

Appendix A
Kinder Morgan Operator Qualification Program
List of Covered Tasks - Natural Gas - Part 192
Revised 7/20/2021

No.	Gas Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	O&M Reference	CFR49 Citation
01.01.01	Abnormal Operating Conditions (AOC) - Outside of Control Room	3 yrs.	Knowledge Test	Knowledge Test	N/A	101, 215, 550, 703, 1101, 1900	192.605c1, 605c2
01.01.02	Abnormal Operating Conditions (AOC) - Inside of Control Room	3 yrs.	Knowledge Test	Knowledge Test	N/A	159, 228, 1101, 1102, 1902	192.605, 803, 805
02.01.01	Gas Detection & Alarm System Maintenance & Performance Test	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	515, 550	192.171, 736c
02.02.01	Isolation of Compressor Units	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	501, 502	192.605b6
02.03.01	Compressor Station Inspection & Testing of Remote Control Shutdown Devices	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	500	192.167, 603b, 605a, 605b, 731
03.01.01	Operating Compressor Units: Remote	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	501, 502	192.605
03.01.02	Operating Compressor Units: Manual	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	501, 502	192.605b7
03.02.01	Shutting Down Compressor Units: Remote	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	501, 502	192.605b7
03.02.02	Shutting Down Compressor Units: Manual	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	501, 502	192.605b7
03.03.01	Starting Compressor Units: Remote	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	501, 502	192.605b7

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03.03.02	Starting Compressor Units: Manual	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	501, 502	192.605b7
04.01.01	Measure Damage on Installed Pipe and Components	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	213, 403	192.305, 307, 485(c), 933(a)
04.01.02	Corrosion Monitoring – Atmospheric, External, and Internal: Offshore Pipelines	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903, 918	192. 459, 475(b)(1), 479, 481, 605(b)(10)(i)
04.01.03	Visual Inspection of Buried Pipe and Components When Exposed	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	109, 213, 903, 917, 918	192. 459, 475(b)(1), 479, 481, 605(b)(10)(i)
04.01.04	Visual Inspection of Internal Surface of Pipe	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	109, 213, 903, 906, 915	192.475b1, 605b10i, 614c5
04.01.05	Visual Inspection for External/Atmospheric Corrosion	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	918, 1700, I-1141	192.459, 475b1, 479b1, 481, 605b10i, 614c5
04.01.06	Insert and Remove Coupons/Probes for Internal Corrosion Monitoring	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	906, 1700	192.459, 475b1, 479b1, 481, 605b10i
04.01.07	Nondestructive Testing – Magnetic Particle Testing of Pipe	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	917, 919	192.917e5, 929, 933
04.01.08	Evaluating Anomalies Using Handyscan 700® *This is a CONTRACTOR TASK ONLY and is not performed by KM employees. (effective 10/1/2018)	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	213, 915	192.319a, 361c, 361d, 461c, 461d, 461e

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04.02.01	Coating Maintenance/Application and Repair-Sprayed, Brushed, or Rolled	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:5	203, 903, 918	192.455a1, 461a, 471c, 479a, 483a
04.02.02	Coating Maintenance/Repair – Wrapped	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:5	102, 203,1211	192.455a1, 461a, 471c, 479a, 483a
04.03.01	Electronic Holiday Detection	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	C1080, C1081, C1082, C1085	192.461c
05.01.01	Cathodic Protection System Maintenance: Rectifiers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	184, 903, I-1700	192.455, 457, 465, 467, 473, 483
05.01.02	Cathodic Protection System Maintenance: Electrical Isolation	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	184, 903, I-1700	192.455, 457, 465, 467, 473, 483
05.01.03	Cathodic Protection System Maintenance: Anodes & Anode Ground Beds	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	184, 903	192.455, 457, 465, 467, 473, 483
05.01.04	Inspect or Test Cathodic Protection Bonds	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	192.465c, 465d, 491a
05.01.05	Cathodic Protection System Maintenance: Reverse Current Switches	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	192.455(a)(2), (d), 457(a)(b), 465(c)(d)(e), 467(a)(b)(c)(e)(f), 473b, 483(b)(c)
05.01.06	Cathodic Protection System Maintenance: Automatic Potential Controlled Protection Systems	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	192.455(a)(2), (d), 457(a)(b), 465(c)(d)(e), 467(a)(b)(c)(e)(f), 473b, 483(b)(c)

