Kinder Morgan Operator Qualification Program

List of Covered Tasks – Hazardous Liquid Pipelines – Part 195

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

Kinder Morgan Operator Qualification Program

List of Covered Tasks – Hazardous Liquid Pipelines – Part 195

No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	Reference	DOT Part 195 Reference
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
	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

Kinder Morgan Operator Qualification Program

List of Covered Tasks – Hazardous Liquid Pipelines – Part 195

No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	Reference	DOT Part 195 Reference
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						

Kinder Morgan Operator Qualification Program

List of Covered Tasks – Hazardous Liquid Pipelines – Part 195

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

Kinder Morgan Operator Qualification Program

List of Covered Tasks – Hazardous Liquid Pipelines – Part 195

No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	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	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

Kinder Morgan Operator Qualification Program

List of Covered Tasks – Hazardous Liquid Pipelines – Part 195

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

Kinder Morgan Operator Qualification Program

List of Covered Tasks – Hazardous Liquid Pipelines – Part 195

No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	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	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

Kinder Morgan Operator Qualification Program

List of Covered Tasks – Hazardous Liquid Pipelines – Part 195

No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	Reference	DOT Part 195 Reference
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

Kinder Morgan Operator Qualification Program

List of Covered Tasks – Hazardous Liquid Pipelines – Part 195

No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	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	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
104.27	Operate and Maintain Closure Devices	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	Covered Task Summary	420
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						

Kinder Morgan Operator Qualification Program

List of Covered Tasks – Hazardous Liquid Pipelines – Part 195

No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	Reference	DOT Part 195 Reference
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	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

Kinder Morgan Operator Qualification Program

List of Covered Tasks – Hazardous Liquid Pipelines – Part 195

No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	Reference	DOT Part 195 Reference
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
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

Kinder Morgan Operator Qualification Program

List of Covered Tasks – Hazardous Liquid Pipelines – Part 195

No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	Reference	DOT Part 195 Reference
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
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

Kinder Morgan Operator Qualification Program

List of Covered Tasks – Hazardous Liquid Pipelines – Part 195

No.	Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	Reference	DOT Part 195 Reference
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
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