

Appendix J

Kinder Morgan Operator Qualification Program

List of Covered Tasks – Kinder Morgan Liquids Terminal - 195

2/21/2024

No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	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	Covered Task Summary	402a, 402f, 403
102.01	Measure Structure-to-Soil Potentials	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	573a1
102.02	Advanced Cathodic Testing	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	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	Covered Task Summary	573a2, 452(h)
102.04	Maintain Cathodic Test Leads (ETSs)	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	567, 571
102.05	Read Rectifier	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	573c
102.06	Use of Current Interrupters on Rectifiers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	573a2

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102.07	Adjust Rectifier	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	573c, 573e
102.08	Maintain Rectifier	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	573c, 573e
102.09	Atmospheric Corrosion – Inspection of Coatings	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	583b, 583c
102.10	Atmospheric Corrosion – Surface Preparation	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	Covered Task Summary	581a, 581b, 581c2, 559, 561
102.11	Atmospheric Corrosion – Application of Coatings	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	Covered Task Summary	581
102.12	Electronic Holiday Detection	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	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	Covered Task Summary	559, 561
102.14	Cathodic Protection Remediation	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	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	Covered Task Summary	579
102.16	Internal Corrosion – Monitor Injection Rate	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	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	Covered Task Summary	579
102.18	Internal Corrosion – Monitoring Probes	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	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	Covered Task Summary	579c
102.20	Inspect Aerial Indicator on Rectifier	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	573c
102.21	Inspect and Perform Electrical Test of Bonds	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	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	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	Covered Task Summary	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	Covered Task Summary	579, 585
103.01	Inspect Navigable Waterway Crossing	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	264, 432a, 432b
103.05	Overfill Protective Devices – Manual Testing	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	428
103.06	Inspect Pressurized Breakout Tanks – External Inspection	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	Covered Task Summary	205, 264, 307, 432a, 432b

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103.07	Repair Pressurized Breakout Tanks	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	Covered Task Summary	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	1:0	Covered Task Summary	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	Covered Task Summary	442
103.12	Inspection Activities – Welding on Pipeline System	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	Covered Task Summary	234
103.13	Inspection Activities – Non-Destructive Testing	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	228a, 234
103.14	Conduct DOT Pipeline Pressure Tests	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	Covered Task Summary	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	Reference	DOT Part 195 Reference
103.15	CPM Leak Detection	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	134, 444
104.01	Inspect Buried Pipe when Exposed	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	585, 587
104.04	Place and Maintain Permanent Line Markers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	Covered Task Summary	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	Covered Task Summary	412a, 442
104.06	Inspection Following Blasting	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	442
104.07	DOT Inspection of Valves	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	Covered Task Summary	116, 258, 420b

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104.08	Moving In-Service Pipe	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	Covered Task Summary	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	Covered Task Summary	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	1:2	Covered Task Summary	110, 254, 403a
104.11	Backfilling an Excavation	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	Covered Task Summary	108, 252, 403a
104.12	Composite Sleeve Application - ClockSpring®	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	Covered Task Summary	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	Covered Task Summary	403a, 422, 585a2
104.14	General Pipeline Repair – Component Replacement	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	Covered Task Summary	202, 422, 416f
104.15	General Pipeline Repair – Stoppling	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	402c10, 402c11
104.21	Welding on Existing Pipeline Systems	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	Covered Task Summary	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	Covered Task Summary	422a, 442
104.23	Temporary Marking of Pipeline	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	442c2

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104.24	Installation/Use of Vapor Barriers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	59, 402c10
104.25	Joining of Pipe/Tubing – Threaded Fittings	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	202, 204, 213, 250, 416f, 422
104.26	Joining of Pipe - Flange-Gasket Assembly	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	202, 422
105.01	Provide Security for Pipeline Facilities	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	405a, 405b
105.04	Reserved for Future Use						
105.05	Reserved for Future Use						

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No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	Reference	DOT Part 195 Reference
105.06	Overfill Protective Devices – Knowledge of Tank Level Alarms	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	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	Covered Task Summary	402c11, 402e1, 403a4, 428a, 428b, 428c
105.08	Operations of Pipeline System – Start Pipeline	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	402c7, 402c8, 402c9, 402d, 402e, 406, 408

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105.14	Operations of Pipeline System – Tank Management	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	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	Covered Task Summary	50, 55, 58, 402e1, 402e2, 402e3, 402e9, 408, 446
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	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	426

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106.01	Maintain and Repair Power Valve Actuators	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	Covered Task Summary	420a, 420b, 420c
106.02	Preventive Maintenance Valve Actuators	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	Covered Task Summary	420a, 420b, 420c
106.03	Lubricate Valves	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	Covered Task Summary	420a, 420b, 420c
106.04	Repair Valves	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	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	Covered Task Summary	428a

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106.09	Overfill Protective Devices – Repair and Replacement	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	428c