

Appendix B

Kinder Morgan Operator Qualification Program

List of Covered Tasks – Hazardous Liquid Pipelines – Part 195

5/26/2021

No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	L-O&M Reference	DOT Part 195 Reference
101.01	Abnormal Operating Conditions – Outside of Control Room	3 yrs.	Knowledge Test	Knowledge Test	N/A	1900	402a, 402f, 403
101.02	Abnormal Operating Conditions – Inside of Control Room	3 yrs.	Knowledge Test	Knowledge Test	N/A	1101, 1102, 1900	402a, 402f, 403
102.01	Measure Structure-to-Soil Potentials	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	573a1
102.02	Advanced Cathodic Testing	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	3, 573a 452h2, 571, 575, 577
102.03	Active Corrosion/MIC Testing	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	213, 268, 903	573a2, 452(h)
102.04	Maintain Cathodic Test Leads (ETSs)	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	567, 571
102.05	Read Rectifier	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	573c
102.06	Use of Current Interrupters on Rectifiers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	573a2

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102.07	Adjust Rectifier	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	573c, 573e
102.08	Maintain Rectifier	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	573c, 573e
102.09	Atmospheric Corrosion – Inspection of Coatings	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	203, 918	583b, 583c
102.10	Atmospheric Corrosion – Surface Preparation	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	203, 918	581a, 581b, 581c2, 559, 561
102.11	Atmospheric Corrosion – Application of Coatings	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:5	203, 903, 918	581
102.12	Electronic Holiday Detection	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	203	561
102.13	External Coatings on Buried or Submerged Components – Application and Repair	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	203, 903, 918	559, 561
102.14	Cathodic Protection Remediation	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903, 906	563, 565, 567, 575, 576e, 577, 585

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102.15	Internal Corrosion – Control Injection Rate	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903, 906	579
102.16	Internal Corrosion – Monitor Injection Rate	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	906	579
102.17	Internal Corrosion – Insertion and Removal of Probes and Coupons	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903, 906	579
102.18	Internal Corrosion – Monitoring Probes	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903, 906	579b, 579c, 579d
102.19	Internal Corrosion – Inspect Internal Pipe Surfaces	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	906	579c
102.20	Inspect Aerial Indicator on Rectifier	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	573c
102.21	Inspect and Perform Electrical Test of Bonds	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	577a, 577b
102.22	Reserved for Future Use						

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No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	L-O&M Reference	DOT Part 195 Reference
102.24	Visual Inspection of Buried Pipe and Components When Exposed	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	109, 203, 204, 213, 268, 454, 903, 917	401c, 557, 559, 561, 583b, 583c
102.25	Visual Inspection of Internal Surface of Pipe	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	109, 213, 906	579, 585
103.01	Inspect Navigable Waterway Crossing	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	217	412b
103.02	Inspect Atmospheric Breakout Tanks – Monthly External In-Service	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	918, 2101	264, 432a, 432b
103.03	Inspect Atmospheric Breakout Tanks – API 653 External In-Service	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	2100-03, 2101	264, 432a, 432b
103.04	Inspect Atmospheric Breakout Tanks – API 653 Out of Service	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	2101	264, 432a, 432b
103.05	Overfill Protective Devices – Manual Testing	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	704	428
103.06	Inspect Pressurized Breakout Tanks – External Inspection	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	2102	205, 264, 307, 432a, 432b

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No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	L-O&M Reference	DOT Part 195 Reference
103.07	Repair Pressurized Breakout Tanks	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	2101	116, 205, 258, 264, 307, 420b, 432
103.08	Reserved for Future Use						
103.09	Non-Destructive Testing of Welds	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	454	228a, 228b, 234
103.10	Reserved for Future Use						
103.11	Damage Prevention during Excavation Activities	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	204, 232	442
103.12	Inspection Activities – Welding on Pipeline System	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	406	234
103.13	Inspection Activities – Non-Destructive Testing	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	454	228a, 234
103.14	Conduct DOT Pipeline Pressure Tests	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	917, 1600	303, 304, 305, 306, 307, 308, 310

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No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	L-O&M Reference	DOT Part 195 Reference
103.15	CPM Leak Detection	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	279	134, 444
104.01	Inspect Buried Pipe when Exposed	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	204, 268	403a, 442c6, 561, 569
104.02	Measure Damage on Pipe – Manual Measurement	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	213, 120, 159, 403, 406, 918	585, 587
104.03	Measure Wall Thickness of Pipe – Ultrasonic Measurement	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	120, 203, 213, 403	585, 587
104.04	Place and Maintain Permanent Line Markers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:4	205	248, 410, 434
104.05	Inspect Surface Conditions of Right-of-Way	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	120, 204, 215, 221, 268	412a, 442
104.06	Inspection Following Blasting	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	204	442
104.07	DOT Inspection of Valves	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	120, 301, 510, 1900	116, 258, 420b

