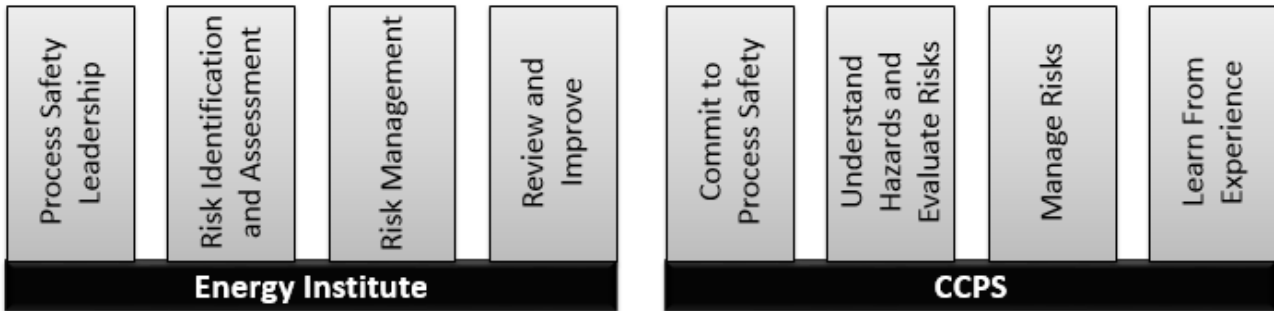


Managing Process Safety – Four Pillars

In recent years we have seen a shift in Process Safety Management within the high hazard sector that provides clear direction on all elements covering Plant, Processes and People.

The Energy Institute and Centre for Chemical Process Safety (CCPS) both identify four accident prevention pillars striving towards the same goal – SAFE PROCESS OPERATIONS.

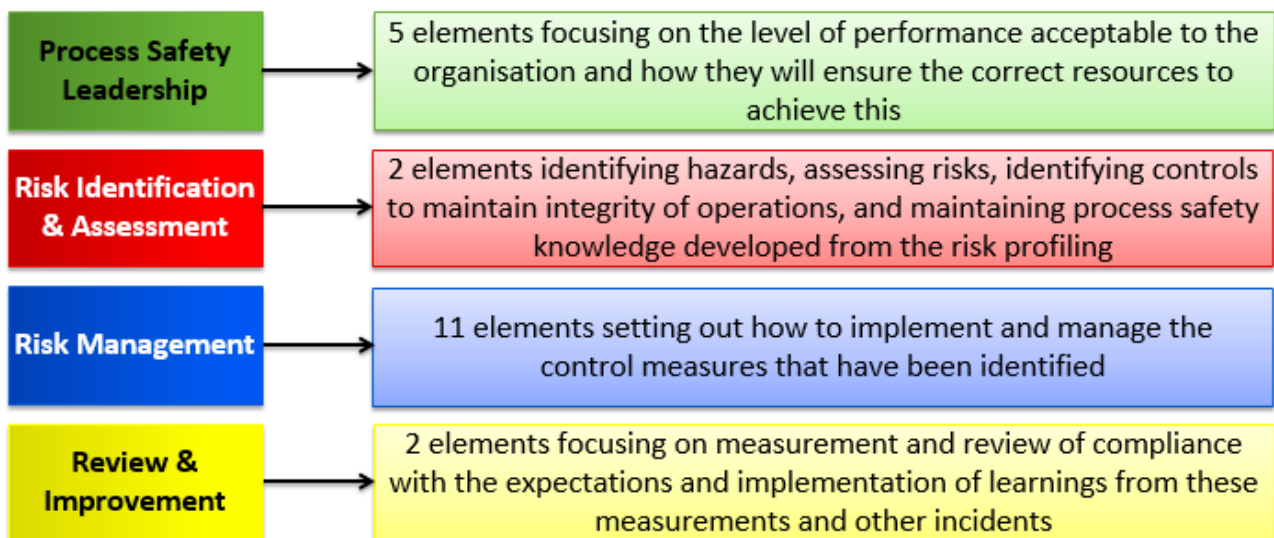


The Occupational Health and Safety Administration (OSHA) also have a 14-point process safety management plan, this is largely applicable to high hazard industries either based in the US, and some UK organisations with boards in the US, are required to commit to these PSM Principles.

Let's look at these different systems before we explore these and see how our standards meet with these guidelines.

Energy Institute

The four Energy Institute accident prevention pillars provide a well-structured system that provides clear direction on all elements covering Plant, Processes and People All ensuring SAFE PROCESS OPERATIONS.