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05.01.07	Cathodic Protection System Maintenance: AC Voltage Mitigation System	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	192.455(a)(2), (d), 457(a)(b), 465(c)(d)(e), 467(a)(b)(c)(e)(f), 473b, 483(b)(c)
05.01.08	Cathodic Protection: Read Rectifier	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	192.465
05.02.01	Cathodic Protection System – Electrical Connections	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903, C1085	192.455a2, 455d, 457b, 465c, 465d, 465e, 467(a)(b)(c)(e)(f), 471(a)(b), 473b, 483b, 483c
05.02.02	Maintain Cathodic Test Leads (effective 11/15/19)	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	203,213, 403, 903	192.465, 192.471
05.03.01	Cathodic Protection System Testing: Test Stations	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	192.455a2, (b)(c)(d), 192.457(a)(b), 463, 465, 467d, 473b
05.03.02	Indirect Inspection – Measure Structure-to Electrolyte Potential	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	192.455a2, (b)(c)(d), 192.457(a)(b), 463, 465, 467d, 473b
06.01.01	Indirect Inspection: Close Interval Survey	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	192.195b
06.01.02	Indirect Inspection – Direct Current Voltage Gradient (DCVG) Survey	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	192.195b
06.01.03	Indirect Inspection: Voltage Gradient (ACVG) Survey	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	192.620d7, 925

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06.01.04	Indirect Inspection: AC Current Attenuation (ACCA or PCM) Survey	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	903	192.195b
07.01.01	Locating, Installing & Protecting Customer Meters & Regulators: Residential & Small Commercial	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	E0405, E0415, E0420, E0425, E0427	192.199(c)(f), 353, 355, 357
07.01.02	Locating, Installing & Protecting Customer Meters & Regulators: Large Commercial	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	E0405, E0415, E0420, E0425, E0427	192.199(c)(f), 353, 355, 357
07.02.01	Customer Pressure Regulating, Limiting & Relief Device: Residential & Small Commercial	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	703	192.199(c)(f), 353(a)(b)(d), 355(a)(b)(c)
07.02.02	Customer Pressure Regulating, Limiting & Relief Device: Large Commercial & Industrial	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	703	192.199(c)(f), 353(a)(b)(d), 355(a)(b)(c)
08.01.01	Locating Pipelines	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	204, 232	192.614(c)(5)
08.02.01	Damage Prevention During Excavation Activities	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	204, 215, 220, 232	192.614(c)(6)(i)(ii), 935
09.01.01	System Patrolling	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	215	192.705a, 705c, 721a, 721b
10.01.01	Plastic Pipe – Electrofusion: Couplings	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	451, 452, 453	192.273(b)(c), 281(a)(c)(3)(4)
10.01.02	Plastic Pipe – Electrofusion: Sidewall	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	451, 452, 453	192.273(b)(c), 281(a)(c)(3)(4)

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10.02.01	Plastic Pipe – Butt Heat Fusion	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	451, 452, 453	192.273(b)(c), 281(a)(c)(1)(4)
10.03.01	Plastic Pipe – Sidewall Heat Fusion	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	451, 452, 453	192.273(b)(c), 281(a)(c)(4)
10.04.01	Plastic Pipe – Mechanical Joints: Stab Fittings	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	451, 452, 453	192.273b, 273c, 281a, 281c3, 281c4
10.04.02	Plastic Pipe – Mechanical Joints: Compression Couplings 2" & Less	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	451, 452, 453	192.273(b)(c), 275(b)(c)(d)
10.04.03	Plastic Pipe – Mechanical Joints: Compression Couplings Greater Than 2"	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	451, 452, 453	192.273(b)(c), 281(a)(c)(3)(4)
10.05.01	Joining of Pipe-Flange Assembly	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	1211, 1403	192.147
10.05.02	Joining of Pipe/Tubing - Threaded Fittings	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	1406	192.319(a), 361(c)(d), 461(c)(d)
10.06.01	Reserved for Future Task						
10.07.01	Solvent Cement Joints	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	451, 452, 453	192.281b
11.01.01	Direct/Inspect In-service Pipeline Lowering	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	202	192.612

