

“Maintenance Customized Service”

Speed, Flexibility and Professionalism for OEM, EPC and
Final Customers... with High Quality and Competitiveness!



HSE Services



Basis

Plant Services

HSE SERVICES Overview

- HSE Training Programs
- HSE Supervision/Coordination
- HSE Integrated Management System
- Occupational and Operational Safety
- Environmental Assessment
- Industrial Safety



HSE Training Programs

- **Environmental Management & Pollution prevention and protection techniques**
- **Occupational health and Safety:** training and education on occupational health hazards, safety in the workplaces, ergonomics and human factor-related issues, hygiene and health surveillance
- **Industrial Risk analysis:** overview on methodologies for identification of potential hazards, quantification of the probability of occurrence, consequence assessment for the identified accidental conditions
- **HSE national and international legislation**
- **HSE Integrated Management Systems**



Training Programs

Fundamentals

- Basic Mathematics
- Basic Physics, Petroleum Science Physics and thermodynamics
- Basic Chemistry and Petroleum Science Chemistry
- Basic Mechanics
- Engineering drawing
- Chemical Engineering

 **BASIC:** Basic principle

 **ADVANCED:** Practical Skills

Specializing Subjects

- Corrosion and welding
- Introduction to O&G Plants and Processes
- HAZOP/HAZID: Methodologies and Techniques
- Chemical Risk
- Root Cause Analysis
- Functional safety and Safety Integrity Levels (SIL)
- ATEX Analysis
- Environmental Management & Techniques in operations
- Polluted Sites Remediation
- Oil Spill Management
- Sustainability
- Industrial Hygiene/Toxicology

HSE Supervision/Coordination

- **Support the HSE Manager** and team with planning, coordinating and implementing of effective HSE policies, guidelines and procedures
- **Support to operation team** in all aspects of safety, occupational health, safety and environmental issues developing and implementing specific EHS programs and procedures
- Being responsible of all EHS documentation in order to support the HSE Manager in **ensuring HSE compliance and perform regular HSE audits** in site operations areas
- Ensure **training, tool box meetings and drills** are implemented as part of the company's training and HSE program
- **Conduct HSE trainings** and orientation to all new employees
- Ensure all worksites are **HSE compliant** with company policies and safety standards
- Investigate and complete **RCA in case of injury/accident/near miss** with a final report to be provided to EHS team and site manager



HSE Integrated Management Systems



- **Gap analysis** in order to find problems and deviations in HSE processes
- **IMS HSE Development**, implementation and control in compliance against international standards (ISO 14001; OHSAS 18001)
- **IMS Audit** to prove legislative compliance, Corporate **HSE compliance**, **HSE project compliance**

Occupational and Operational Safety

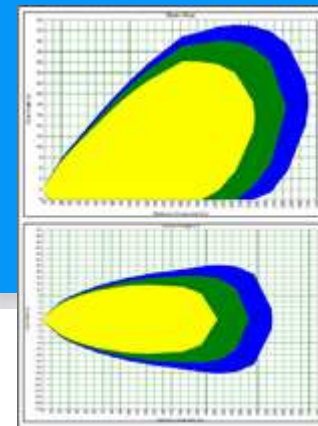


- Screening in accordance with **accident prevention regulations**
- **Risk identification** and assessment for normal operation and constructions
- Support in the **evaluation of accidents** or in occupational diseases and in the organization of first aid
- **Workplace measurements** for noises, lighting, vibrations, electro magnetic fields, ambient climates etc. and assessment of existing test results

Industrial Safety



- Quantitative Risk Assessments (**QRA**)
- **HAZID, HAZOP** Reviews
- **Consequence Modeling and Analyses:** Fire and Explosion Simulation, Toxic Gas, Smoke and Soot Dispersion by means of Computational Fluid Dynamics (**CFD**) or simplified methods (**Phast**)
- **SIL** (Safety Integrity Level), **LOPA** (Layers Of Protection Analysis), **FMEA** (Failure Modes and Effects Analysis) **Studies**
- Bow-tie Analyses
- Fire & Gas (F&G) mapping
- Human Factors Assessment



Environmental Assessment

- (Preliminary) Environmental impact assessment (**PEIA** and **EIA**)
- Environmental, Health and Social impact assessment (**EHSIA**)
- **Integrated Pollution Prevention Control (IPPC) Permitting**: individuation of what authorization can be used, evaluation of the strategy to follow according to the current legislation and development of the most suitable project by locating the possible environmental impacts; proposal of some mitigation measures in order to simplify the permitting processes according to the national legislation
- **Noise & vibration modeling** (3D modelling and mapping)
- **Atmospheric pollutant dispersion modeling**
- **Greenhouse gas emissions assessment**
- **Environmental Due Diligence** in Merge & Acquisition cases



Why HSE SERVICES@Basis Plant Services?

With almost **20** years experience in Oil&Gas installations management and rotating equipment maintenance, shared with **HSE specialists**, allows Basis Plant Services to provide a very high quality services

Furthermore:

- Collaboration with research institutions and Universities guarantees a service which can keep up with the most modern techniques of risk analysis.
- The presence of Basis Plant Services in different operational and international contexts allows to meet the complex needs of all our customers.



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