



# Operational Excellence Services

Health · Safety · Environment  
(HSE)

Hazardous Area Classification  
Optimization



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# Hazardous Area Classification (HAC) Optimization

Do you have any of these issues?

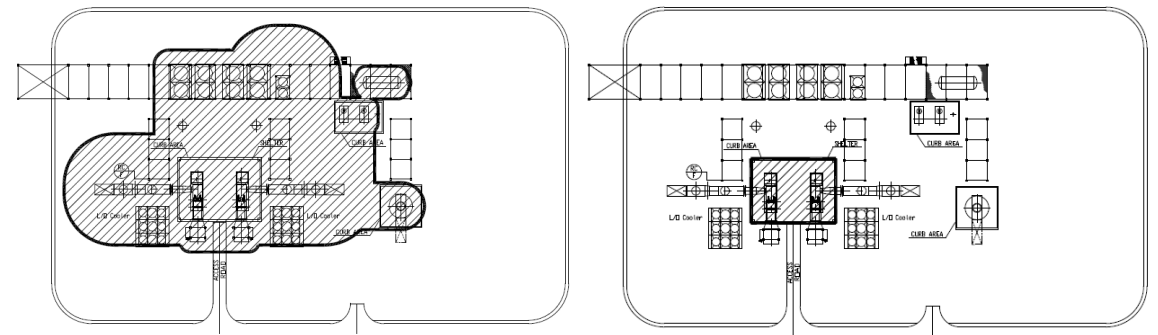
- ☹️ **Cannot use unclassified electrical devices at site**
- ☹️ **Many manual works for inspections and recording**
- ☹️ **Increase cost for inspections and recording**

## HAC Optimization Solution

- Optimize the hazardous area for unclassified electrical device with International Standards (IEC 60079-10)
- Based on the detail analysis, the classified area can be reduced/optimized
- Propose a plan to use unclassified electrical devices to minimize the accident risk



Unclassified electrical devices can not be used in hazardous area



**HAC for permanent items**

**HAC for portable items**

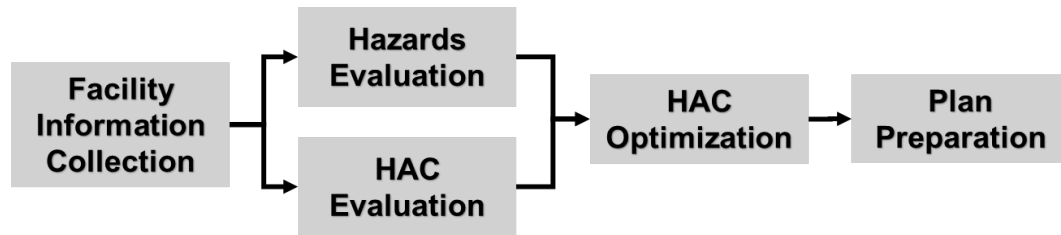
Hazardous Area Optimization for temporary use of unclassified electrical devices

# Hazardous Area Classification (HAC) Optimization

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## Workflow & Result



- Collection of facilities information
- Evaluation of existing hazardous area classification
- Evaluation of potential hazards' magnitude
- Optimization hazardous area classification considering not only hazardous area classification requirements but also potential impact in case of ignition
- Preparation of plan for use of unclassified electrical devices



## Our Strengths

- Professional safety and electrical engineers for not only hazardous area classification but also risk assessment
- Top global experience of hazardous area classification design  
**Plant type** - Refinery, Gas Processing, LNG, Chemical  
**Plant location** – Onshore, Offshore  
**Clients** – IOCs, NOCs
- Wide knowledge for international standard such as, IEC, IP, EI, API, NFPA, JIS, etc.

## Our Experiment

**Hazardous Area  
Classification Design  
Experiences**

**500+ Cases**