

	Weld closure onto pipeline	Burns, welder's flash, electric shock, eye injuries	3	4		Pipeline Welding (SWP-49), Pigging and Soap Testing (SJP-11)	2	2									✓			
Pigging/Soap test	Load pigs/remove pig	Injury from residual pressure	3	3		Pigging and Soap Testing (SJP-11)	1	2			✓							✓		
	Hook up air compressor/ shoot pig	Contact with equipment, equipment failure, hearing damage	3	3		Pigging and Soap Testing (SJP-11), Compressed Air (SWP-11)	3	1			✓							✓		
	Soap Test welds	Pressure, pipeline rupture	4	3		Pigging and Soap Testing (SJP-11)	3	1			✓							✓		
	Cut off pig closure	Burns, eye injuries, equipment damage, fire explosion	3	4		Grinder Operations (SWP-26), Pigging and Soap Testing (SJP-11)	2	2									✓			
Joint Prep and Coating	Joint Prep using emery cloth and Acetone	Chemical exposure, cuts	2	3		Joint Protection (SJP-27)	1	1										✓		
	Joint cleaning sand blasting	Injury, respiratory issues, noise	3	3		Joint Protection (SJP-27), Abrasive Blasting (SJP-22)	3	1			✓							✓		
	Yellow Jacket Sleeve Application	Burns, chemical exposure, rupture of tanks	2	3		Joint Protection (SJP-27), Suppliers Instructions, CANUSA Training	2	1			✓							✓		
	Epoxy coating	Chemical exposure, environmental impact	3	3		Joint Protection (SJP-27), Suppliers Instructions	2	2			✓							✓		
	Rock shield install	Cuts, MSI, Strains	2	3		Suppliers Instructions	1	1			✓							✓		
Ditching/Ripping	Changing Excavator buckets	Strain, equipment damage	2	3		Equipment operations Manual	1	1					✓					✓		
	Ripping with dozer	Buried facilities, equipment damage	3	3		Ground Disturbance (COP-07), Ground Disturbance (SWP-62), Excavating and or Trenching (SWP-46/SJP-30)	2	2					✓							
	Ripping with excavator	Buried facilities, equipment damage, Injury from flying debris	3	3		Ground Disturbance (COP-07), Ground Disturbance (SWP-62), Excavating and or Trenching (SWP-46/SJP-30)	2	2						✓						
	Digging with excavator	Buried facilities, equipment damage	3	3		Ground Disturbance (COP-07), Ground Disturbance (SWP-62), Excavating and or Trenching (SWP-46/SJP-30)	2	2						✓						
	Digging bell holes	Buried facilities, equipment damage	3	3		Ground Disturbance (COP-07), Ground Disturbance (SWP-62), Excavating and or Trenching (SWP-46/SJP-30)	2	2			✓	✓			✓			✓		
	Exposing hot line	Facility damage, environmental release, explosion, electrocution	4	4		Ground Disturbance (COP-07), Ground Disturbance (SWP-62), Excavating and or Trenching (SWP-46/SJP-30), Hydro Vac (SWP-30)	4	1			✓	✓			✓			✓		
	Spotting hot lines	Struck by equipment, explosion, falls	4	4		Ground Disturbance (COP-07), Ground Disturbance (SWP-62), Excavating and or Trenching (SWP-46/SJP-30)	2	2			✓	✓			✓			✓		
Fencing	Install fencing around open exactions	Falls, strains	2	3		Ground Disturbance (COP-07), Excavating and or Trenching (SWP-46/SJP-30),	2	2										✓		
Lower-In	Lower-in Pipeline	Crushing, damage pipe, Overloading equipment, fall from height	4	4		Lowering In Pipeline (SJP-02)	4	1								✓				
	Jeeping Holiday detection	Electrocution, pipe damage	2	3		Lowering In Pipeline (SJP-02) , Jeeping or Holiday Detection (SJP-03)	1	1				✓							✓	
