

US Pipelines and Logistics PPE Matrix

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Note: If contradictory instructions exist between this PPE Matrix and any SOP or JSA, then the document specifying the greater degree of protection will prevail.		Additional PPE Requirements (Other than the minimum listed for the work environment) Note: Yellow highlighted cells have been revised from the November 2007 matrix version.						
		No Additional PPE Required	Body	Head	Face/Eye	Hearing	Foot	Hand
Job Title / Job Family	Hazard Potential Activity		Fire resistant clothing	Hard hat	Safety glasses		Safety shoes	
Workforce	Minimum PPE requirements							
Transport Driver	General	X						
	Road - workforce in public road right-of-ways		High-visibility FRC vest					
	Truck - Driving		Seat belt					
	Truck - Emergency Response			Organic vapor respirator where benzene > 1ppm				Nitrile
	Truck - Pre-trip & Post-trip inspections	X						
	Truck loading							Nitrile when handling hoses
	Truck unloading			Hard hat not required at customer locations	Goggles if pumping off	If pumping off		Nitrile when handling hoses
Logistics Mechanic	General work		Fall protection on top of trailers.		Goggles or Safety Glasses			
	Air conditioning servicing				Goggles or face shield			
	Air tools				Glasses when blowing debris	Yes		
	Battery charging				Face shield			Nitrile
	Brake jobs					When using impact tools		
	CARB Tank testing	X						
	Clutch replacement				When using impact wrench	When using impact tools		

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	Cooling System refill				Goggles			Nitrile
	Drill Press				Face shield			
	Engine tune up							Nitrile when possible exposure to fluids
	Grinder				Face shield			
	High Pressure Wash				Goggles			
	Office work	X						
	Road - workforce in public road right-of-ways		High-visibility FRC vest					
	Suspension work				When using impact wrench	When using impact tools		Cotton
	Tank Work - exterior				When using impact wrench	When using impact tools		
	Towing Procedures for Shop Truck	X						
	Truck Service							Nitrile
	Welding/cutting				Face shield with eye protection			Insulated Leather
	Wheel changes				When using impact wrench	When using impact tools		
Terminal Technician								
	General		Fall protection with any work above 6 feet.					
	Additive - Fuel biocide		Chemical resistant apron	Organic vapor respirator	Goggles			
	Additive injection system maintenance				Goggles			Gloves
	Barge - sample product line	X						
	Barge - tying up		Personal flotation device					Work gloves
	Barge - witness gauging	X						

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	Changing gasoline filters		Tyvek	Organic vapor respirator	Goggles			Nitrile
	Changing jet filters	X						
	Changing oil in product pumps	X						
	Cleaning strainers				Goggles when first opening			Nitrile
	Emergency response		PFD with over-water operations	Organic vapor respirator where benzene > 1ppm.				Nitrile gloves
	Forklift		Seat belt					
	Geodesic dome work						May wear rock climbing shoes instead of safety shoes	
	Grinder				Face shield			
	Lab - running gravity, RVP, flash, sulfur	X						
	Lawn mower and weed eater					Muffs or plugs required unless noise exposure survey exempted.		
	Man lifts		Fall protection must be attached to basket					
	Meter calibration							Nitrile gloves when handling hoses
	Office work	X						
	Oversee contractors		Same PPE as contractors					

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	PCB potential exposure		Tyvek	SCBA if PCB oil is above boiling point	Safety Glasses			Neoprene gloves
	Rail car loading		Fall protection on top of car		Goggles when connecting/disconnecting hoses			Gloves when handling hoses
	Rail car unloading		Fall protection on top of car		Goggles when connecting/disconnecting hoses			Gloves when handling hoses
	Road - workforce in public road right-of-ways		High-visibility FRC vest					
	Tank gauging	X						Nitrile
	Tank sampling				Goggles			Nitrile
	VRU maintenance				Goggles when adding seal fluid	Around vacuum pumps		Nitrile gloves when adding seal fluid
	Walk-arounds	X						
Pipelines								
	A/G onshore liquid piping inspection	X						
	ACT meter skid inspection/calibration	X						
	Actuator inspection							Work gloves
	Aerial patrol	X						
	Air compressor inspection	X						
	Air compressor inspection	X						
	Analyzer PM tasks	X						
	Annual inspection of river crossings		PFD					
	Annual vehicle inspection	X						
	Back pressure control valve PM							Work gloves
	Backup PLC program, change battery	X						
	Barge loading blanket	NA						
	Block and bleed valve inspection							Nitrile if exposed to product

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	Block valve inspection							Nitrile if exposed to product
	Blower PM tasks					Plugs/muffs		Work gloves
	Booster motor/pump PM tasks							Nitrile if changing oil
	Cathodic protection inspection	X						
	Centrifugal PM tasks							Nitrile if changing oil
	Check valve validity test	X						
	Clamp-on flow meter PM tasks							Work
	Clear ROW				Face shield	Plugs/muffs		Leather / nitrile
	Colorimeter maintenance							Nitrile
	Colorimeter PM tasks							Nitrile
	Cone roof tank PM tasks	X						
	Control valve PM tasks	X						
	Corrosion survey	X						
	Coupons corrosion inspection							Nitrile
	Crane and hoist inspection							Work/leather gloves
	Critical bonds reading	X						
	Crude station inspection	X						
	Deadweight tester calibration	X						
	Densitometer calibration	X						
	Diesel engine driven MLPU PM tasks							Leather gloves for some of the tasks
	Differential pressure transmitter calibration	X						
	DRA skid oil change							Nitrile
	DRA skid PM tasks							Nitrile
	ESD station test	X						
	Explosion-proof housing inspection	X						
	Facility inspection							Leather / nitrile for some of the tasks
	Field pumping unit inspection							Nitrile
	Fire system annual inspection	X						

