

API/COOQ Approved Liquid/Gas Covered Tasks List
with references to NCCER Pipeliner Training and Assessment Materials

Revision Date 03/04/05

Note 1 - Workers must be qualified on either "General" or "Control Center" Abnormal Operating Conditions, (AOC) or both. Note 2 - Abnormal Operating Conditions are incorporated within each task performance verification.			Contren Learning Series		Written Assessments															
					Level	Module #	E & I Pipeline Technician	Mechanical Pipeline Technician	Corrosion Preven. Field Tech 1-Measurement Tech 1-Installation	Corrosion Prevention Field Technician 2	Corrosion Prevention Field Technician 3	Field and Control Center Operations Technician	Pipeline Maintenance Technician	Gas Maintenance Technician	Gas Pipeline Operations	Non Destructive Testing	Abnormal Operating Conditions (General)	Abnormal Operating Conditions (Control Ctr)	Abnormal Operating Conditions (Gas)	Performance Verifications
Task #	Task Type	API Covered Tasks and Sub-Tasks																		
AOC	L	Abnormal Operating Conditions (General)	1	66102													X		Note 2	
AOC	L	Abnormal Operating Conditions (Control)	1	65102														X	Note 2	
AOC	G	Abnormal Operating Conditions (Gas)	1	67107															X	Note 2
CORROSION																				
1	L/G	Conduct Annual Surveys or Electrically Inspect Unprotected Bare Pipe		Split																
		1.1 Measure structure-to-soil potentials	1	61108			X												PV011	
		1.2 Conduct close interval survey	2	61205				X											PV012	
		1.3 Test to detect interference	2	61203					X										PV013	
		1.4 Inspect and perform electrical test of bonds	2	61205			X												PV014	
		1.5 Inspect and test isolation devices	1	61108			X												PV015	
2	L/G	Maintain Test Leads	1	61109				X											PV021	
		2.1 Inspect and verify test lead continuity						X											PV022	
		2.2 Repair damaged test leads						X											PV023	
		2.3 Install test leads by non-exothermic welding methods						X											PV024	
		2.4 Install test leads by exothermic welding methods						X											PV024	
3	L/G	Inspect Rectifier	1	61108			X												PV031	
		3.1 Obtain a voltage and current output reading from a rectifier					X												PV032	
		3.2 Check for proper operation of a rectifier						X											PV032	
4	L/G	Maintain Rectifier	2	61202				X											PV041	
		4.1 Troubleshoot rectifier bond connections						X											PV042	
		4.2 Repair or replace defective rectifier components						X											PV043	
		4.3 Adjustment of rectifier							X										PV043	
5	L/G	Inspect Buried Pipe When Exposed (Also in Maintenance 62204)	1	61105			X												PV051	
		5.1 Inspect for physical damage on buried or submerged pipe					X												PV052	
		5.2 Inspect for external corrosion on buried or submerged pipe					X	X											PV053	
		5.3 Inspect the condition of external coating on buried or submerged pipe					X	X											PV053	
7	L/G	Inspect and Perform Prevention Methods for Atmospheric Corrosion		Split																
		7.1 Visual inspection of atmospheric coating	1	61106				X											PV071	
		7.2 Prepare surface for atmospheric coating using hand and power tools	1	61106			X							X					PV072	
		7.3 Perform water pressure cleaning	1	61106			X							X					PV073	
		7.4 Prepare surface for atmospheric coating by abrasive blasting	2	61207			X							X					PV074	
		7.5 Apply atmospheric coating using hand application methods	1	61106			X												PV075	
		7.6 Apply atmospheric coating using spray applications	2	61208			X												PV076	
		7.7 Use coating inspection tools	2	61206			X												PV077	
8	L/G	Measure Wall Thickness	1	61104			X												PV081	
		8.1 Measure pit depth with pit gauge					X												PV082	
		8.2 Measure wall thickness with handheld ultrasonic meter					X												PV083	
		8.3 Measure corroded area					X												PV083	
9	L/G	Cathodic Protection Remediation		Split																
		9.1 Install bonds	2	61203										X					PV091	
		9.2 Install galvanic anodes	2	61201					X										PV092	
		9.3 Install rectifiers	2	61201						X									PV093	
		9.4 Install impressed current groundbeds	2	61201						X									PV094	
		9.5 Repair shorted casings (Also in Maintenance 62304)	2	61204				X											PV095	
10	L/G	Monitor for Internal Corrosion	1	61111			X												PV101	
		10.1 Insert and remove coupons					X												PV102	
		10.2 Monitor probes (on-line)					X												PV110	
11	L/G	Perform Internal Corrosion Remediation	1	61111			X												PV110	
		No Subtasks																		

