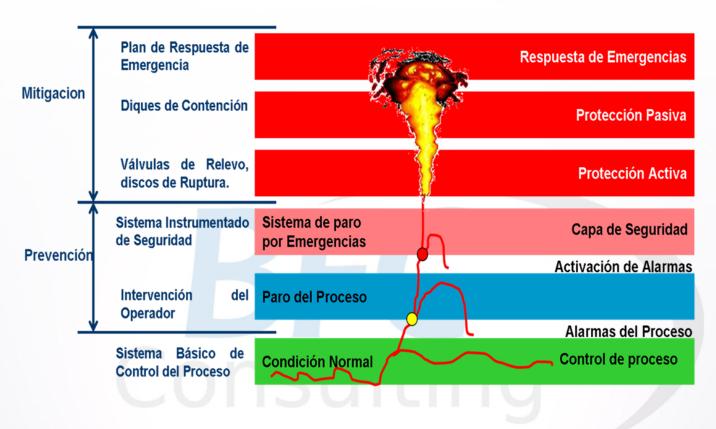# Layers of Protection Analysis (LOPA)

The methodology (LOPA) for "risk assessment" is a method that provides a consistent and systematic evaluation to determine potential risks in unacceptable scenarios evaluated processes, adding protection to bring the process to an acceptable frequency of occurrence (AFO).

This methodology is based on the information generated from the Preliminary Hazards Analysis (PHA) and is used in new or existing projects and/or major modifications according to the life cycle of the SIS (ANSI/ISA S84.01).