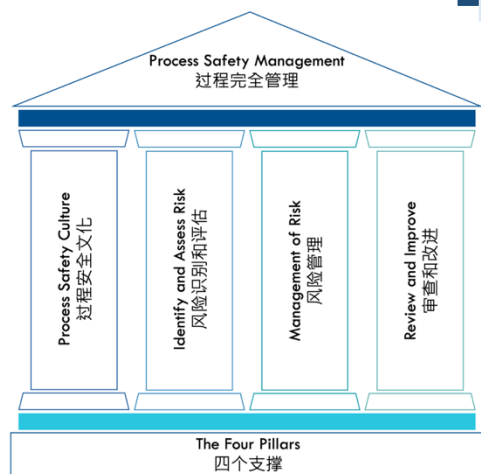


### Process Safety Pillars and Elements

#### 过程安全管理要素



#### Process Safety Culture 过程安全文化

- Identification and compliance with legislation and industry standards  
法规识别合规
- Leadership commitment and responsibilities  
领导引领和责任
- Workforces' involvement  
员工参与

#### Identify and Assess Risk 风险识别和评估

- Identification and assessment  
识别·评价
- Documentation, records, and knowledge management  
记录·管理

#### Management of Risk 风险管理

- Operating manuals and procedure  
操作规程
- Process and operational status  
工艺操作·报警
- Management of Change  
变更管理
- Management of safety critical devices  
安全关键设备管理
- Emergency preparedness  
应急管理
- Pre-Start up Safety Review  
启动前安全检查
- Permit to Work  
工作许可
- Contractor Management  
承包商管理

#### Review and Improve 审查和改进

- Incident reporting and investigation  
事故报告和调查
- Audit, assurance, management review and intervention  
审核·管理审查

### Process Safety Culture

#### 过程安全文化

- Safety culture is the tendency in all of us and organization to want to do the right thing in the right way at the right time, all the time, even when no one is looking.  
安全文化是所有员工和组织在正确的时间以正确的方式做正确的事情的趋势·即使在没人注意的情况下。
- Process safety culture is defined as the combination of group values and behaviours that determine the way process safety is managed.  
过程安全文化被定义为决定过程安全管理方式的群体价值观和行为的结合。

#### Good Process Safety Culture 好的文化

- Common awareness among the team  
共同的团队意识
- Identify and comply with law and regulations  
识别并遵守法律
- Worker's selection and involvement  
员工的选择和参与
- Good communication  
良好的沟通
- Feasible performance indicators  
可执行的绩效指标



#### 安全始于团队合作



如实汇报！

#### Poor Process Safety Culture 不良文化

- Lack of HSE awareness  
缺少 HSE 意识
- Absence of top to down management  
不是自上而下的安全管理
- Establish report for compliance purposes  
为了合规而做报告
- Conduct activities for inspection purposes  
应付检查而进行的工作
- Absence of management towards near miss incident  
对未遂事件缺少管理



### How to Build a Process Safety Culture

#### 如何建立过程安全文化



Step 1: Evaluate risks and existing response plans  
第一步：评估风险和现有的应对计划



Step 2: Set safety goals  
第二步：设定安全目标



Step 3: Ensure everyone is involved and committed  
第三步：确保全员参与



Step 4: Develop emergency response plans and safety responsibilities  
第四步：建立健全安全岗位责任制和应急响应计划



Step 5: Develop and implement safety training programs  
第五步：制定和实施安全培训计划



Step 6: Establish methods of reporting and communication  
第六步：建立汇报和沟通的方法



Step 7: Exchange feedback and monitor your safety culture  
第七步：加强交流和反馈·监督过程安全文化



Step 8: Commit to continuous improvement  
第八步：持续改进

### 10 Seconds Thought

#### 十秒思考



Combining our own positions and thinking from our personal point of view, what can we do to improve the company's process safety culture?

结合自身岗位·从我们个人角度思考·我们可以做些什么来提高公司的过程安全文化？

