

Workshop 1- Advanced Process Diagnostics for Performance Evaluations

DAY 1

Time	Activity
8:00 – 12:15	<ul style="list-style-type: none"> Continental breakfast (provided) Introductions and workshop overview Pre-workshop quiz
	<ul style="list-style-type: none"> Case study exercise in small teams
	<ul style="list-style-type: none"> Water treatment plant tour
	<ul style="list-style-type: none"> Break
	<ul style="list-style-type: none"> Overview of Comprehensive Performance Evaluations (CPEs) Review of data trending
	<ul style="list-style-type: none"> Team exercise – generating plots and evaluating performance trends
	12:15 – 12:45
12:45 – 5:00	<ul style="list-style-type: none"> Special topic – data security and wireless SCADA
	<ul style="list-style-type: none"> How to evaluate your water plant's capabilities and perform simple process calculations
	<ul style="list-style-type: none"> Team exercise – evaluate real unit processes at the host treatment plant, develop process potential graphs, and present to the class
	<ul style="list-style-type: none"> Break
	<ul style="list-style-type: none"> Interpreting process potential graph results Discuss associated regulatory requirements

DAY 2

Time	Activity
8:00 – 12:15	<ul style="list-style-type: none"> Continental breakfast (provided) Review Day 1 activities and content
	<ul style="list-style-type: none"> Discuss how to identify performance limiting factors (PLFs) in water treatment plants
	<ul style="list-style-type: none"> Break
	<ul style="list-style-type: none"> Review process flow diagrams (PFDs) Identify daily operations checklists
	<ul style="list-style-type: none"> Team exercise – evaluate PLF's on a portion of the host water plant, develop process flow diagram for entire plant, present to class
	12:15 – 12:45
12:45 – 5:00	<ul style="list-style-type: none"> Special topic – pilot plants and other studies
	<ul style="list-style-type: none"> Team exercise – prioritize PLF's
	<ul style="list-style-type: none"> Break
	<ul style="list-style-type: none"> Team exercise – develop plan of correction for PLFs and present to the class
	<ul style="list-style-type: none"> Review workshop materials Complete evaluation form and post-workshop quiz Distribute training unit certificates