ASL GLOBAL

OVERVIEW

ASSEST MANAGEMENT – ENERGY

OVERVIEW

ASL Global is an engineering and management consultancy based in the UK. We provide specialist training, consulting and turn-key solutions to energy companies enabling enhanced performance of staff and assets ultimately saving cost and improving revenue.

As you will agree that the energy sector today is changing faster than in decades, which offers both challenges and opportunities for businesses. We are well positioned to help you identify improvement opportunities, mitigate against risk and implement best practice.

Experience has shown us that energy businesses are losing significant sums of money due to poorly integrated management systems and over reliance on suppliers and original equipment manufacturers (OEM) for technical solutions.

We provide an effective alternative, we are independent, professional and conceive your business holistically resulting in sustainable savings and improvements.

Our team of experts works with leading companies around the world including Maersk Oil, EDF, Eskom and GE. Through our collective expertise we can help you on your journey to reduce cost and enhance stakeholder confidence.

We tailor our services to meet your business objectives and offer the following training and consulting services -

1. Asset Management
2. Change Management
3. Engineering
4. Environmental Management
5. Project Management

Please feel free to pursue through our website - www.aslglobal.co.uk

– TOGETHER –
WE BUILD A BETTER
AND CLEANER WORLD

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1. SCOPE OF SERVICES
| WHAT WE DO |

ASL Global provides specialist engineering and management services across a range of competencies necessary to support the safe and reliable operation of energy facilities and business including power plants and oil and gas facilities.

Our clients recognise the need to change in order to achieve their desired enhancement in the following -

- Plant, process and people;
- Organisational culture;
- Compliance with company policies and standards.

We help our clients -

- Identify the key risks and opportunities.
- Prioritise the risks and propose a staged (immediate, short, medium and long-term) improvement plan.
- Develop a roadmap to deliver continuous improvement through an integrated asset management approach.

2. OUR APPROCH
| SIMPLE, SMART, SCIENTIFIC, SUSTAINABLE |

Integrated Asset Management
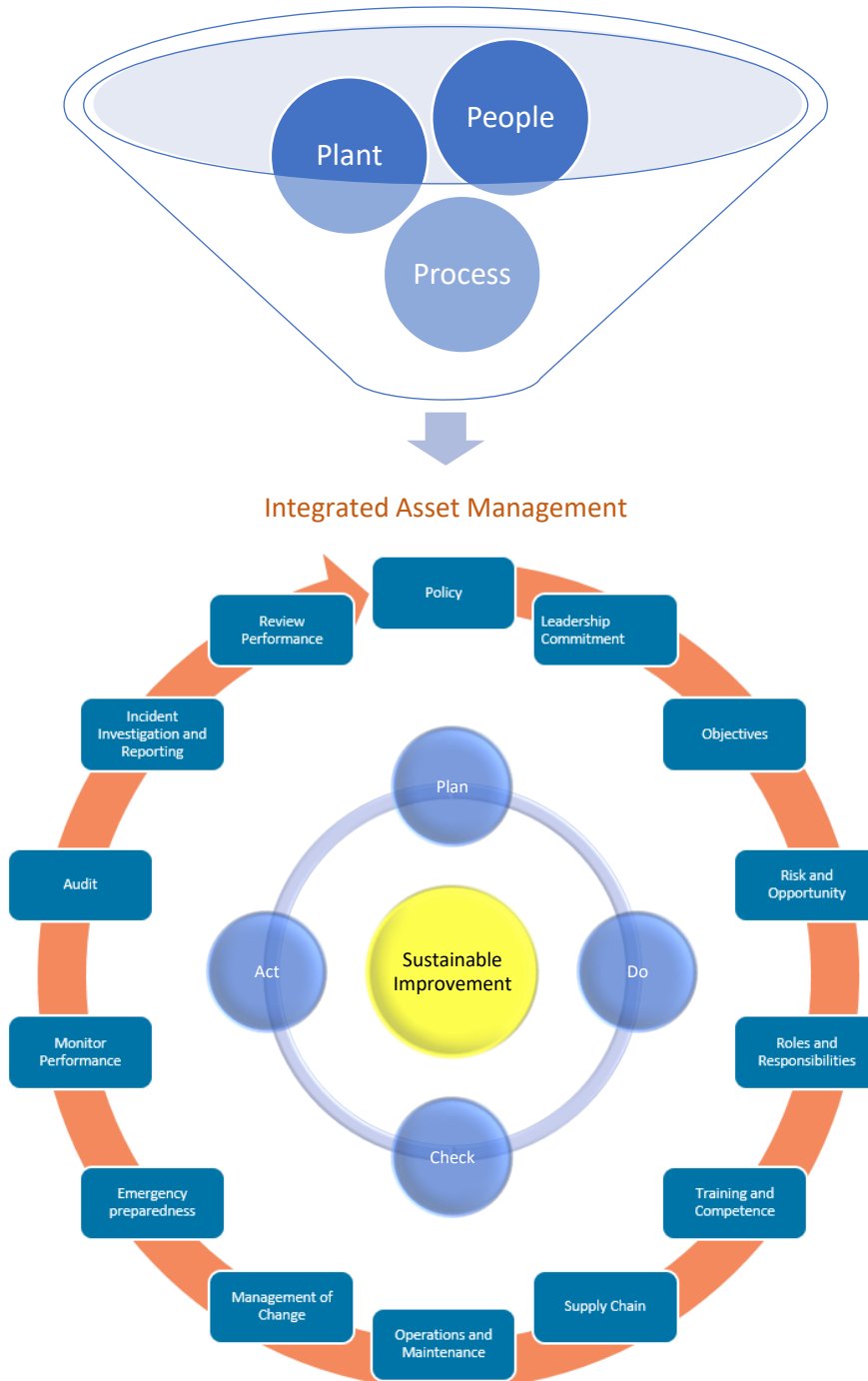
3. ADDED VALUE
| SAVING COST AND IMPROVING REVENUE |

