

# SLB Safe Hands Best Practices



### Introduction

#### SLB

- A global technology company, driving energy innovation for a balanced planet
- Headquarters Paris, London, Houston and The Hague
- With operations in 120 countries
- 95,000+ employees
- Diverse workforce with 160 different nationalities.

















### Surface Singapore

- Operational since 1973
- Asia & Middle East Hub
- 400 Employees
- Heavy Equipment Manufacturing Facility (Machining, Welding, Assembly & Test, R&D)
- Certificated for API 6A / 16A / 17D, ISO 9001 / 3834 / 45001 / 14001, and ATEX









### Plant Overview

- Full Function Surface Facility
  - Commercial
  - Project Management
  - Engineering
  - Materials
  - Finance
  - HR
  - Manufacturing
- Asia and Middle East Hub
  - Predominantly Surface
     Production Systems Plant
  - Housing various business lines: Surface
  - OSS Engineering
  - MPS
  - Corporate

Facility Specific	cation & Capabilities
Footprint (sq.ft.)	217,906 Workshop 89,506 Office 570,000 Total
Lifting Capacity	40 Tons
Special	R&D, DCOE
Machining	25 CNC
Welding	14 TIG 7 Fabrication
Quality	IUT, PMI, NDE
Testing	Hydro (35K PSI) Gas (20K PSI)
Functional Test	2 SUT/SIT/FAT









### Products

Primary Products						
Туре	Range					
Critical Service Full Clad Equipment	Full Range					
Gate Valves	1"-9"					
Stack Trees	2"-9"					
Block Valve Trees	2"-9"					
Conventional & SSMC Wellhead	7"-21"					
Tubing & Casing Hanger	7"-22"					
Fastlock & Clamp Connectors	Full Range					
Mudline Systems	18"-7"					
Digital Products	Full Range					

API 6A Material Class	AA – HH			
Pressure PSI	3K – 20K			
PSL	1 - 4			













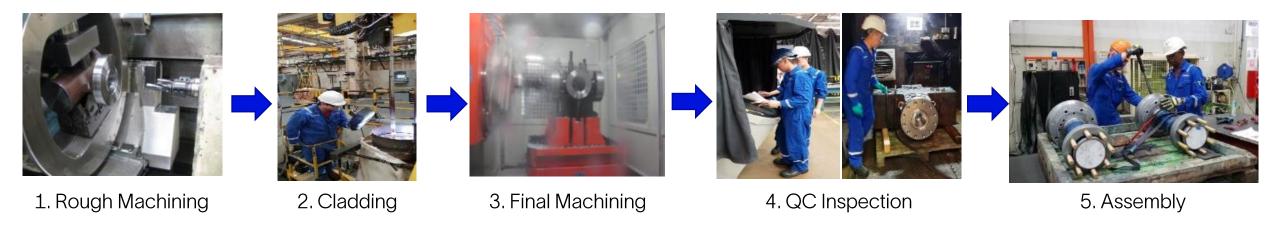








# Typical Manufacturing Flow







6. Hydro Test

7. Gas Test

8. Painting (External)

9. Final Inspection & Shipment

# SLB Safe



An ambition enabled by a set of **programs**, **tools and initiatives** that fit into one or more of these four pillars:

1

HSE Leadership (The shadow you cast)



2

Employee Engagement (Human behavior)



3

Training & Reporting (Situational awareness)



4

Compliance (Procedural adherence)



Line Management

**HSE Function** 

# SLB Safe Pillar #1- HSE Leadership (The shadow you cast)



EEK 09) (RIRR = 10)										Las t updated:	1-Mar-23
				-			900	<b>3</b>	8		
Key Leading Activity	Target	Jeanine Alexander	Lim Beng Hwee	Huang Wenze	Teo Beng Hook	Ho Hao Ming	Wang Jinsong	Mehta Teena	Lau Hong Chee	Christine Loh	Ng Kang Teo
		Manager (SUR Plant)	Manager (Maintenance)	Manager (Manufacturing)	Manager (A&T)	Manager (Warehouse)	Manager (Mfg Engineering)	Manager (Quality Control)	Manager (HSE & LEAN)	Manager (Center Planning)	Manager (Materials)
Overall Training (OTC)	95%	100%	100%	96%	100%	100%	100%	100%	100%	100%	100%
HSE Engagement	12/year	2	3	3	2	2	5	2	5	2	2
Checklist / CAT	1/mth		,							Ĩ	
Total HSE Reporting											
RIR		7	6	4	7	3	2	5	23	0	0
O/I (min. 2/mth)	60/year	15	4	8	4	7	20	5	5	11	10
Total HSE Reporting YTD		22	10	12	11	10	22	10	28	11	10
				3						3	9
Key Leading Activity	Target	Raymond Tay	Lau Yee Leng	Tan Heng Yee	Vineeta Nair	Yan Chee Meng	Tang Nai An	Lena Chng	Tyler Wong	Johns on Koa	Soh Pheng A
		Manager (ENG APME)	Manager (Project)	Manager (Project)	Manager (HR)	Manager (Finance)	Manager (Quality)	Manager (Quality)	Manager (Costing)	Manager (SUSS)	Manager (D COE)
Overall Training (OTC)	95%	100%	97%	100%	96%	100%	100%	100%	100%	100%	100%