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					Level	Module #	E & I Pipeline Technician	Mechanical Pipeline Technician	Corrosion Preven. Field Tech 1-Measurement	Corrosion Preven. Field Tech 1-Installation	Corrosion Prevention Field Technician 2	Corrosion Prevention Field Technician 3	Field and Control Center Operations Technician	Pipeline Maintenance Technician	Gas Maintenance Technician	Gas Pipeline Operations	Non Destructive Testing		Abnormal Operating Conditions (General)
Task #	Task Type	API Covered Tasks and Sub-Tasks																	
12	L/G	Inspect Internal Pipe Surface No Subtasks	1	61110															PV120
13	L/G	Apply and Repair External Coating on Buried or Submerged Pipe		Split															
		13.1 Prepare surface for coating using hand and power tools	1	61106															PV131
		13.2 Perform water pressure cleaning	1	61106															PV132
		13.3 Prepare surface for coating by abrasive blasting	2	61207															PV133
		13.4 Apply coating using hand application methods	1	61107															PV134
		13.5 Apply coating using spray applications	2	61208															PV135
MAINTENANCE																			
9	L/G	9.5 Repair shorted casings (Also in Corrosion 61204)	2	62304															PV095
14	L/G	Place and Maintain Line Markers																	
		14.1 Locate line (Also in Corrosion 61103)	1	62106															PV141
		14.2 Install marker																	PV142
		14.3 Inspect and maintain marker																	PV143
		14.4 Inspect and maintain aerial line markers																	PV144
15	L/G	Inspect Surface Conditions of Right-of-Way																	
		15.1 Visual inspection of the surface	2	62201															PV151
		15.2 Reporting protocols																	PV152
16	L/G	Inspect Navigable Waterway Crossing																	
		16.1 Use of probing equipment	2	62201															PV161
		16.2 Use of sonar equipment																	PV162
		16.3 Reporting protocols																	PV163
17	L/G	Provide Temporary Marking of Buried Pipeline Prior to Excavation																	
		17.1 Locate line (Also in Corrosion 61103)	1	62107															PV171
		17.2 Install marker																	PV172
		17.3 Inspect and maintain marker																	PV173
18	L/G	Inspection Following Excavation Activities and Leak Survey After Blasting																	
		18.1 Utilize leak survey techniques	2	62206															PV181
		18.2 Monitor for pressure loss																	PV182
20	L/G	Inspect Valves (Also in Mechanical 63204)																	
		20.1 Routine walk-around inspection	2	62203															PV201
		20.2 External integrity inspection																	PV202
		20.3 Function test valve																	PV203
		20.4 Leak test valve																	PV204
27	L	Inspection of Breakout Tanks																	
		27.1 Routine monthly inspection of breakout tanks	2	62202															PV271
		27.2 Inspection of in-service breakout tanks																	PV272
28	L/G	Provide Security for Pipeline Facilities																	
		No Subtasks	1	62106															PV280
29	L/G	Launching/Receiving Inline Inspection Device																	
		29.1 Launching in-line inspection devices	3	62303															PV291
		29.2 Receiving in-line inspection devices																	PV292
32		32.0 Monitoring Excavation Activities	1	62107															PV320

