



# WorkSafe Petroleum Safety and Dangerous Goods

human factors industry forum 2023



# Acknowledgement of Country

We respectfully acknowledge Aboriginal peoples as the Traditional Custodians of this land on which we deliver our services to the communities throughout Western Australia. We acknowledge their enduring connection to the lands, waterways and communities and pay our respects to Elders past and present.

*Lions Lookout, Korung National Park (Photo credit: Tourism Western Australia)*







## About the event

The WorkSafe Petroleum Safety and Dangerous Goods Human Factors Industry Forum brings together opportunities to learn more about human factors in industry through insightful talks and practical case studies from industry speakers and the regulator.

In the science of work health and safety, human factors is understood as the elements within the work environment, systems and job itself that influence and shape human performance.

The WorkSafe Petroleum Safety and Dangerous Goods Directorate (WorkSafe) is responsible for the 22 major hazard facilities (MHF) and 56 petroleum and geothermal energy companies that conduct drilling, pipelines and production operations related to petroleum and geothermal energy in Western Australia (WA).

Each of these facilities and operations has the potential for an incident on a catastrophic scale if the operations are not conducted safely.

WorkSafe recognises the need to proactively address human factors and the important role we play in establishing industry-wide good practice within MHF and petroleum and geothermal energy operations.

The Human Factors Forum is part of the broader WorkSafe Petroleum Safety and Dangerous Goods Human Factors Capability Strategy; a multi-year strategy to build internal and external human factor capability through stakeholder engagement, education and guidance, industry forums and an industry-wide project to establish an industry baseline for integrating human factors into safety management systems.



Scan the QR code for more information on Human Factors within major hazard facility, petroleum and geothermal energy operations.

# Welcome

Welcome to the 2023 WorkSafe Petroleum Safety and Dangerous Goods Human Factors Industry Forum.

Human factors are an integral component of safe and reliable operations within major hazard facility (MHF), petroleum, geothermal and energy operations.

Today's forum will feature a number of speakers showcasing human factors in industry from both operator and regulator perspectives, along with a panel discussion on human factors focus areas for Petroleum Safety and Major Hazard Facility teams.

Thank you all for your participation in the forum, and I trust you will find it a valuable learning experience that will help improve health and safety outcomes in your workplaces.

Sally North  
Acting WorkSafe Commissioner, [WorkSafe WA](#)

# Program

Time	Topic	Presenter
8:30 am	Registration and light refreshments	
9:00 am	Opening remarks from the WorkSafe Commissioner	Sally North, Acting WorkSafe Commissioner, <b>WorkSafe WA</b>
9:15 am	Regulator perspective: <b>WorkSafe Petroleum Safety and Dangerous Goods human factors capability building strategy</b>	Iain Dainty, Director, <b>WorkSafe Petroleum Safety and Dangerous Goods</b>
9:30 am	Regulator perspective: <b>Human Factors Industry Baseline Project findings</b>	Justine McGillivray, Principal Inspector – Human Factors, <b>WorkSafe Petroleum Safety and Dangerous Goods</b>
10:00 am	Refreshment and networking break	
10:20 am	Showcase case study 1: Petroleum and geothermal energy operations – <b>Incorporating psychosocial hazard management into a petroleum safety case: the interaction with major accident event prevention</b>	Bryce McLaren, HSE Manager, <b>Buru Energy Limited</b>
10:50 am	Showcase case study 2: Major hazard facility operations – <b>Behavioural human factors contributing to a near miss</b>	Graeme Offer, Regulatory Compliance & Safety Specialist, <b>Hexion</b>
11:20 am	Showcase case study 3: Major hazard facility operations – <b>Dangerous Goods Transfer case studies: Misadventures in paradise</b>	Stephen Lane, Principal Inspector, <b>WorkSafe Petroleum Safety and Dangerous Goods</b>

Time	Topic	Presenter
11:50 am	Lunch and networking	
12:50 pm	Showcase case study 4: Petroleum and geothermal energy operations – Human factors: When every control goes wrong	John Wilson, Head of Health & Safety Transmission, Australian Gas and Infrastructure Group
1:20 pm	Showcase case study 5: Major hazard facility operations – The EDL human factors journey so far ...	Keith Sargent, LNG Duty Plant Manager, EDL
1:50 pm	Showcase case study 6: Petroleum and geothermal energy operations – Psychosocial Health Program implementation learnings	Russell Scott, Head of HSE, MITSUI E & P Australia
2:20 pm	Refreshment and networking break	
2:50 pm	Technical session: HAZOP Considerations – Putting people first	Eunice Lai, Human Factors Project Officer, WorkSafe Petroleum Safety and Dangerous Goods
3:20 pm	Regulator perspective: Human factors focus areas for Petroleum Safety and Major Hazard Facility teams and Q&A with the team leaders	Vaughn Hinkley, Petroleum Safety Team Leader, and Luke Van Baaren, Major Hazard Facility Team Leader, WorkSafe Petroleum Safety and Dangerous Goods  Facilitated by Iain Dainty, Director, WorkSafe Petroleum Safety and Dangerous Goods
3:50 pm	Regulator perspective and closing remarks	Iain Dainty, Director, WorkSafe Petroleum Safety and Dangerous Goods
4:00 pm	Close	

# Our speakers

## Sally North

Acting WorkSafe Commissioner, **WorkSafe WA**

Sally North is the Acting WorkSafe Commissioner, greatly valuing the opportunity to make a difference to the community through WorkSafe's education, inspections, investigations, legal and regulatory support teams and through collaborating with stakeholders.

Sally has led a WorkSafe directorate including specialist teams on human factors and ergonomics, asbestos, occupational hygiene, plant and engineering, and industry groups covering the public sector and related industries, and the retail and service industries. She has also acted as the Deputy WorkSafe Commissioner and is involved in State and national committees and working groups on work health and safety.

Sally has qualifications in chemistry, OSH, occupational hygiene and business administration.



































## 5 principles of human performance

- Variation in human performance is normal
- Learning is vital



- Blame fixes nothing
- Context drives behaviour
- Leadership response matters





**WorkSafe**  
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