



# Kumul Petroleum Academy

Presentation

*PNGHRI Conference Port Moresby, May 2018*





## Kumul Petroleum Academy: Aims and Objectives

- Providing Papua New Guineans with the skills and competences required by the oil, gas, energy and associated industries;
- Creation of an industry skill pool for technicians, supervisors and engineers, for both new entrants and experienced personnel;
- Skills enhancement of existing technicians, supervisors and engineers;
- Skills conversion of technicians/supervisors from related industry sectors;
- Work Experience for Graduate Engineers local and regional universities
- Adopt new technologies for accelerated learning;
- Creating the Industry Standard that is recognised worldwide; and
- Create a Centre of Excellence that attracts foreign trainees from the region and worldwide.



## Kumul Petroleum Academy

### Target Group:

Development of new technicians and skills enhancement for experienced personnel

### Programme Approach :

- Embedding HSE/ Safe System of Work Behavioural/ Process Safety Culture
- Competence based Operations and Maintenance Training & Assessment
- Graduate / Technician Development Programmes
- Front Line Leadership Development Programmes
- Vendor Specific Training and Assessment
- Emergency Response and Crisis Management
- Competence assurance management



**Kumul Petroleum and ExxonMobil Trainees**





## Kumul Petroleum Academy

### Facilities:

- O&M operations including field and control room activities
- 24/7 shift operations
- Real Time Permit to Work enactments
- Start up / Shutdown
- Fault finding
- Emergency Shutdown
- Emergency Response Drills
- Effective communication protocol
- Effective Leadership and team building development
- Graduate Work Experience Programmes



### Kumul and ExxonMobil Trainees







## Kumul Petroleum Academy: Outcome Driven, Guided by Competence Assurance

### Junior Instrument Technician: Target Competence Profile : SLPP



Name:		Department:							
Category	Training / Coaching Subject	Training/Coaching Intervention	K	S	A	Evidence and Proof Points	Unit Code	Unit Code	
Safety and Induction	Medical Examination	Sgi Medical Standards	✓			Current Medical Certificate	SGI-O&M-SI-A-001		
	HSE Induction	Sgi HSE Induction	✓			Record of Attendance	SGI-O&M-SI-A-002		
	Facility Induction	SLPP Induction	✓			Record of Attendance	SGI-O&M-SI-A-003		
<b>Training and Coaching Against Emergency Response Plans</b>									
Emergency Response	First Aider	In House Training & Exercises			A	Assessment and Sign Off	SGI-O&M-ER-A-001		
	Emergency Response Team Member	In House Training & Exercises			A	Assessment and Sign Off	SGI-O&M-ER-A-002		
<b>Training and Coaching Against Control of Work Processes</b>									
HSE Critical	SGI Golden Rules	Training , Coaching and Assessment	K			Competence Assessment and Sign Off	SGI-O&M-HSE-K-001		
	Safe System Of Work	Permit to Work	Training , Coaching and Assessment			A	Competence Assessment and Sign Off	SGI-O&M-HSE-A-001	
		Task Risk Assessment	Training , Coaching and Assessment			A	Competence Assessment and Sign Off	SGI-O&M-HSE-A-002	
		Safe Isolation	Training , Coaching and Assessment			A	Competence Assessment and Sign Off	SGI-O&M-HSE-A-003	
		Lock Out Tag Out Systems (LOTO)	Training , Coaching and Assessment			A	Competence Assessment and Sign Off	SGI-O&M-HSE-A-004	
	Confined Space Entry	Training , Coaching and Assessment			A	Competence Assessment and Sign Off	SGI-O&M-HSE-A-005		
	Gas Testing	Training , Coaching and Assessment			A	Competence Assessment and Sign Off	SGI-O&M-HSE-A-006		
	Working at Heights	Training , Coaching and Assessment			A	Competence Assessment and Sign Off	SGI-O&M-HSE-A-007		
	Manual Handling	Training , Coaching and Assessment			A	Competence Assessment and Sign Off	SGI-O&M-HSE-A-008		
<b>Scenario Based and Work Place Re Enactments</b>									
Behavioural	Report	Process Conditions, Plant Changes, Critical Activities, Operational Activities, Daily Activities	Coaching and Assessment	✓		Observation Report and Assessment and Sign Off	SGI-O&M-BHV-A-001		
	Record		Coaching and Assessment	✓		Observation Report and Assessment and Sign Off	SGI-O&M-BHV-A-002		
	Monitor		Coaching and Assessment	✓		Observation Report and Assessment and Sign Off	SGI-O&M-BHV-A-003		
	Communicate		Coaching and Assessment	✓		Observation Report and Assessment and Sign Off	SGI-O&M-BHV-A-004		
	Conduct		Coaching and Assessment	✓		Observation Report and Assessment and Sign Off	SGI-O&M-BHV-A-005		
	Generate		Operational related Documentation, Daily Documentation, Monthly Documentation	Coaching and Assessment	✓		Observation Report and Assessment and Sign Off	SGI-O&M-BHV-A-006	
	Team and Self	Personal Initiative, Problem Solving, Communication, Concern in the Workplace, Team Leadership	Coaching & Assessment	✓		Observation Report and Assessment and Sign Off	SGI-O&M-BHV-A-007		