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Task #	Task Type	API Covered Tasks and Sub-Tasks																	
MECHANICAL																			
19	L/G	Valve Maintenance		Split															
		19.1 Valve body winterization or corrosion inhibition	1	63107	X														PV191
		19.2 Valve lubrication	1	63107	X														PV192
		19.3 Valve seat sealing	1	63107	X														PV193
		19.4 Valve stem packing maintenance	1	63107	X														PV194
		19.5 Actuator/operator adjustment, electric (Also in E&I 64208)	3	63308	X														PV195
		19.6 Actuator/operator adjustment, pneumatic	3	63306	X														PV196
		19.7 Actuator/operator adjustment, hydraulic	3	63307	X														PV197
20	L/G	Inspect Valves (Also in Maintenance 62203)			X														
		20.1 Routine walk-around inspection	2	63204															PV201
		20.2 External integrity inspection																	PV202
		20.3 Function test valve																	PV203
		20.4 Leak test valve																	PV204
21	L/G	Repair Valves		Split															
		21.1 Repair valve actuator/operator, pneumatic	3	63306	X														PV211
		21.2 Disassembly/re-assembly of valve	2	63204	X														PV212
		21.3 Internal inspection of valve	2	63204	X														PV213
		21.4 Repair valve actuator/operator, hydraulic	3	63307	X														PV214
		21.5 Repair valve actuator/operator, electric	3	63308	X														PV215
22	L	Inspect Tank Pressure/Vacuum Breakers and Inspect, Test and Calibrate HVL Tank Pressure Relief Valves	2	63205	X														PV220
		No Subtasks																	
23	L/G	Maintain and Repair Relief Valves and Pressure Limiting Devices			X														
		23.1 Maintain/repair relief valves	2	63205															PV231
		23.2 Maintain/repair pressure limiting devices																	PV232
24	L/G	Inspect, Test and Calibrate Pressure Limiting Devices and Relief Valves	2	63205	X														PV240
		No Subtasks																	
ELECTRICAL AND INSTRUMENTATION																			
19	L/G	19.5 Actuator/operator adjustment, electric (Also in Mechanical 63308)	2	64208	X														PV195
25	L/G	Inspect, Test and Calibrate Pressures Switches and Transmitters			X														
		25.1 Inspect, test and calibrate pressure switches	2	64206															PV251
		25.2 Inspect, test and calibrate pressure transmitters																	PV252
26	L/G	Verify or Set Protection Parameters for Programmable Controllers and/or Other Instrumentation Control Loops	2	64207	X														PV260
		No Subtasks																	
30	L	Test Overfill Protective Devices	2	64206	X														PV300
		No Subtasks																	
31	L	Inspect and Calibrate Overfill Protective Devices	2	64206	X														PV310
		No Subtasks																	
44	L	CPM Leak Detection			X														
		44.1 Inspection, testing and calibrations of leak detection equipment	2	64209															PV441
		44.2 Verify the leak detection system meets design parameters																	PV442
55	G	Maintain Fixed Gas Detection Equipment	2	64210	X														PV550
		No Subtasks																	

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Task #	Task Type	API Covered Tasks and Sub-Tasks																	
LIQUID PIPELINE FIELD OPERATIONS																			
43	L/G	Operations of a Pipeline System		Split															
		43.1 Start-up of a pipeline	1	60105															PV431
		43.2 Shutdown of a pipeline	1	60105															PV432
		43.3 Monitor pressures, flows, communications and line integrity and maintain them within allowable limits	1	60106															PV433
		43.4 Manually or remotely open or close valves or other equipment	1	60105															PV434
LIQUID PIPELINE CONTROL CENTER OPERATIONS																			
43	L/G	Operations of a Pipeline System		Split															
		43.1 Start-up of a pipeline	1	65106															PV431
		43.2 Shutdown of a pipeline	1	65106															PV432
		43.3 Monitor pressures, flows, communications and line integrity and maintain them within allowable limits	1	65105															PV433
		43.4 Manually or remotely open or close valves or other equipment	1	65106															PV434
GAS PIPELINE OPERATIONS																			
43	L/G	Operations of a Pipeline System		Split															
		43.1 Start-up of a pipeline																	PV431
		43.2 Shutdown of a pipeline																	PV432
		43.3 Monitor pressures, flows, communications and line integrity and maintain them within allowable limits	1	67104/105															PV433
		43.4 Manually or remotely open or close valves or other equipment																	PV434
50	G	Purge Gas from a Pipeline	1	67104/105															PV500
		No Subtasks																	
51	G	Purge Air from a Pipeline	1	67104/105															PV510
		No Subtasks																	
54	G	Test Remote Control Shutdown Devices	1	67104/105															PV540
56	G	Perform Incremental Pressure Increases to Uprate MAOP	1	67104/105															PV560
		No Subtasks																	
57	G	Operate Odorant Equipment	1	67104/105															PV570
		No Subtasks																	
58	G	Monitor Odorant Level	1	67104/105															PV580
		No Subtasks																	