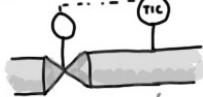


A  
Pre-cautionary
Alpha bet

A 
Asset Integrity
 Understand Failure Mechanisms
 Monitor & Report Condition

B 
Basic Process Control System
 Supports normal production functions

C 
Checklist
 Reduce action-based human errors

D 
Design Basis Information
 -Clarity on how and why designed

E 
EMERGENCY Response
 Scenarios, well-practiced

F 
Failure Mode Effect Analysis
 Types & Effects of component failures

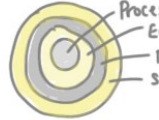
G 
Gas Detection
 Detect Leak
 raise alarm
 Ensure response is clear & understood

H 
Hazard identification
 Facilitated Group structured Review

I 
Inherently Safer
 MINIMISE
 SUBSTITUTE
 MODERATE
 SIMPLIFY

J 
Job Safety Analysis
 • Job steps
 • Hazards & controls tools, ppe
 • Safe procedures
 Keep up to date!
 Competence!

K 
Kaizen
 ⇒ Improvement
 Good Quality & Safety

L 
Layers of Protection Analysis
 Process
 Equip
 BPCS
 SIS
 etc...

M 
Management of Change
 Review & Authorise

N 
Nitrogen Blanket
 Gas added to vapour space prevents formation of explosive/ignitable vapour/air mix

O 
Operating Limits
 Understand
 Operate within safe Limits for plant & process

P 
Pressure Relief
 Ensure designed against MAX case (remember deviations)

Q 
Qualitative or Quantitative Risk Assessment
 What is the purpose?
 {Don't get lost in the numbers}

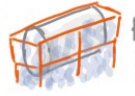
R 
Recognised & Relevant Good Practice
 If practical to apply
Do it

S 
Safety Instrumented System
 Independent from BPCS
 Consider full lifecycle

T 
Thermal Insulation
 Personnel Protection & Heat Conservation
Specify & Maintain properly

U 
Uninterruptible Power Supply
 Allows safe shutdown if power lost

V 
Ventilation
 Prevents buildup of flammable atmosphere

W 
Water Curtain
 Fire or pollutant Cloud Suppression

X 
X-ray
 Non-destructive testing of welds
 Identify fabrication defects

Y 
5 whys
 Explore cause & effect
 Determine Root Cause
 ? ? ? ? ?

Z 
Zonal Hazard Analysis
 interactions between components in same space
 hazards of location
 Impacts on independence

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