



# Operational Excellence Services

**Health · Safety · Environment  
(HSE)**

**Hazardous Area Classification  
(HAC) Optimization**



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# Hazardous Area Classification (HAC) Optimization

## Do you have any of these issues?

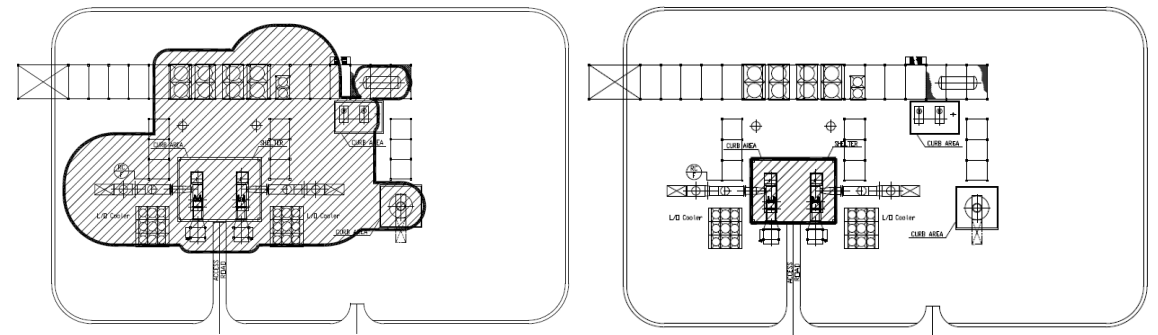
- ☹ **Cannot use unclassified electrical devices at site**
- ☹ **Many manual works for inspections and recording**
- ☹ **Increased cost for inspections and recording**

## 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 or optimized
- Propose a plan to use unclassified electrical devices to minimize the accident risks



Unclassified electrical devices can not be used in hazardous areas



**HAC for permanent items**

**HAC for portable items**

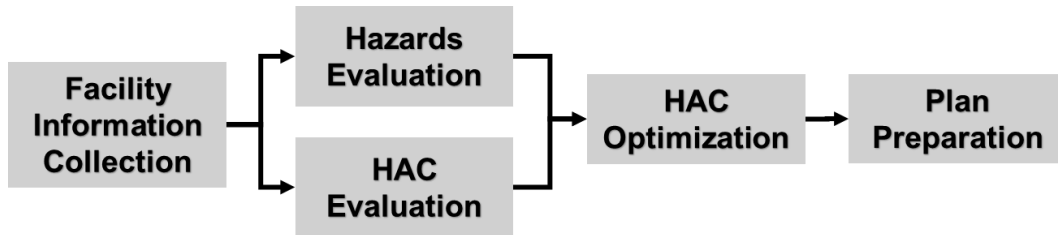
Hazardous Area Optimization for temporary use of unclassified electrical devices

# 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 in hazardous area classification design**  
Plant type - Refinery, Gas Processing, LNG, Chemical  
Plant location – Onshore, Offshore  
Clients – IOCs, NOCs
- **Wide knowledge of international standards** such as, IEC, IP, EI, API, NFPA, JIS, etc.

## Our Experiences

**Hazardous Area  
Classification Design  
Experiences**

**500+ Cases**