Weekly Management Walk



Management Engagement





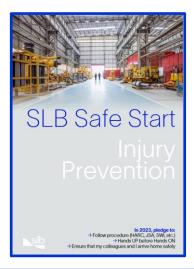


### SLB Safe Pillar #2 – Employee Engagement (Human Behavior)

**Employee Engagement** 













#### **Leadership Presence** "Boots on the Ground"

Conduct Safety Meeting to communicate this Hand & Finger Safety campaign and reinforce key take-away, and record in QUEST

#### Conduct weekly Walk-Around

- ✓ Hand & Finger Safety ✓ Machineries/tools/equipmen

- Engage with employees; Encourage RIRR, address safety concerns and re-emphasis STOP the job
- Review/Update existing HARC related to medium and high-risk



Organize location weekly Hazards Hunt with focus on Hand & Finger risks

☑ Life-Saving Stop-the-Job Meetings

☑ Utilize Step Back 5x5 / Step 7 Safe Work Process prior to start work





ASIA Hand & Finger Safety Campaign QUEST Certification

Hand Injuries & Awareness Part 1,2,3 & 5 (>98%)

Hand Safety Focus & Awareness (Part 4) Certification Assigned in



Commentary Task Assessment (CTA) (>98%)

Full Compliance to Std 03 PPE ✓ Std 17 Injury Prevention



Asia Hand & Finger Safety Campaign 2022

CSUR Facility, Singapore

☐ We shall adhere to the Life-Saving Rules

Personal Pledge for Safe Hands







# SLB Safe Pillar #3 – Training & Reporting (Situational Awareness)







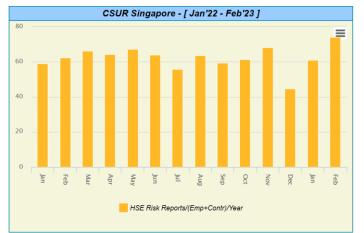










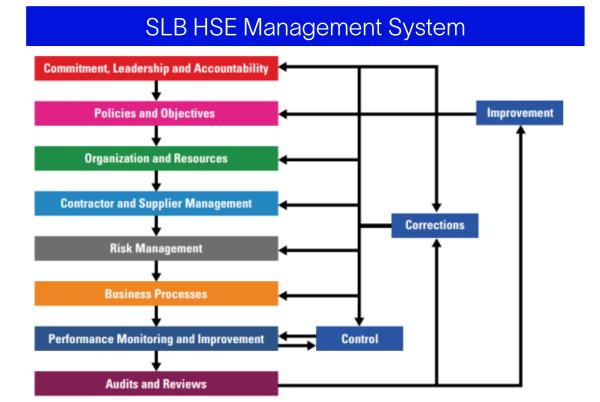






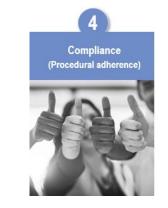
Our HSE Leading Indicator...
HSE Reporting & Training Coefficient

# SLB Safe Pillar #4 - Compliance (Procedural Adherence)

















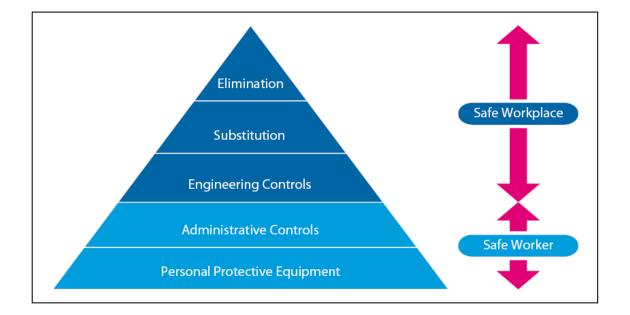




### Risk Management

Where there is a risk of exposure to hazardous energy which can cause injury, the risk of harm must be controlled or eliminated.







