



Process Safety Fundamentals

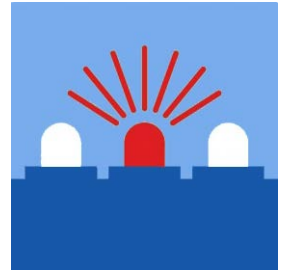
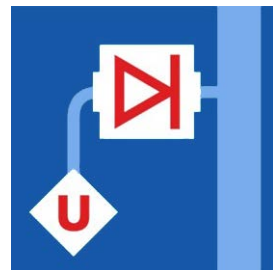
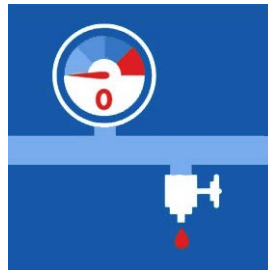
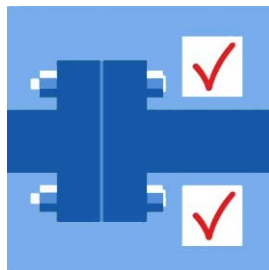
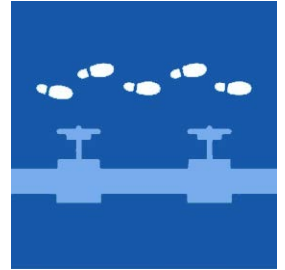
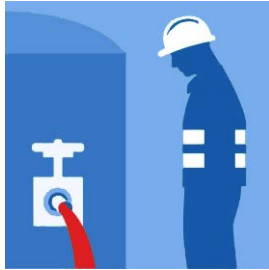
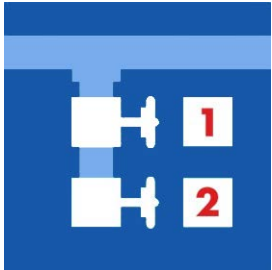
Always use two barriers for hydrocarbon and chemical drains & vents

Do not leave an open drain or critical transfer unattended

Take interim mitigating measures for Safety Critical Equipment failures

For all defined high-risk activities, follow the procedures and sign off after each step

Walk the Line – Verify and validate any line-up change



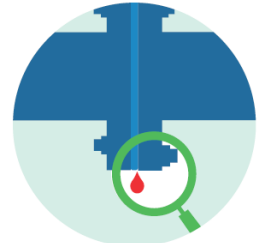
Do not make a change without a proper MOC

Verify for complete tightness after maintenance work

Always check that equipment is pressure free and drained, and provides safe isolation before starting maintenance work

Perform MOC and install backflow protection when connecting utilities to process

Respond to critical alarms



Avoid working behind a single valve

Verify the condition of flexible hoses

Report Process Safety Incidents

Stay out of the Line of Fire

Verify leak tightness after maintenance

PROCESS SAFETY -Control HAZARDOUS material and ENERGY!!!

Prepared by
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