

Professional Piping Designer Level II Evaluation Form

Effective: 22.8.17

Please consider Level II evaluation for the following candidate: _____

Candidate's Phone Number: _____ Candidate's Email address: _____

How long have you worked with the applicant? _____ Months. From: ___/___ To: ___/___ (mo. /yr.)

In what capacity? Employer __ Supervisor __ Mentor __ Co-Worker __ Client __ Other _____ (Specify)

Instructions to Evaluator: With the skills and knowledge below, rate the candidate of the scale shown per your direct observation –

1				No knowledge demonstrated.
	2			Prepared for but not done
		3		Performed task
			4	Performs task independently
			5	Mentors others on task.
				Skills for PPD Level II
				Pipe Routing Tasks and Deliverables Can explain and define all related to (PFDs, P&IDs, SPECS, Data Sheets, Layouts, ISOs, Spools)
				Equipment Function and O&M Access, explain the Basic Function plus Operational and Maintenance Access Requirements of non-major Equipment (pumps, drums, tanks, exchangers) as Placed (typical nozzles, manways, "soft volumes") with attention to safety concerns
				Pipe Spool & Field Pipe Fabrication, testing and inspection
				Plant Assembly, plan and sequence lifts, field and fit up welds, explain Hydrotest, insulation, labeling,
				PFDs Q/A drafting information from P&IDs, explain functional purpose of items shown and Q/A information from Equipment Data Sheets & Drawings, correctly interpret, use and Q/A information from (Vessels, Pumps, etc.) to build 3D models compatible with Plant CAD system, using available macros and commands.
				Item Data Sheets or dimensional standards, correctly interpret, extend and Q/A information from (Instruments, valves, etc.) to build 3D models compatible with Plant CAD system, using available macros and commands.
				Equipment Layouts, explain the general layout process, correctly interpret, use and Q/A information from (i.e. point to point distances, relative orientations, etc.) and infer access provided for construction, operations and maintenance.
				Piping Material Specification, correctly interpret and Q/A information from and repurpose into CAD and similar systems.
				Piping Layouts, correctly interpret, use and Q/A information from (ISO from 2 views) while anticipating fabrication, erection, inspection and testing. (High Point Vents, Low Point Drains, sloped lines, no pockets, no flat turns, etc.)
				Pipe Supports, proper use of and correct placement of standard types of pipe supports (Pipe Shoes, Dummy Legs, Pipe Stands/Stanchions, Anchors and Guides, Hangers
				Specialized Piping Systems consider commonly encountered system needs (Underground Piping, Steam and Condensate, Cooling Water Supply and Return, Air Systems (Instrument, Plant), Flare System, Utility Station) and apply standard details.
				Piping Fabrication Isometrics, correctly interpret, use and Q/A information from Pipe Racks, management of available space and preferential assignment of pipe to zones
				Equipment Identification and Field Measurements, accurately determine using manual methods and utilize laser data for design (sufficiency for tie-in, clash free routing, confirmable reference points, point clouds, etc.)
				P&ID/Pipe Route Checking of completed routes (Correct components in right order and orientation, fulfillment of all instructions and notes, etc.)
				Pipe Route to ISO Sufficiency (Dimension determined and per standards, indication of FW & FFW's), Flange orientations to match equipment, etc.)
				Maintenance-Isolatable equipment, design piping, bypass, block/bleed, blow-downs/drains, etc., per accepted practice (CV Station, Centrifugal Pump, Relief Valve, etc.)
				Piping CAD, Piping DB concepts (connectivity, alignment, clash check, hard/soft volumes, reference models, library backup, point clouds, etc.)

I would rate the candidate as accumulating _____ years' of experience showing the competencies listed above.

In the space provided below please share any professional or personal comments regarding the candidate's experience or character:

Evaluator's Name, Company Employed at Presently (location) & Date of your Signature:

Evaluator's Phone Number: _____

Evaluator's Email Address: _____