### Controls – Interlocking System, Guard & Shield



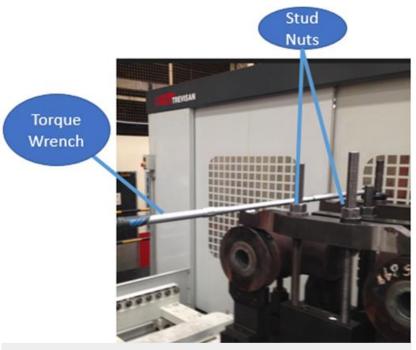




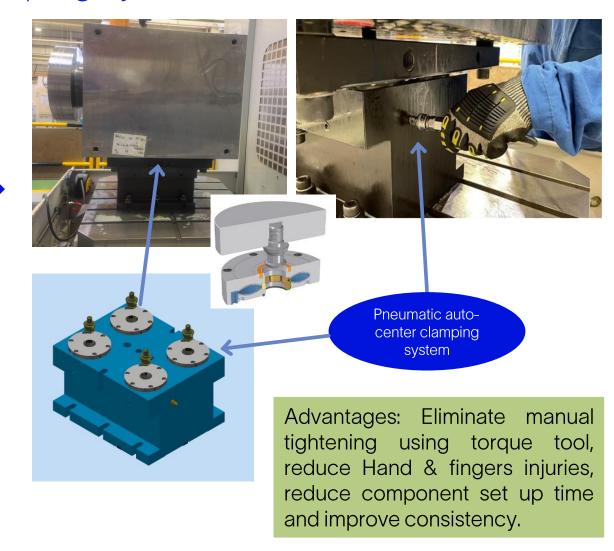




### Controls – Pneumatic auto-center clamping system



Potential Risks: Hand & fingers injuries (caught in-between, cut by sharp object) poor ergonomic due to repetitive clamping motion and improper length of the hand tool use





### Controls – Torque tool safety feature



Potential Risks: Pinch point and cut to non-dominate hand & fingers.

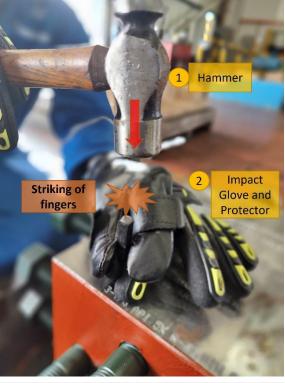




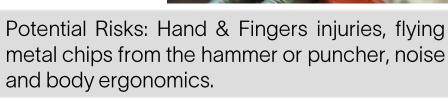
Advantages: Eliminate injury to non-dominate hand and fingers.

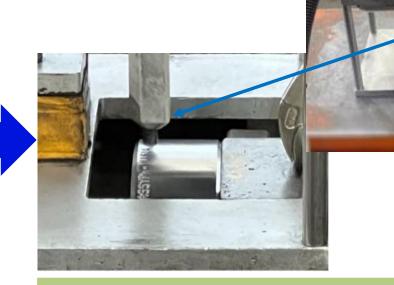
### Controls – Deep Stamping Machine





metal chips from the hammer or puncher, noise and body ergonomics.

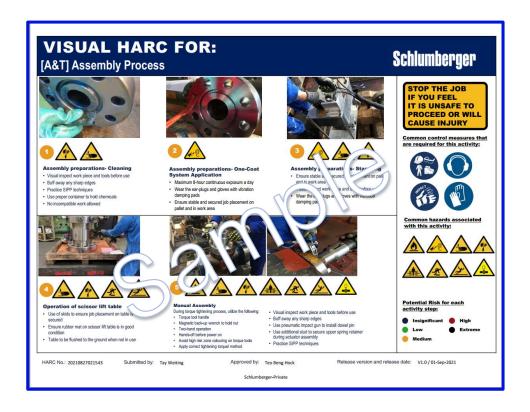




Advantages: Eliminate Hand & Fingers injuries, Improve productivity with better consistency in the stamping depth and cost reduction on rework.



### Controls – Administrative & PPE













Impact Gloves



Cut Resistant Gloves



Chemical Resistant

### 2021 Hand Safety Campaign Video by SET



