

Hands-On Control Valve Hydraulics, Operations, Maintenance - Time Outline –

<i>- Time</i>	<i>- Section</i>	<i>Presenter</i>
8:00-8:15	- Introduction	Patrick
	- About Us	
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8:15-8:30	- Basic Hydraulics	Trevor
-	- Why Control Valves	-
-	- Hydraulics 101	-
-	-	-
8:30-9:45	- Main Valve – Hytrol	Patrick
-	- Basic Principles of Control Valves	-
-	- Control Valve Main Body	-
-	- Main Control Valve Components	-
-	- Hands-On Disassembly/Assembly	-
-	- Control valve Main Body Maintenance	-
-	- Main valve Troubleshooting & Start-up	-
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9:45-10:00	- Break (Rough time, may be combined with Hands-On with Valves)	
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10:00-11:00	- Pressure Reducing Valves – Series 90	Trevor
-	- Intro to Pilot Systems	-
-	- Pressure Reducing Valves	-
-	- Hands-On with CRD	-

-	- Troubleshooting Pressure Reducing Valves	-
-	- Pressure Reducing Bypass Design	-
-	- Common Variations (Check, 92-01, 9301)	-

-	- Flow Lab 90-01	-
11:00-12:00	- Pressure Relief Valves – Series 50	Patrick
-	- Pressure Sustaining Valves	-
-	- Hands-on with CRL	-
-	- Troubleshooting Relief/Sustaining Valves	-
-	- Surge Anticipation	-
-	- Flow Lab 50-01 (Time allowed)	Trevor
12:00-1:00	- Lunch	-
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1:00-1:15	- Hydraulic Flow Control	Patrick
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1:15-1:45	- Altitude Valves – Series 210	Trevor
-	- Non-Modulating Valves	-
-	- Float level Control Valves	-
-	- Altitude Level Control Valves	-
-	- Non-Modulating Solenoid Control Valves	-
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1:45-2:15	- Hydraulic Training Lab Exercises (Start up and shutdown)	-
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2:15-3:15	- Pump Control Valves	Patrick
-	- Powertrol Body	-
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-	- Deep Well Pump Control Valve	-
-	- Booster Pump Control Valves	-
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3:15-3:30	- Electronic Control Valves	Trevor
-	- Why Electronic Control Valves	-
-	- Single and Multi-Solenoid Valves	-
-	- Valve Accessories and Options	-