



## River City Engineering – Classroom Style Operator Training

### PFD Overview: Training Agenda

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**Course Total: 8 hours**

**A modified short refresher course is eligible for online instruction.**

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|---|-------------------|
| <b>1. Introduction</b>  | <b>10 minutes</b> |
| a. Plant Background & Justification                           |                   |
| <b>2. Overview of Plant</b>                                   | <b>90 minutes</b> |
| a. Block Flow Diagrams  |                   |
| i. Plot Plan – Equipment Locations                            |                   |
| ii. Plot Plan – Flow paths                                    |                   |
| <b>3. Design Basis</b>  | <b>40 minutes</b> |
| a. Inlet Specifications                                       |                   |
| b. Product Specifications                                     |                   |
| c. Treating Specifications                                    |                   |
| <b>4. Design Philosophy</b>                                   | <b>60 minutes</b> |
| a. Overall plant Flow/Pressure/Temperature Control Scheme     |                   |
| b. Flaring/Venting/Draining Design                            |                   |
| c. Valve/Equipment/System Isolation                           |                   |
| i. Identify Critical Alarms and Shutdowns                     |                   |
| <b>5. Safety</b>  | <b>40 minutes</b> |
| a. Safety Equipment Location Plan                             |                   |
| b. Process Fluids   |                   |
| c. Safety Critical Highlights                                 |                   |
| <b>6. PFD Walkthrough</b>                                     | <b>4 hours</b>    |
| <i>The following will be reviewed per PFD, if applicable:</i> |                   |
| a. Flow paths   |                   |
| b. Heat and Material Balances                                 |                   |
| c. Discussion of reasoning behind optimal setpoints           |                   |
| d. Individual system controls                                 |                   |