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11.02.01	Direct/Inspect/Mitigate Pipeline Hydrate Formation In Pipeline	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	212	192.475, 476, 605b, 620d5, 927
12.01.01	Leakage Survey: Walking	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	215	192.553(a)(1), 557b2, 703c, 706, 723(b)(1)(2)
12.01.02	Leakage Survey: Mobile	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	215	192.553(a)(1), 557(b)(2), 703(c), 706, 723(b)(1)(2)
12.02.01	Outside Leakage Investigation, Pinpointing and Grading	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	101, 213, 215, 1900	192.615a3i, 703c, 706, 723b
12.03.01	Inside Gas Leakage Investigation	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	101, 213, 215, 1900	192.615a3i, 703c, 706, 723b
13.01.01	Leak & Strength Test – Service Lines, Mains & Transmission Lines: Gaseous: Test Pressures \leq 100 psi	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	220, 1600	192.503(a)(1)(2), 505(a)(b), 507(a)(b)(1)(2), 509(a), 511(a), 513(a)(b), 555(d)(1), 719(a), 725(a)(b)
13.01.02	Leak & Strength Test – Service Lines, Mains & Transmission Lines: Gaseous: Test Pressures $>$ 100 psi	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	220, 1600	192.503(a)(1)(2), 505(a)(b), 507(a)(b)(1)(2), 509(a), 511(a), 513(a)(b), 555(d)(1), 719(a), 725(a)(b)

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13.01.03	Leak & Strength Test – Service Lines, Mains & Transmission Lines: Hydrostatic Test	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	220, 1600	192.503(a)(1)(2), 505(a)(b), 507(a)(b)(1)(2), 509(a), 511(a), 513(a)(b), 555(d)(1), 719(a), 725(a)(b)
13.01.04	Leak & Strength Test – Service Lines, Mains & Transmission Lines: Test at Operation Pressure	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	220, 1600	192.503(a)(1)(2), 505(a)(b), 507(a)(b)(1)(2), 509(a), 511(a), 513(a)(b), 555(d)(1), 719(a), 725(a)(b)
14.01.01	Abandonment or Inactivation of Facilities - Transmission	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	225, 226, 1700	192.3, 14, 727(b)(c)(g)(1)(2)
14.02.01	Backfilling	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	C1100	192.319b, 361b
14.03.01	Installation of Steel Pipe – Field Bends	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	C1050	192.313(a)(b)
14.04.01	Casing Vents and Seals	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	903, C1140	192.323(b)(d)
14.05.01	Underground Clearances	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	204	192.325(a)(b)(c)(d)
14.06.01	Installation of Plastic Pipe: Direct Burial	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:5	451, 452, 453	192.311, 321(a)(b)(c)(e)(f)(g)(2), 361(c)(d)

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14.06.02	Installation of Plastic Pipe: Boring	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	451, 452, 453	192.311, 321(a)(b)(c)(e)(f)(g)(2), 361(c)(d)
14.06.03	Installation of Plastic Pipe: Plowing/Planting	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	C1240	192.311, 321(a)(b)(c)(e)(f)(g)(2), 361(c)(d)
14.06.04	Installation of Plastic Pipe: Plowing/Pull-In	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	451, 452, 453	192.311, 321(a)(b)(c)(e)(f)(g)(2), 361(c)(d)
14.06.05	Installation of Plastic Pipe: Above Ground	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	451, 452, 453	192.311, 321(a)(b)(c)(e)(f)(g)(2), 361(c)(d)
14.06.06	Installation of Plastic Pipe: Insertion	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	109, 451, 452, 453	192.59, 63, 283, 311, 321(a)(b)(c)(e), 361(c)(d)
14.07.01	Installation of Steel Pipe: Direct Burial	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:5	109, 204	192.319a, 361c, 361d, 461c, 461d, 461e
14.07.02	Installation of Steel Pipe: Boring	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	109, 204	192.319a, 361c, 361d, 461c, 461d, 461e
14.07.03	Installation of Steel Pipe: Plowing/Pull-In	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	109, 204	192.319a, 361c, 361d, 461c, 461d, 461e
14.07.04	Installation of Steel Pipe: Above Ground	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	109, 204	192.319a, 361c, 361d, 461c, 461d, 461e
14.07.05	Installation of Steel Pipe: Insertion	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	204, 205	192.319a, 361c, 361d, 461c, 461d, 461e

