

Steamfitter/Pipefitter

Red Seal Occupational Standard - 2015

A – Performs Comm	on Occupational	Skille		1983	115	40000
A - Perionnis Commi	ion Occupational	SKIIIS	Control of	10 A 12 10 10	1000 000	Water Street
Task A-1 Performs safety-related functions	A-1.01 Maintains safe work environment	A-1.02 Selects, inspects and uses personal protective equipment (PPE) and safety equipment	A-1.03 Follows lock-out procedures			
Task A-2 Uses and maintains tools and equipment	A-2.01 Uses common tools and equipment	A-2.02 Uses access equipment	A-2.03 Uses welding equipment	A-2.04 Uses soldering and brazing equipment	A-2.05 Uses oxy-fuel equipment	
fask A-3 rganizes job	A-3.01 Plans work	A-3.02 Generates drawings	A-3.03 Interprets drawings and specifications	A-3.04 Develops piping templates	A-3.05 Performs quality control functions	
B – Performs Layou	t, Fabrication and	Piping Installation	on			
Task B-4	B-4.01 Fabricates piping system	B-4.02 Fabricates brackets,	45	PARTICIPATION OF THE PARTICIPA	A STATE OF	1
Performs fabrication	components	supports, hangers, guides and anchors				
Fask B-5 Lays out, identifies and installs piping, ubing, fittings and related components	B-5.01 Lays out, identifies and installs copper piping, tubing, fittings and related components	B-5.02 Lays out, identifies and installs plastic piping, tubing, fittings and related components	B-5.03 Lays out, identifies and installs carbon steel piping, tubing, fittings and related components	B-5.04 Lays out, identifies and installs stainless steel piping, tubing, fittings and related components	B-5.05 Lays out, identifies and installs fibreglass piping, fittings and related components	B-5.06. Lays out, identifies and installs specialty piping, fitting and related components
Task B-6 Installs, maintains, troubleshoots, repairs and tests valves	B-6.01 Installs valves	B-6.02 Maintains, troubleshoots, repairs and tests valves	Jan 15 10 15			
Task B-7 Installs, tests, maintains, troubleshoots and repairs heat tracing systems	B-7.01 Installs steam tracing systems	B-7.02 Maintains, troubleshoots, repairs and tests steam tracing systems	B-7.03 Installs liquid-filled tracing systems	B-7.04 Maintains, troubleshoots, repairs and tests liquid-filled tracing systems		1000
C – Performs Riggin	a Hoisting Liftin	g and Positioning	n	Of the State of th		
Task C-8	C-8.01 Determines load	C-8.02. Prepares lift plan(s)	C-8.03 Selects rigging, hoisting,	C-8.04 Inspects rigging, hoisting,	C-8.05 Secures lift area	C-8.06 Sets up rigging, hoisting
lask C-8 Performs common rigging, hoisting, lifting and positioning	8		C-8.03 Selects rigging, hoisting, lifting and positioning equipment		S-0.00 Georgies int drea	C-8.06 Sets up rigging, noistin lifting and positioning equipm
	C-8.07 Performs lift and positioning	C-8.08 Maintains and stores rigging, hoisting, lifting and positioning equipment.			1883	
Task C-9 Performs complex and critical rigging, hoisting, lifting and positioning	C-9.01 Prepares lift plan for complex and critical rigging, hoisting, lifting and positioning	C-9.02 Performs calculations for complex and critical rigging, hoisting, lifting and positioning	C-9.03 Selects rigging, hoisting, lifting and positioning equipment for complex and critical lifts	C-9.04 Sets up rigging, hoisting, lifting and positioning equipment for complex and critical lifts	C-9.05 Performs complex and critical lifts and positioning	
D – Installs, Tests, N	laintains, Trouble	shoots and Repa	irs Low and Hig	h Pressure Stear	n and Condensa	te Systems
Task D-10 Installs, tests, maintains, troubleshoots and repairs low pressure steam and condensate systems	D-10.01 Installs equipment for low pressure steam and condensate systems	D-10.02 Installs piping for low pressure steam and condensate systems	D-10.03 Tests low pressure steam and condensate systems	D-10.04 Maintains, troubleshoots and repairs low pressure steam and condensate systems		
Fask D-11 nstalls, tests, maintains, troubleshoots and repairs high pressure steam and condensate systems	D-11.01 Installs equipment for high pressure steam and condensate systems	D-11.02 Installs piping for high pressure steam and condensate systems	D-11.03 Tests high pressure steam and condensate systems	D-11.04 Maintains, troubleshoots and repairs high pressure steam and condensate systems		
E Installa Testa M	Asintaina Traubla	shoots and Bans	oiro Hooting, Cod	ling and Proces	o Dining System	
