This Universal Station (US)-based course provides a hands-on introduction to the architecture and operation of the TotalPlant Network (TPN) consisting of the Local Control Network (LCN) and the Universal Control Network (UCN). Standard TPN displays and custom graphic displays are used to control and monitor both analog and digital process points and monitor process alarms.

**Course Overview**

**Course number:** TDC-5900  
**Course length:** 5 days

**Course Benefits**

Use TPS system features to reduce waste and cost
- Gain operational confidence
- Transition smoothly to a new control system
- Use the standard control displays effectively
- Use graphic displays to control and monitor the process
- Interpret process Trend displays for better control
- Use the process and system alarm indications for quicker response to process and system upsets

**Course Delivery Options**

- On-Site Instructor-Led Training

**Who Should Take This Course?**

TPN Operators who
- Require basic Distributed Control Systems (DCS) training
- Need to understand the differences between the US and the Operator Station (BOS or EOS) operating environments
- Need refresher training on the US

**Prerequisite/Skill Requirements**

**Prerequisite Course (s)**
- None

**Required Skills and/or Experience**
- None

**Desirable Skills and/or Experience**
- Working knowledge of your process

**Course Topics**

You will learn how to...
- Load and shut down a Universal Station
- Use standard operating displays including the Group and Point Detail displays
- Operate various UCN point types including PID Controllers and cascades, Digital Composite On/Off controls, Flags, Numerics, Totalizers and Timers
- Use change zones to make process changes
- Identify color conventions
- Identify control conventions (automatic, manual, cascade, PV tracking, and program)
- Navigate through standard operating displays
- Use Alarm displays to identify and respond to abnormal conditions
- Identify and use tools available on the TPN system to analyze process upsets
- Use Point and Group Trend displays
- Load and operate a simple sequence program

**Additional Training**

To increase your knowledge and skills, there are additional courses available from Automation College.