# Kumul Petroleum Academy: Outcome Driven, Guided by Competence Assurance

Aptitude and  
Psychometric Testing



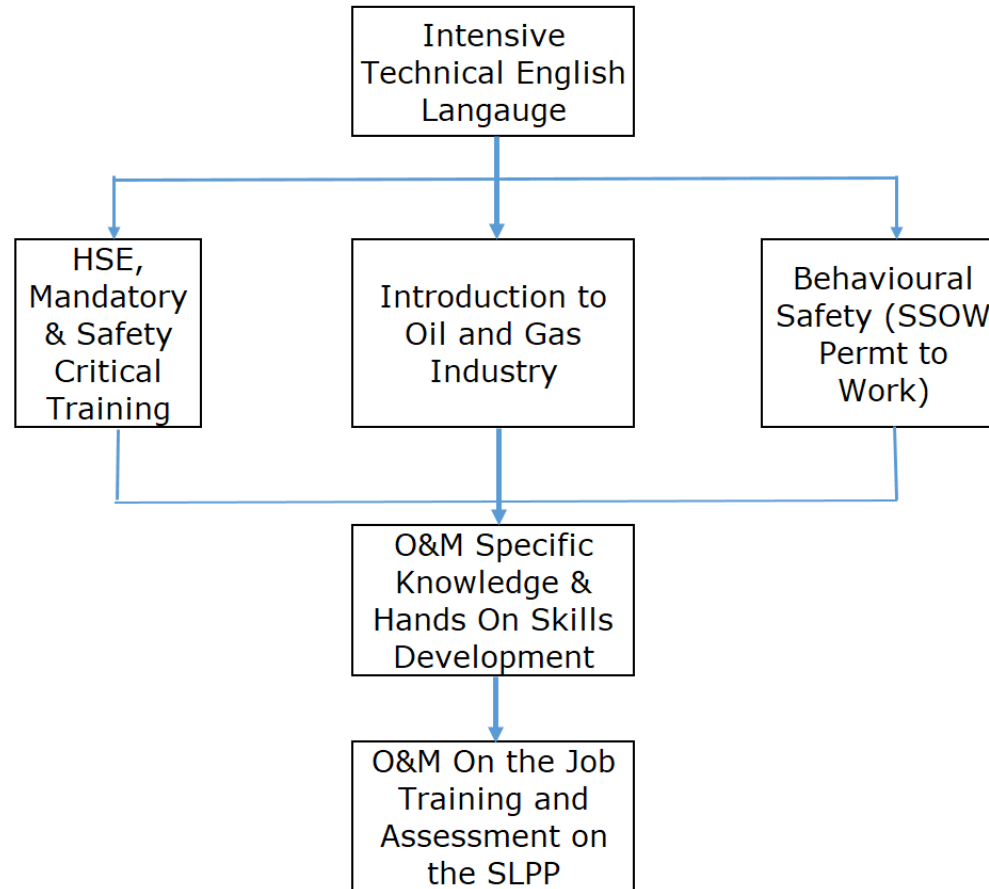
Training Classrooms and Workshops	Live Safe Process Plan		
Training	Coaching / Plant Training	Assessment	
Training Courses	Application of Knowledge and Skills in industrial Environment	Competence Assessments	
Principles Underpinning Knowledge and Skills Training	Integrated Training	Task Based	
Knowledge and Skills Assessment		Experience Level	
			Site Competent