E – Installs, Tests, N	E-12.01 Installs equipment for	E-12.02 Installs piping for	E-12.03 Tests hydronic systems	1	s Piping System	S
Installs, tests, maintains, troubleshoots and repairs hydronic systems	hydronic systems	hydronic systems		and repairs hydronic systems		
Task E-13 Installs, tests, maintains, troubleshoots and repairs process piping systems	E-13.01 Installs equipment for process piping systems	E-13.02 Installs piping for process piping systems	E-13.03 Tests process piping systems	E-13.04 Maintains, troubleshoots and repairs process piping systems		
Task E-14 Installs, tests, maintains, troubleshoots and repairs industrial water and waste treatment systems	E-14.01 Installs equipment for industrial water and waste treatment systems	E-14.02 Installs piping for industrial water and waste treatment systems	E-14.03 Tests industrial water and waste treatment systems	E-14.04 Maintains, troubleshoots and repairs industrial water and waste treatment systems		
Task E-15 Installs, tests, maintains, troubleshoots and repairs hydraulic systems	E-15.01 Installs equipment for hydraulic systems	E-15.02 Installs piping, tubing and hoses for hydraulic systems	E-15.03 Tests hydraulic systems	E-15.04 Maintains, troubleshoots and repairs hydraulic systems		
Task E-16 Installs, tests, maintains, troubleshoots and repairs heating, ventilation, air conditioning and refrigeration (HVACR) systems	E-16.01 Installs equipment for HVACR systems	E-16.02 Installs hydronic piping and refrigeration tubing for HVACR systems	E-16.03 Tests associated components of HVACR systems	E-16.04 Maintains, troubleshoots and repairs associated components of HVACR systems		
Task E-17 installs, tests, maintains, troubleshoots and repairs fuel systems	E-17.01 Installs equipment for fuel systems	E-17.02 Installs piping and tubing for fuel systems	E-17.03 Tests fuel systems	E-17.04 Maintains, troubleshoots and repairs fuel systems		
Task E-18 Installs, tests, maintains, troubleshoots and repairs medical gas systems	E-18.01 Installs equipment for medical gas systems	E-18.02 Installs piping and tubing for medical gas systems	E-18.03 Tests medical gas systems	E-18.04 Maintains, troubleshoots and repairs medical gas systems		
Task E-19 Installs, tests, maintains, troubleshoots and repairs compressed air and pneumatic	E-19.01 installs equipment for compressed air and pneumatic systems	E-19.02 installs piping and tubing for compressed air and pneumatic systems		d E-19.04 Maintains, troubleshoots and repairs compressed air and pneumatic systems		
systems Task E-20 Installs and tests fire protection systems	E-20.01 Installs equipment for fire	E-20.02 Installs piping for fire protection systems	E-20.03 Tests fire protection systems	prieumatic systems		
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F – Installs, Tests, N	naintains, irouble	snoots and Repa	airs Kenewable E	nergy Systems	Charles and the Control of the Contr	A 1000
ask F-21 nstalls, tests, maintains, troubleshoots und repairs geo-exchange and geothermal systems	F-21.01 Installs equipment for geo-exchange and geothermal systems	F-21.02 Installs piping for geo- exchange and geo-thermal systems	F-21.03 Tests geo-exchange and geothermal systems	F-21.04 Maintains, troubleshoots and repairs geo-exchange and geothermal systems		
Task F-22 installs, tests, maintains, troubleshoots and repairs solar heating systems	F-22.01 Installs equipment for solar heating systems	F-22.02 Installs piping for solar heating systems	F-22.03 Tests solar heating systems	F-22.04 Maintains, troubleshoots and repairs solar heating systems		
Task F-23 Installs, tests, maintains, troubleshoots and repairs heat recovery systems	F-23.01 Installs equipment for heat recovery systems	F-23.02 Installs piping for heat recovery systems	F-23.03 Tests heat recovery systems	F-23.04 Maintains, troubleshoots and repairs heat recovery systems		16.
G – Performs Comr	missioning, Start-	Up and Turnover	A BURNEY C			25-2007
Task G-24	G-24.01 Flushes system	G-24.02 Chemically treats system.		G-24.04 Selects and connects		THE PARTY OF
Prepares system for commissioning, start-up and turnover			commissioning	commissioning equipment		
Task G-25 Commissions systems	G-25.01 Secures commissioning area	G-25.02 Pressurizes system	G-25.03 Inspects system	G-25.04 Corrects faulty conditions	G-25.05 Participates in start-up and turnover procedures	