



Course Objectives

- 1. Describe the purpose of a Process and Instrumentation Diagram (P&ID).
- 2. Identify the parts of a P&ID.
- 3. Identify symbols and abbreviations commonly used in a P&ID.
- 4. Interpret specific symbols and abbreviations for line names and instrumentation.
- 5. Trace and interpret a process line on a P&ID.



Key Terms (Define the following)

piping and instrumentation diagram (P&ID) -		
block flow diagram		
process flow diagram -		
legend		
interlock -		





1.	List the uses of a P&ID.
2.	Where on a P&ID would you find each of the following?
	P&ID drawing number
	Symbols that represent the equipment and process flow -
	A list of related drawings
	Changes -
	Special comments such as safety information -
	Use the Classroom P&ID, the Symbols Legends, and Identification Letter Table for the questions below.
3.	Describe the function of each of the following:
	TI19 - measures the temperature of the process flow before it enters Process Cooler E-103A
	TI21
	RV6
	LT1 -
4.	From what P&ID does this process flow?

5.	Which temperature indicator measures the temperature in the reactor and sends it to the DCS?
6.	The cooling water flows through what type of manual valve before enter the Process Cooler E103-B?
7.	Identify the only automated valve in this system
8.	What is the function of the software link between LT-1 and LC-1?
9.	Identify one parameter that must be checked by a field operator? 1)