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14.08.01	Cover – Service Lines, Mains & Transmission Lines	3 yrs.	Knowledge Test	Knowledge Test	1:3	204, 205	192.319l, 327(a)(b)(d)(e)(f)(g), 361(a)
14.08.02	Cover – Offshore Pipelines	3 yrs.	Knowledge Test	Knowledge Test	1:1	205	192.319l, 327(a)(b)(d)(e)(f)(g), 361(a)
14.09.01	Inspection: Compliance with Procedures & Standards	3 yrs.	Knowledge Test	Knowledge Test	1:2	125, 204	192.305, 307
14.09.02	Inspection: Inspection of Materials	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	213	192.305, 307
14.10.01	Line Markers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:4	205	192.707
14.11.02	Pipeline Shutdown, Startup or Pressure Change: Stopple Fitting	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	201, 208, 223, 224, 240	192.605b5, 615a(6)(9)
14.11.03	Pipeline Shutdown, Startup or Pressure Change: Operating Identified Valve(s)	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	201, 208, 223, 240	192.605b5, 615a(6)(9)
14.11.04	Pipeline Shutdown, Startup or Pressure Change: Method(s) Required for Other Pipe Materials	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	201, 208, 223, 240	192.605(b)(5), 615(a)(6)(9)
14.11.05	Launching and Receiving Internal Devices	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	235	192.605b
14.12.01	Protection from Hazards	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	157, 204, 214, 215	192.317
14.13.01	Protection When Minimum Cover Not Met	3 yrs.	Knowledge Test	Knowledge Test	1:3	205	192.327
14.14.01	Purging: Large Volume, i.e. Segment of Main or Transmission Line, etc.	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	226, 227, 1030	192.605b6, 629, 727e

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14.14.02	Purging: Small Volume, i.e. Service Line, Short Pipeline Segments, Compressor, Component, etc.	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	226, 227, 1030	192.605b6, 629, 727e
14.15.01	Uprating: Reinforce or Anchor Offsets, Bends and Dead Ends – Longitudinal Straps	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	204, 213, 402	192.557b4
14.15.02	Uprating: Reinforce or Anchor Offsets, Bends and Dead Ends – Anchoring & Buttressing	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3	208, 213	192.557b4
14.16.01	Repair of Imperfections or Damage by Grinding	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	213	192.309
14.17.01	Reserved for Future Task						
14.18.01	Support, Expansion Joint and Anchor Maintenance – Exposed Pipeline	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:4	213	192.161c
14.19.01	Tapping Steel and Plastic Pipe: Manual (Self-Tapping)	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	224, 402, 403, 405, 406, 451, 453	192.627
14.19.02	Tapping Steel and Plastic Pipe: Mechanical Tapping Equipment	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	224, 402, 403, 405, 406, 451, 453	192.627
14.20.01	DOT Inspection of Valves	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	301	192.745, 747
14.20.02	Repair Valves	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	301, 1700	192.179, 181, 709, 745, 747

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14.20.05	Lubricate Valves	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	301	192.745, 747
14.21.01	Segment Removal	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:5	213, 222, 223	192.485(a)(b), 487(a)(b), 489(a)(b), 555(b)(2), 557(b)(2)(3), 703(b)(c), 713, 717
14.22.01	Leak Clamps & Sleeves: Bolt-On Type	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:2	213	192.485a, 485b, 489a, 489b, 503a2, 553a2, 555b2, 557b2, 557b3, 703, 713
14.22.02	Composite Sleeve Application - ClockSpring®	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	213	192.485a, 485b, 487a, 487b, 489a, 489b, 503a2, 553a2, 555b2, 557b2, 557b3, 703b, 703c, 713, 717, 913a, 913c, 913d1, 913d2
14.22.03	Composite Sleeve Application - Armor Plate® (new task effective 10/5/2018)	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	201, 203, 213, 219, 222, 223, 903	192.485(a)(b), 487(a)(b), 489(a)(b), 503(a)(2), 553(b)(2), 555(b)(2), 557(b)(2)(3), 703(b)(c), 713, 717, 933(a)(c)(d1)(d2)
15.01.01	Odorization – Mains & Transmission Lines: Periodic Sampling	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1026	192.625(a)(b)(f)

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No.	Gas Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	O&M Reference	CFR49 Citation
15.01.02	Odorization – Mains & Transmission Lines: Odorizer Maintenance	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:5	1026, 1700	192.625(a)(b)(f)
16.01.01	Gas Quality: Operate/Test/Maintain Carbon Dioxide (CO2) Analyzers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1700	192.475, 477
16.01.02	Gas Quality: Maintain/Service Chromatographs	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1009	192.475, 477
16.01.03	Gas Quality: Operate/Test/Maintain Oxygen (O2) Analyzers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1700	192.475, 477
16.01.04	Gas Quality: Operate/Test/Maintain Sulfur Analyzers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1700	192.475, 477
16.01.05	Gas Quality: Operate/Test/Maintain Moisture Analyzers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1700	192.475, 477
16.01.06	Reserved for Future Task						
16.01.07	Gas Quality: Operate and Maintain Gas Samplers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1222	192.475, 477
16.01.08	Gas Quality: Troubleshoot/Repair Chromatographs	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1009	192.475, 477
16.01.09	Gas Quality: Troubleshoot/Repair Sulfur Analyzers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	SSPP-1043	192.475, 477

