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## SECTION HEADING

### RNEW 1125: P & ID & PFD Reading

#### Description

P & ID and PFD Reading covers the symbols and diagrams commonly used on Piping and Instrumentation Diagrams (P & ID) and Process Flow Diagrams (PFD). Focus will be on identifying the types of diagrams, identifying instrument symbols and line symbols used on P & ID's, understanding the types of information typically found on a legend, using a P & ID to locate the components of a system, and reading a PFD to trace the flow paths of a system.

#### Credits

1

#### Prerequisite

None

#### Corequisite

None

#### Topics to be Covered

1. Technical diagrams used at a process facility
2. Instrument symbols
3. Line symbols
4. Process Flow Diagram (PFD)

#### Learning Outcomes

1. Identify instrument and major equipment symbols.
2. Describe the process flow of a Dry Mill ethanol plant.
3. Identify and distinguish between various diagrams including PFD and P & ID diagrams.
4. Describe in general terms the type of information found on the various diagrams.
5. Distinguish between process lines and instrument control lines used on a P & ID.
6. Identify control loops on a P & ID and describe their function.

#### Credit Details

Lecture: 1

Lab: 0

OJT: 0

MnTC Goal Area(s): None