Training

1. We do not only impart knowledge but share experience.
2. We take a fresh approach to learning by making our content simple and easy to understand, yet based on established methodologies.
3. We remain committed to helping our delegates long after the course is over to ensure they can get support when applying learning.
4. Based on practical exercises to gain a 'hands-on' perspective.
5. We tailor our courses to your organisational needs.
6. All our training can be directly applied to your business ensuring a return on your investment.

Consulting

7. We at ASL Global provide a fresh perspective to businesses in making long-term sustainability choices.
8. We spend the time to understand your problem and provide specific solutions.
9. We take a holistic approach to business and focus on the integration of business process.
10. We are system thinkers.
11. Our team of experienced professionals help business in reducing cost and enhancing business performance.
12. We follow up on progress and ensure that support is rendered to deliver against objectives yielding profits and success in your business.

4. Examples

| How we help our clients |

A staged approach is proposed in dealing with the following focus areas depdning on the clients specific requirements:

1. Process Safety
2. Policy and Procedures
3. Competency Management
4. Work Management
5. Outage/Shutdown
6. Equipment Reliability
7. Plant Design
8. Contractor Management

1. **Process Safety (e.g. Fire and Explosion)**

Action required	Delivery Methodology
Develop a 'Process Safety Management Framework' f	Develop a management instruction on how major process hazards (e.g. fire and explosion) are managed.
Process Safety Assessment – Identify Major Accident Safety Hazards	Workshop with management and staff (operations and maintenance) to map-out the scenarios that link to the sites Major Accident Hazards. This will be based on COMAH (Control of Major Accident Hazards) Regulations, 2015.
Perform an assessment of each MPSH scenario.	Develop 'Bow-tie'/HAZOP for each MPSH scenario, linking the hazards with the prevention and mitigation layers.
Implementation Plan	Develop an action plan with agreed action owners and delivery dates.
Audit	Audit against the 'Process Safety Management Framework' and 'Fire and Explosion' guidance.
Review	Review the MPSHS periodically to ensure that preventions and mitigations are still suitable. The bow-ties (or HAZOPs) should be reviewed every 5 years or when there is a change.