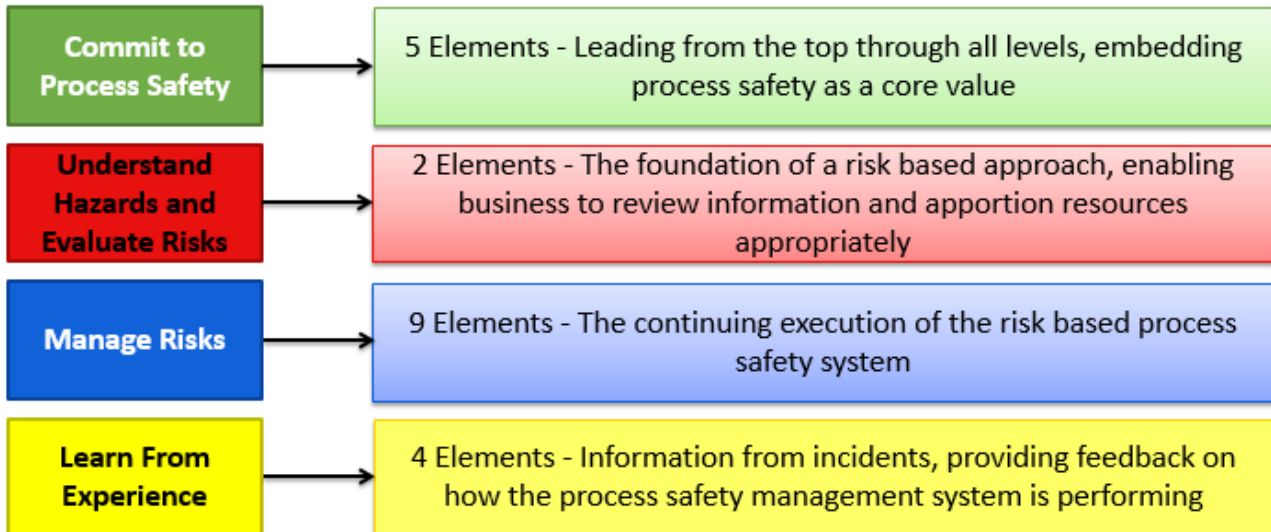
Energy Institute provide twenty elements that expand on the original PSM elements reflecting their comprehensive experience in PSM implementation.

These elements fit within the four pillars and encompass best practice from a large variety of industries / sectors and worldwide regulatory requirements.



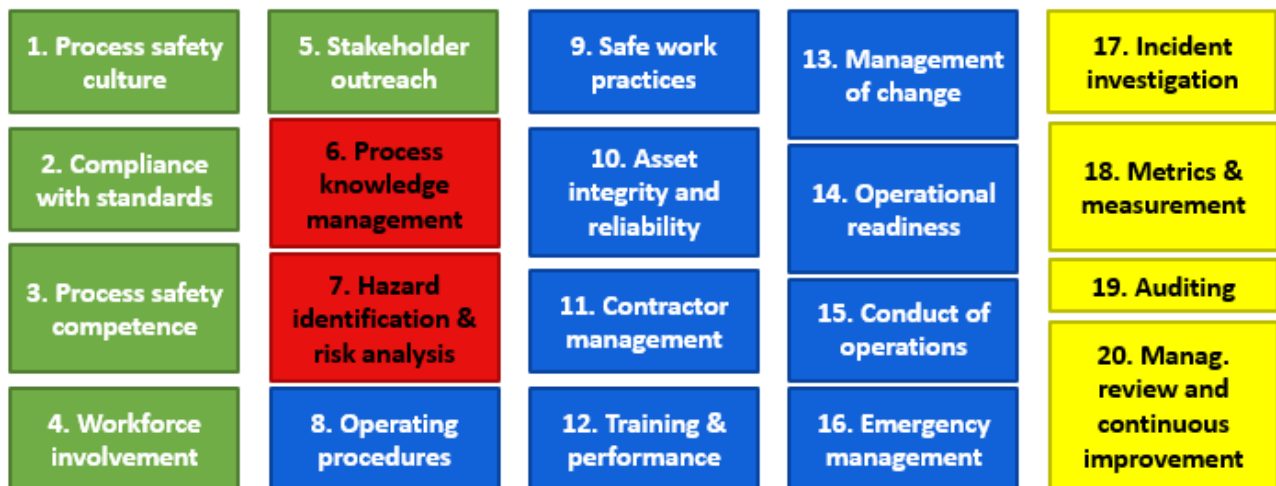
CCPS Four Pillars

The four CCPS accident prevention pillars provide a well-structured system that provides clear direction on all elements covering Plant, Processes and People. All ensuring SAFE PROCESS OPERATIONS.



CCPS provide twenty elements that expand on the original PSM elements reflecting their comprehensive experience in PSM implementation.

These elements fit within the four pillars and encompass best practice from a large variety of industries / sectors and world-wide regulatory requirements.



Occupational Safety & Health Administration PSM Guidelines

The OSHA recommendations serve as a non-mandatory guideline to assist employers and employees in complying with the requirements of this section, as well as provides other helpful recommendations and information.

The major objective of process safety management of highly hazardous chemicals is to prevent unwanted releases of hazardous chemicals especially into locations which could expose employees and others to serious hazards.

