



C.E.U. **0.6**

LED BY: TBD

## ABOUT THE WORKSHOP

In this presentation and live in the “field” training we will explore the importance to Operations and Engineering of the Process and Instrumentation Drawings (P&ID drawings). As one of the first drawings created during the design process of a Water and Wastewater Treatment Facility, they form the basis of the systems that operate, provide control of, and determine how we can interact with our systems. In this presentation, we will cover:

- Define what a P&ID is
- Describe why they are important to the operation of your facility
- Give examples of when you might use a P&ID
- Use a Master sheet as a reference for identifying P&ID symbols and labels found in line tables, instrument symbols and designations tables, and graphic symbols tables
- Identify the symbols for vessels, compressors, heat exchangers, valves, and pumps
- Interpret an example numbering system used for labeling equipment on P&ID
- Explain why instruments and control loops are important for the safe operation of a plant
- Identify the symbols for selected instruments
- Describe how instruments in control loops are related and named on a P&ID
- Identify piping and give specific information about a pipeline including material in the line, size, line number and whether or not the line is insulated or traced
- Identify pneumatic, electric, and hydraulic instrumentation signal lines
- Trace the flow of a process stream into a P&ID, through the pipes and equipment, and out of a P&ID
- Identify instruments that belong to the same control loop on a P&ID
- Describe how a process variable is measured and controlled by reading a P&ID for the process.

In addition, we will tour an actual Water Treatment Facility and interact with the drawings and update a P&ID drawing.

The course includes one day of instruction, classroom material, and Record of Completion.

## PREREQUISITES

None.

### FEES

Workshop Fee: \$320.00

GST: \$16.00

**Total: \$336.00**

### REGISTRATION FORM

### LIMITED SEATING - REGISTER EARLY!

#### Register Online

MasterCard & VISA accepted



Tel: (306) 244-8828

Fax: (306) 244-8829

Email: lewtyc@ae.ca

#### Register by Mail

Mail completed registration form, with cheque or money order, to:

**ATAP Infrastructure Management Ltd.**  
2225 Northridge Drive  
Saskatoon, SK S7L 6X6

ORGANIZATION/SPONSOR		ATTENDEE	
NAME		NAME	
EMAIL		EMAIL	
PHONE		PHONE	
MAILING ADDRESS			
CITY		PROVINCE	POSTAL CODE

REGISTRATION IS FOR:

May 8, 2025

SASKATOON

ATAP (in Associated Engineering Building)  
2225 Northridge Drive, Saskatoon, SK

*NOTE: CEU Credit is not granted by the Operator Certification Board of Saskatchewan if the same workshop has been taken more than once in two consecutive renewal periods. Workshop runs from 8:30 am to 4:30 pm.*

### **Registration Policy**

Certification and Workshop course registration closes 2 weeks prior to the start date.

No refunds will be provided within those 2 weeks; however, credit may be held for up to 1 year. Students who are absent, without informing ATAP of that absence prior to the course start, will receive a credit, which may be held up to 1 year.

### **Cancellation Policy**

A full refund will be available 2 weeks prior to start, otherwise a credit may be held for the student/organization for up to 1 year.

### **Exam Cancellations During a Course**

Registrants must indicate at the time of registration (whether online or by telephone), the course exams they are writing (both, one, none).

No credits or refunds will be available for exam cancellations once the course has begun.

No examinations can be added during the course.