Tumiran, PETRONAS Carigali Sdn Bhd*

In the early years, despite having similar well objectives, well design variations between operators were glaring. This was due to the utilisation of individual technical standards and best practices by respective operators. Offshore well designs especially, tend to be more conservative, built with extra contingency and design with larger safety factor, which were rather subjective and inconsistent between operators. However, with the economic downturn in recent years, cost optimisation has become key to operational sustainability as operators are pressured to reduce the CAPEX-/ABEX, the development time, and to improve return on investment (ROI) by the stakeholders. As such, well design standardisation has become more prevalent, as part of optimisation.

The typical well design and planning cycle ranges from 6-24 months, subject to well complexity, with immense time spent on customised well designs and long lead items procurement due to the variety of design options by each operator. Full life cycle standardised well designs; including exploration, development, production and abandonment, will allow operators to reduce the project delivery cycle and the well CAPEX/ABEX significantly.

The mindset of implementing fit-for-purpose well design concept that is embraced by the industry, need to be revisited to reflect the current operating environment. Instead, the "one size fits most" concept is now gaining more momentum in the industry. Operators can have several standardised designs with suitability depending on several factors, including reservoir composition, capacity, and water depth. Having multiple designs empower operators to steer from the fit-for-purpose design approach with cost-effective standardisation approach covering all possible operating scenarios.

1430 - 1500 hours Networking Break

1500 - 1630 hours **Session 4: Work Units - Minimum Requirement**  
**Session Managers:** *M Nizam Ramli, PETRONAS; Zulhilmi Drus, Repsol Malaysia Ltd.; Mak Oong Yan, Velesto Energy Berhad*

Oil price cycle's occurrence had increased this decade and in relative to the past recovery from the recent downturn, may take a while to recover given the current situation. Low oil price has driven some operators to opt for minimised complexity and wells activities costs. Majority of operators have become more committed toward time optimisation in drilling campaigns through enhancing drilling rate, reducing flat time, and adding simultaneous operations.

In the context of standardisation, contractors in respective work units or product line could collectively consider synergising with operators in time-saving initiatives, which are not only limited to well construction and intervention operations, but also in the earlier stages such as during post award activities. Alternatively, the industry could re-evaluate what would be the minimum requirement of their product line that would serve the best interest of operators in the most cost-effective manner. The one-size-fits-all concept might not be effective, and standardisation of



## Technical Programme Preview

minimum technical requirement for work units or product line design should be considered and made ready with adequate fit-for-purpose equipment.

Some of the work units are governed by their own manual and standard, but a best practice and standard guideline should be adopted to enhance work unit reliability and serviceability, improve quality assurance, and reduce equipment failure. In today's challenging market, it is important to get the right tool at the right time, balance between cost and performance, and meet the demand of operators to lower operation cost.

In the end, such mutual initiatives could improve cost which will then drive higher activity frequency needed during this trying time. This session is not limited to drilling rig units, but also well intervention work units and any product line in general.

1630 - 1700 hours Networking Break

### THURSDAY, 22 APRIL 2021

1300 - 1430 hours **Session 5: Technology, Digitalisation, and Innovation**

**Session Managers:** *Ts. Mohamad Sukor Zainal, EFTECH Drilling Solutions; Normala Shah, Weatherford (M) Sdn Bhd*

Digitalisation and innovation are without doubt has become norms, mission and vision for almost all operators and service providers. This is the future of the world and the oil & gas industry. Digital adoption provides profound opportunities for reshaping operating angles of drilling operations leads to various benefits to day-to-day operations, enhanced project's productivity and ultimately cost reduction.

Standardisation of processes comprises of budgetary well planning, implementation, technical execution and post evaluation. The early estimation of well budgetary for instance tends to be over-estimated in which contributing to value leakage to the operator. The leakage might due to the lack of standardisation in digitalisation and big data practices.

In term of well design and well delivery, it will enable operators to drive more value from their projects in the safest way possible, while having the confidence their wells will be drilled and constructed with the highest level of integrity available in the market today and also include key factors in mitigating the drilling hazards.

The scope of this session will focus on ideas and new innovations on how to utilise digitalisation as an enabler for wells standardisation and cost reduction.

1430 - 1500 hours Networking Break

1500 - 1630 hours

**Session 6: Key Enablers to a Standardised Supply Chain - Contracting, Procurement, and Tendering**  
**Session Managers:** *Shaharum Ramli, Setegap Ventures Petroleum Sdn Bhd; Ros Aliff Roslan, Uzma Berhad; Suthesh Arul a/I A.Arulselvam; Rodney Barretto, Barretto Business Development LLC*

Supply chain links all the pieces together into one complete package and governs contractual obligations between end user and service provider. Supply chain also include provide delivery scope and specifications, timing, cost, quality, and HSE. Not many dare to venture into this profession due to the tremendous amount of challenges faced while combining inputs and demands from all relevant stakeholders, which more often than not vary, and converting them into solutions for everyone and in the interest of the project's success.

To say that there have been attempts made to standardise supply chain processes would be an understatement. In fact, there have been numerous collective efforts by all stakeholders to instil uniformity within the supply chain processes, not just within one scope or one organisation, but across various scopes of services and across organisations, such as integrated drilling contracts, integrated well services contracts, Umbrella contracts and Pan Malaysia contracts. Supply chain management is continuously evolving, more rapidly now in the current market climate, in echoing the calls from industry leaders for cost optimisation.

This session will focus on the challenges, success stories and lessons learnt, from which we can improve upon, in the journey towards wells standardisation from the supply chain perspective.

1630 - 1700 hours Networking Break

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- 1130 hours - Yangon
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- 1430 hours - Adelaide
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- b. Work in progress, new ideas, and interesting projects are sought.
- c. Resource documents may be provided as pre-reads and during the live event.

## 2. Workshop Deliverables

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- b. Provision of the live event sessions and presentation materials by Discussion Leaders will signify their permission for SPE to do so.

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