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	Fire water pump/motor PM tasks							Leather
	Flare inspection	NA						
	Gas Chom PM tasks	NA						
	Gas line leak survey	X						
	Gas sample collection							Nitrile
	Gear pump PM tasks							Nitrile
	Geodesic dome work						May wear rock climbing shoes instead of safety shoes	
	H/V glove or hot stick inspection	X						
	H2S Monitor PM tasks	X						
	Half-cell corrosion inspection	X						
	Heat exchanger maintenance							Nitrile Gloves, Face Shield
	Heater/AC PM tasks	X						
	Helicopter pipeline patrol	X						
	High tank level switch test	X						
	High volt S.G./protective relay PM tasks		Electrical PPE		Electrical hood			High voltage
	ILI repairs					Plugs/muffs		Leather gloves
	Inspect and inventory spill response equipment							Leather gloves
	Inspect relief valve							Nitrile
	Inspect slings and chains							Work
	ISO 14001 facility inspection	X						
	LACT calibration	X						
	Leak detection checks	X						
	Line locates							Work/leather
	Low volt S.G. PM tasks							Electrical gloves if exposing wires
	Mainline pump PM tasks							Nitrile
	Mainline valve inspection							Nitrile
	Manifold valve inspection							Nitrile
	Manual valve PM tasks							Nitrile
	MCC PM tasks		Electrical					Electrical gloves

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	Medium voltage swgr PM tasks		Flash suit if racking out breakers					
	Meter skid calibration							Work/nitrile
	MIU functional test	X						
	MLPU inspection							Nitrile
	Motor reconditioning							Work / nitrile
	MOV PM tasks							Work / nitrile
	Multilin PM tasks	X						
	Nav aid and fog horn check	X						
	Navigable river crossings inspection		PFD					
	NGL sample collection							Leather gloves
	NRC wipe test on radioactive sources	X						
	NUSONICS PM tasks							Work
	Odorant test	X						
	Optical interface detector maintenance							Nitrile
	Orifice plate inspection							Leather gloves
	PCB potential exposure		Tyvek	SCBA if PCB oil is above boiling point	Safety Glasses			Neoprene gloves
	PD pump PM tasks							Nitrile
	Personal PPE check	X						
	Pig related tasks							Nitrile
	Pipe to soil potential readings							Work
	Pipeline surveillance ground							Work
	Platform checks	X						
	Platform inspection	X						
	PM - FACP-PUPD/PUGR Inspection							Nitrile
	Portable prover PM tasks							Work/nitrile
	Pressure switch calibration							Work
	Pressure switch line flush							Work
	Pressure switch/transmitter calibration							Nitrile/Work
	Pressure transmitter calibration							Nitrile/Work
	Products station inspection							Nitrile/Work

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	Products terminal inspection							Nitrile/Work
	Protective relay testing	X						
	Prover loop inspection							Work
	Prover water draw test							Work
	PUBT PM tasks	X						
	Pump PM tasks							Work/nitrile
	Pycnometer calibration							Leather gloves
	Radio tower inspection							
	Rectifier inspection							Electrical gloves
	Right-of-way clearing activities by contractors		FRC not required if no hydrocarbon exposure					
	Relief valve PM tasks	X						
	Road - workforce in public road right-of-ways		High-visibility FRC vest					
	RTU readings validation	X						
	Rupture disk testing	X						
	Satellite system PM	X						
	Scraper run							Work/nitrile
	Seal failure switch functional test	X						Work
	Service UPS	X						
	Shutter check & visual on radiation sources	X						
	Station electrical maintenance							Electrical gloves if exposing wires
	Station Inspection	X						Work/nitrile
	Station PM tasks	X						Work/nitrile
	Station prover loop inspection	X						Work/nitrile
	Stationary prover PM tasks	X						Work/nitrile
	Strainer cleaning PM							Nitrile
	Sump system PM tasks							Nitrile
	Survival capsule inspection	X						
	Switchgear PM tasks		Flash suit if racking out breakers					Electrical gloves
	Tank gauge calibration							Nitrile
	Tank level switches test							Nitrile
	Tank mixer inspection							Nitrile

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	Tank PM tasks							Nitrile
	Tank system inspection							Nitrile
	Temperature transmitter calibration							Nitrile
	Terminal inspection	X						
	Test outlets							Electrical gloves
	Transformer PM tasks	X						
	Truck unloading facility inspection							Nitrile
	Turbine meter calibration							Nitrile
	Vapor detection calibration							Work
	Vented shorted casing inspection							Work
	Vibration readings					Plugs/muffs		
	Water draw preparation tasks							Work/nitrile
Workplace evaluated: This assessment applies to all US Pipeline and Logistics work locations including Pipeline facilities and pipeline right-of-ways, terminals, and transport truck operations.								
Performed by: Mike Collins, HSE Team Leader, is the single point of contact for any questions, and certifies the assessments have been accurately performed.								
Date of assessment: This assessment is a compilation of assessments performed by Safety Coordinators and Safety Advisors over time. This assessment is current as of October 2008.								
Certification: This US Pipelines and Logistics PPE Matrix serves as the certification of the PPE hazard assessments.								