2. Policy and Procedure

Action required	Delivery Methodology
Develop a 'Physical Asset Policy'	Develop 'Physical Asset Policy' based on the widely recognised Plan-do-Check-Act cycle of management. Aligned to the client 'HSE Management Policy' this document will follow the principles of ISO 55001.
Training and Implementation Plan	Facilitate workshop with the client management team to develop and agree on an implementation plan for the 'Asset Management Policy'.
Implement Action	Monitor the actions as agreed in the implementation plan through the action owners and delivery dates.
Internal – OHS Audit	Carry out an audit against client policies and procedures
Audit	Asset Management system audit against the 'Physical Asset Policy'
Review	Periodically review the 'Physical Asset Policy' to ensure alignment with company Management Policy. At least every 5 years or if there is a change.
Engineering Policy and Guidance documents	Develop and maintain a suit of engineering policy and guidance documents to enable the client to effectively manage their major technical risks and hazards associated with the plant. The document system will include: • Bi-annual review • Periodic updates relevant to the station (current good practice) • Access (read-only) to documentation and updates via electronic supply media.

3. Talent and Competency Management

Action Required	Delivery Methodology
Develop a 'Talent Competency Framework'	Develop a 'Talent Competency Framework'. This aim of the framework is to help the client develop and retain 'Suitably Qualified and Experienced Persons' (SQEP). (Ref Standards – BS EN 15628:2014 and Managing competence for safety-related systems Guidance 2007)
Develop Role Specific Competency Plan	Developing SQEP packages for each role. This will include performing training needs analysis, creating suitable training plan and schedule, assessment and sign-off.
Monitor	Line Manager to monitor the progress of staff against the training plan.
Audit	Audit against the 'Talent Competency Framework' to give confidante that the objectives are being met, and initiate improvement actions where appropriate.
Review	Review the changes and competence failures and initiate improvement action where appropriate.

4. Work Management

Action Required	Delivery Methodology
Develop a 'Work Management (WM) Governance Procedure'	Develop a 'Work Management Governance Procedure'. This will include requirements for planning, sequencing and interfacing work, and incorporate Key Performance Measures (Ref – CDM Regulations, 2015). This process will help streamline the CMMS implementation and help effective defect management.
Training/Workshop	Provide 2-day training to all maintenance and operations staff in the execution of activities in accordance with the WM Governance Procedure.
Audit	Audit against the WM Governance Procedure and initiate improvement actions where appropriate.
Review	Periodically review the WMS Governance Procedure.