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No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	L-O&M Reference	DOT Part 195 Reference
104.08	Moving In-Service Pipe	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	202	246, 403a, 424
104.09	Inspection of Clearance of Existing Pipe to Underground Structures	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	204	250, 403a, 442
104.10	Inspection of Support Structures on Existing Aboveground Components	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:4	120, 141, 159, 203,213, 215, 918, 1700	110, 254, 403a
104.11	Backfilling an Excavation	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	204, 205	108, 252, 403a
104.12	Composite Sleeve Application - ClockSpring®	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	109, 201, 203, 213, 903	403a, 422, 585a2
104.13	General Pipeline Repair – Full Encirclement Sleeve	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	213, 280, 401, 402, 404, 405, 407	403a, 422, 585a2
104.14	General Pipeline Repair – Component Replacement	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	103, 213, 240, 250, 1403	202, 422, 416f
104.15	General Pipeline Repair – Stopping	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	224	403a, 422

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104.16	General Pipeline Repair – Hot Tap	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	109, 120, 224	403a, 422
104.17	Evacuation of Liquids from Pipe Using Inert Gas	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	103, 120, 134, 142, 226, 227, 234, 235, 236, 250	402c10, 402c11, 403a, 422
104.18	Evacuation of Liquids from Pipe Using Liquid Flammable Gas	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	103, 120, 134, 142, 226, 227, 234, 235, 236, 250	402c10, 402c11, 403a, 405, 422
104.19	Evacuation of Liquids from Pipe	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	226, 227, 234	402c10, 402c11, 403a, 405, 422
104.20	Safe Disconnecting of Abandoned Pipeline Facilities	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	220, 225, 226	402c10, 402c11
104.21	Welding on Existing Pipeline Systems	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	120, 401, 402, 403, 404, 405, 406, 407, 407A, 454, 455, 456	208, 214, 216, 222, 224, 226, 228, 230, 234, 308, 403a, 422, 424, 432, 569
104.22	Locate Pipeline	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	120, 204, 205, 245, 1404, 1700	422a, 442
104.23	Temporary Marking of Pipeline	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	120, 204, 205	442c2

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No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	L-O&M Reference	DOT Part 195 Reference
104.24	Installation/Use of Vapor Barriers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	120, 222, 226, 240, 250	59, 402c10
105.01	Provide Security for Pipeline Facilities	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	159, 510	258a, 264c, 420c, 434, 436, 438
105.02	Monitor by Remote Security Devices	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	510, 1101	258a, 408, 420c, 436
105.03	Breakout Tanks Static Protection – Line Velocity	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1102	405a, 405b
105.04	Reserved for Future Use						
105.05	Reserved for Future Use						
105.06	Overfill Protective Devices – Knowledge of Tank Level Alarms	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	704	402c11, 403a3, 428a, 428b, 428c, 428d
105.07	Overfill Protective Devices – Response to Tank Level Alarms	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	223, 704	402c11, 402e1, 403a4, 428a, 428b, 428c

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105.08	Operations of Pipeline System – Start Pipeline	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	501, 1103	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.09	Operations of Pipeline System – Normal Shutdown From Normally Controlling Location	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	223, 501, 502, 1101, 1102, 1103	402c7, 8,9, 402c8, 402c9, 402d, 402e, 406, 408
105.10	Operations of Pipeline System – Normal Shutdown From Location not Normally Controlling	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	100, 223, 501, 502, 1103, 1900	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.11	Operations of Pipeline System – Emergency Pipeline Shutdown	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	223, 500, 1101, 1900	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.12	Operations of Pipeline System – Emergency Station Shut-In	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	223, 500	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.13	Operations of Pipeline System – Unit Adjustment	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	223, 500, 501, 502, 1102, 1104	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.14	Operations of Pipeline System – Tank Management	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1060, 2103	402c9, 402d, 402e, 408a
105.15	Operations of Pipeline System – Monitor Communications	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	223, 500, 1101	50, 55, 58, 402e1, 402e2, 402e3, 402e9, 408, 446

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105.16	Operations of Pipeline System – Monitor Leak Detection and Line Integrity	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	223, 1030, 1101, 1900,	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.17	Operations of Pipeline System – Monitor Flow Rates	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1062, 1102, 1105	402c9, 402d, 402e, 408
105.18	Operations of Pipeline System – Maintain Pressures within Allowable Limits	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	200, 201, 1102	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.19	Operations of Pipeline System – Manually or Remotely Open or Close Valves	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	223	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.20	Operations of Pipeline System – Operating Pressure Test	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1106	402c7, 402c8, 402c9, 402d, 402e, 406, 408
105.21	Launching and Receiving Internal Devices	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	235	426
106.01	Maintain and Repair Power Valve Actuators	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	101, 142,152,158,159,162,199, 301	420a, 420b, 420c
106.02	Preventive Maintenance Valve Actuators	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	101, 142,152,158,159,162,199, 301	420a, 420b, 420c

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106.03	Lubricate Valves	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	101, 142,152,158,159,162,199, 301	420a, 420b, 420c
106.04	Repair Valves	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	101, 142,152,158,159,162,199, 301	116, 206, 420, 422b, 428
106.05	Overpressure Safety Devices – Inspect, Test and Calibrate Relief Valves	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	703	116, 206, 262c, 420, 422b, 428
106.06	Overpressure Safety Devices – Pressure Switches and Transmitters	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	703, 704	262c, 428a
106.07	Pressure Limiting Devices – Inspect, Test and Calibrate Mechanical Control Valves	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	703	428a
106.08	Pressure Limiting Devices – Inspect, Test and Calibrate Electronic/Electro-Hydraulic Control Loops	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	703	428a
106.09	Overfill Protective Devices – Repair and Replacement	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	704	428c