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No.	Gas Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	O&M Reference	CFR49 Citation
16.01.10	Gas Quality: Troubleshoot/Repair Moisture Analyzers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	SSPP-1043	192.475, 477
16.01.11	Gas Quality: Troubleshoot/Repair Carbon Dioxide (CO2) Analyzers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	SSPP-1043	192.475, 477
16.01.12	Gas Quality: Troubleshoot/Repair Oxygen (O2) Analyzers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	SSPP-1043	192.475, 477
17.01.01	Reserved for Future Task						
18.01.01	Overpressure Safety Devices - Inspect, Test, and Calibrate Relief Valves	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	228, 310, 703, 1050	192.199(c)(g)(f), 201a, 485(a)(b), 553a, 557c, 605(b)(10)(iii), 619(a)(c), 621a, 623(a)(b), 731(a)(b), 739, 741c, 743(a)(c)
18.01.02	Pressure Limiting Devices - Inspect, Test, and Calibrate	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	703	192.181, 195, 199, 201, 619, 620, 621
18.02.01	Vault Maintenance	3 yrs.	Knowledge Test	Knowledge Test	1:1	101, 134, 703	192.749(a)(b)(c)
19.01.01	Reserved for Future Task						
20.01.01	Service Line Replacement	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3		192.365, 367, 381(c)(d)
20.01.02	Service Line Replacement: Underground Service Entrance (Prerequisite 20.01.01)	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:3		192.365, 367, 381(c)(d)
20.02.01	Reserved for Future Task						
20.03.01	Service Lines Not in Use and Service Discontinuance	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	226	192.379, 727d

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21.01.01	Reserved for Future Task						
22.01.01	Reserved for Future Task						
23.01.01	Reserved for Future Task						
23.02.01	Reserved for Future Task						
24.01.01	Welding Process	1 yr.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	401, 402, 403, 404, 405, 406, 407, 408	192.225a, 231, 235, 241(a)(b)(c), 243, 245(a)(b)(c), 309, 719b, 751b
24.01.02	Installation/Use of Vapor Barriers	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	226, 240	192.3, 14, 727b, 727c, 727g
24.02.01	Visual Inspection of Welds	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	103, 109, 120, 213, 402, 406, 407	192.241, 243, 245
24.03.01	Nondestructive Testing of Welds	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:0	213, 406, 407	192.241(a)(b)(c), 243, 245(a)(b)(c), 719b
24.04.01	Miter Joints	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	401, 402, 407	192.233
25.01.01	Dehydration: Operate/Maintain Liquid Knock-out	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1700, I-0801, I-0802, I-0803	192.475, 477, 605b7
25.01.02	Dehydration: Maintain/Repair Gas Fired Dehydration System Controls	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1700, I-1011, I-1013	192.605b2, 475, 477
25.01.03	Dehydration: Operate/Maintain Gas Dehydration System	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1700, I-1011, I-1013	192.605b2, 475, 477
25.01.04	Dehydration: Start-up/Shutdown of Dehydration System	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1700, I-1011, I-1013	192.605b2

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No.	Gas Covered Tasks	Requalification Frequency	Initial Qualification Method	Subsequent Qualification Method	Span of Control	O&M Reference	CFR49 Citation
25.01.05	Dehydration: Troubleshoot/Repair Gas Dehydration System	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1700, I-1011, I-1013	192.605b2, 475, 477
25.01.06	Gas Treatment: Read/Verify/Maintain Operating Parameters for Gas Processing/Amine System	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	600, 804	192.475, 477
25.01.07	Gas Treatment: Troubleshoot/Correct Gas Processing/Amine System	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	600, 804	192.475, 477
25.01.08	Dehydration: Maintain/Repair Gas Fired Mole Sieve Dehydration System Controls	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	600, 804	192.475, 477
25.01.09	Dehydration: Operate/Maintain Gas Fired Mole Sieve Dehydration System	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	600, 804	192.475, 477
25.01.10	Dehydration: Start-Up/Shut-Down of Mole Sieve Dehydration System	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	600, 804	192.605b2
25.01.11	Dehydration: Troubleshoot/Repair Mole Sieve Dehydration System	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	600, 804	192.605b2, 475, 477
27.01.03	Remote Compressor Station Operations	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	1103	192.605b5, 605b7
27.01.04	Remote Flow Control	3 yrs.	Knowledge Test and Performance Evaluation	Knowledge Test and Performance Evaluation	1:1	228, 1104, 1105	192.201, 605b5, 619