Tape/Primer	Tape and Prime	Chemical exposure, cuts,	2	3		Jeeping or Holiday Detection (SJP-03)	1	1			✓							✓		
Pipe Weights install	Pipe weights (Swamp Weights)	Damage to pipe, injuries to personnel,	4	3			4	1								✓			✓	
Shading/Backfill	Shading	Damage to pipe, fall at same level and to lower,	3	3		Ground Disturbance (COP-07), Backfilling (SWP-02),Excavating and or Trenching (SWP-46/SJP-30)	2	2							✓			✓		
	Back fill	Damage to pipe, environmental damage, other equipment	3	3		Ground Disturbance (COP-07), Backfilling (SWP-02),Excavating and or Trenching (SWP-46/SJP-30)	2	2					✓	✓				✓		
Line Tie-Ins	Tie-In Welds	Crushing, equipment damage, burns, engulfment, eye injury, cuts, spring tensions	4	3		Tie-In Welding (SJP-29),	3	1			✓							✓	✓	
	Cutting with pipe beveller	Burns, Heat/Radiation, Fumes, Fires, Damage to pipe, Repetitive Strain	3	4			2	2										✓	✓	
	Working in bell holes	Excavation collapse, falling debris, uneven ground conditions, slips, falls	4	3		Excavating and Trenching (SWP-46), Ground Disturbance (COP-07)	2	2			✓							✓	✓	✓
Hot Tapping	Hot Tapping	Loss of life, spills, gas release, fire, injuries, facility damage	4	4		Tie in to Existing Pipe System (SJP-25), Hot Tapping (SJP-08)	4	1			✓							✓	✓	
	Riser installs	Crushing, equipment damage, burns, engulfment, eye injury, cuts, falls	4	3			2	2			✓							✓	✓	
	Pile Installation with excavator	Crushing, Equipment damage, spills, cuts, buried facilities,	4	3		Pile Installation With Excavator (SJP-05)	4	1			✓				✓			✓	✓	
Crossings-Pipeline, Road & railway, Crossings- Water	Bore Support	Equipment damage, pipe damage, hearing damage, Environmental	3	3		Mechanical Mobile Equipment Operations (SWP-44), Cranes Hoists Lifting Devices (SWP-34)	2	2			✓				✓			✓		
Replace Grades	Use dozer to spread sub soil/sub grade	Crushing, Equipment damage, spills, injuries to ground personnel	3	3		Ground Disturbance (COP-07), Backfilling (SWP-02)	2	2						✓						
	Corduroy Removal	Crushing, Equipment damage, spills, injuries to ground personnel	3	3		Ground Disturbance (COP-07)	2	2			✓				✓			✓		
	Cultivating	Crushing, Equipment damage, spills, injuries to ground personnel, buried facilities	3	3		Ground Disturbance (COP-07)	2	2			✓							✓		
	Seeding	Rollover, wildlife attack, ankle injuries,	3	3		ATV (SWP-01)	2	2										✓		
	ROW cleanup	Crushing, Equipment damage, spills, injuries to ground personnel	3	3			2	2				✓						✓		
Pressure testing	Pressure testing hydrostatic	Spill (Regulatory), Integrity failure, struck by hoses	4	4		Pressure Testing - Hydrostatic (SJP-09), QC/QA Procedures	3	1			✓	✓	✓					✓		✓
	Pressure testing pneumatic	Rupture of piping, struck by hoses	4	4		Pressure Testing - Pneumatic (SJP-10), QC/QA Procedures	3	1			✓	✓	✓					✓		✓
	Final testing- Sizing pig & Methanol Inhibitor runs	Chemical exposure, environmental impact, injury to workers,	3	4		Pressure Testing - Hydrostatic (SJP-09), QC/QA Procedures, Running Inhibitors Through Lines (SJP-26)	3	1			✓	✓						✓		
DE-MOB	Loading/unloading trucks	Cuts, crushes, falls, strains, equipment damage	4	3		Loading Unloading Hauling Equipment (SWP-29), Cargo Securement (SWP-04), Material Handling (SWP-22)	3	1			✓	✓	✓	✓	✓	✓		✓	✓	