5. Outage/Shutdown

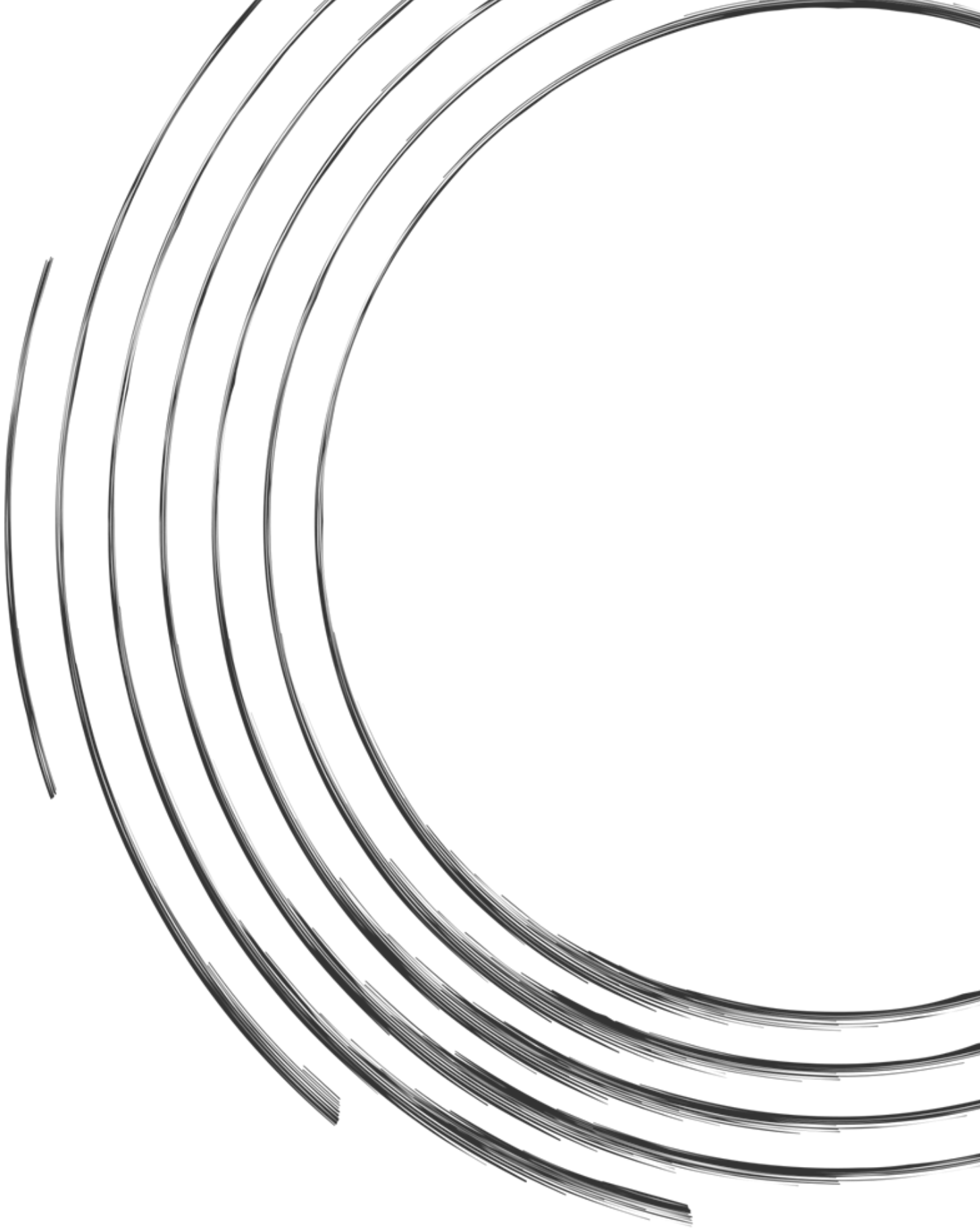| Action required	Delivery Methodology
Outage Readiness Review	Perform an outage readiness review for the next outage. The aim of this 2-day review is to check the preparedness of the site to delivery their first major outage. The activity level during this period will be much higher than normal with high-risk non-routine activities being performed.
Develop a 'Project Delivery Procedure'	Develop an 'Outage and Project Delivery Procedure'. The aim of this procedure is to help the client define the processes that are performed throughout the life-time of the asset (e.g. repairs/outage/shutdown).
Project Management training	2-day appreciating training for Engineers and Managers providing the knowledge and tools to initiate and manage workplace projects.
Audit	Audit against the requirement of the Project Management Framework Procedure'.

6. Equipment Reliability

Action required	Delivery Methodology
Develop an 'Equipment Management Framework'	Develop an 'Equipment Management Framework' to maintain the reliability of the facility which is essential for controlling HSE and commercial risk.
Equipment Criticality Analysis	Evaluate client plant information based on risk (e.g. safety, downtime, ease of maintenance, cost and environment) to determine equipment criticality.
Maintenance Strategy	Develop a suitable maintenance strategy for equipment based on criticality. This will include the use of tools like FMEA in the development of maintenance strategies.
Equipment Failure Investigation	Apply suitable RCA technique (e.g. Barrier Analysis, FTA, ETA) to investigate equipment failure and recommend suitable corrective actions to prevent re-occurrence.
Implement Strategy	Ensure that equipment management strategies are implemented (e.g. captured within the CMMS).
Audit	Audit against the requirement of the Equipment Management Framework.
Review	Periodic review of the 'Equipment Management Framework'.

7. Plant Design

Action required	Delivery Methodology
Perform a 'Human Factors' assessment	Carry out a Human Factors review against 'Human Factors Best Practice' (Ref Standard – HSE RR 001)
Design Control	Develop a company process to ensure that a consistent and fit for purpose engineering approach is adopted across the business. This will aid the effective configuration and interface management through the asset lifecycle.
Develop 'Plant Modifications and Simulations Procedure'	Develop a procedure for plant modifications and simulations to ensure a safe system of work including controls and risks assessment.
Implement Improvements	Develop an action plan implement improvements as required.

8. Contractor Management

Action required	Delivery Methodology
Contractor Management Training	Deliver contractor management training for all staff who are involved in contracts (e.g. Ref Standard BS EN 13269:2016)
Implement Contractor Management Procedure	Check that the Contractor Management Procedure is correctly implemented.

THANK YOU