Reduced Duration





## Kumul Petroleum Academy: Outcome Driven, Guided by Competence Assurance





## Kumul Petroleum Academy: Blended Learning Classrooms: Foundation Knowledge and Skills Development







## Kumul Petroleum Academy: Technical Workshops: Core and Specific Skills Development





## Kumul Petroleum Academy: Technical Workshops: Core and Specific Skills Development







## Kumul Petroleum Academy: Full Scale Safe Live Process Plant





## Kumul Petroleum Academy: Full Scale Safe Live Process Plant







## Kumul Petroleum Academy: Full Scale Safe Live Process Plant







# Kumul Petroleum Academy: Full Scale Safe Live Process Plant : Real Process Equipment







# Kumul Petroleum Academy: Full Scale Safe Live Process Plant: Real Process Equipment





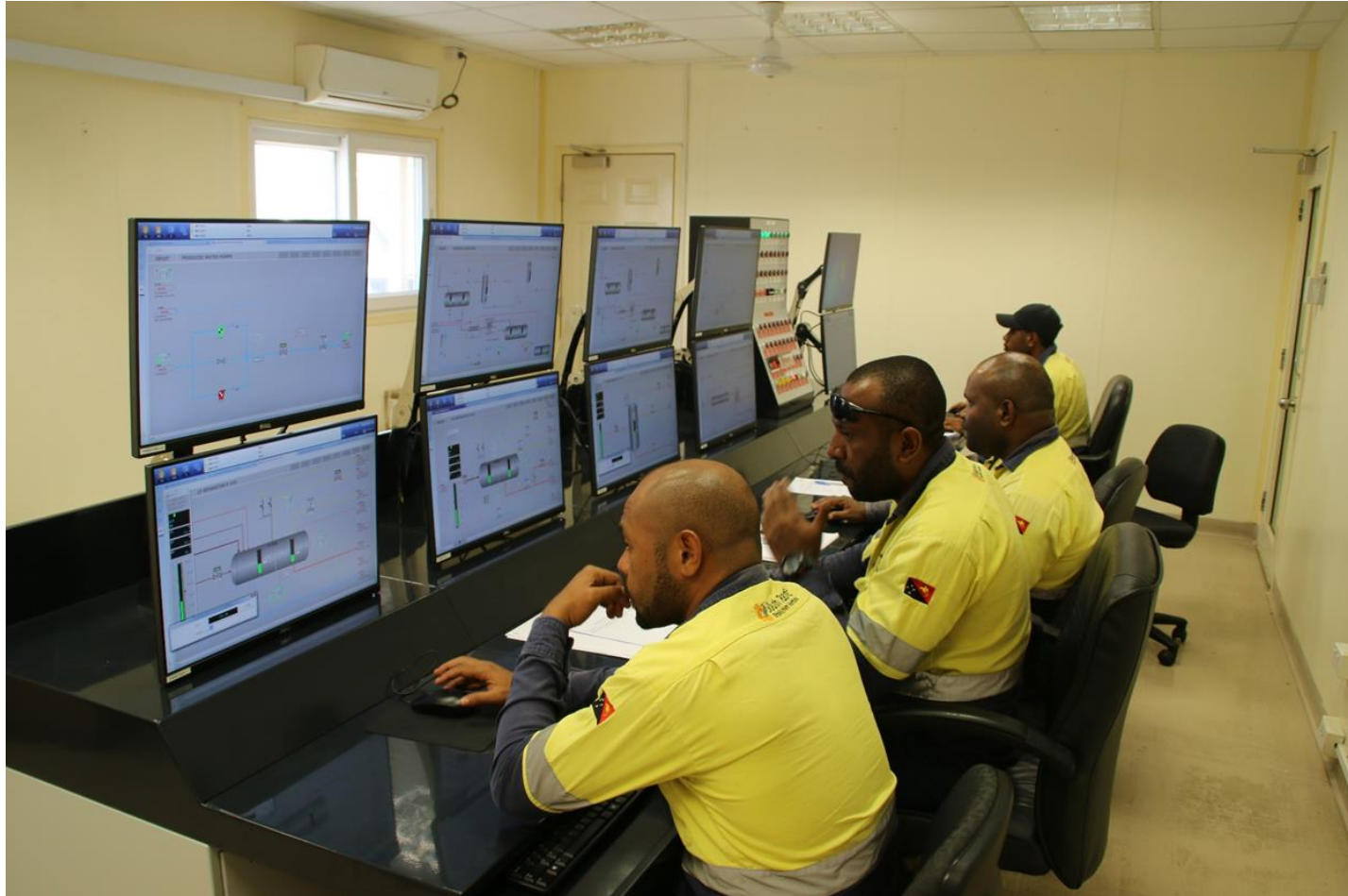
## Kumul Petroleum Academy: Full Scale Safe Live Process Plant: Latest “State of the Art” Centralised Control Room







## Kumul Petroleum Academy: Full Scale Safe Live Process Plant: Latest “State of the Art” Centralised Control Room





## Kumul Petroleum Academy: Full Scale Safe Live Process Plant: Real Electrical Motor Control Centre (MCC)







Kumul Petroleum Academy: Full Scale Safe Live Process Plant  
Real Hands On Training, Coaching and Assessment: Instrumentation,  
Electrical and Mechanical





# Kumul Petroleum Academy: Full Scale Safe Live Process Plant Real Hands On Training, Coaching and Assessment: Day and Night







## Kumul Petroleum Academy: Cafeteria, Accommodation and Recreation Areas





## Kumul Petroleum Academy: Great Teamwork, Great Opportunities and Building Great Futures







## Questions...?



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