
September 2022 SPED Update

1 message

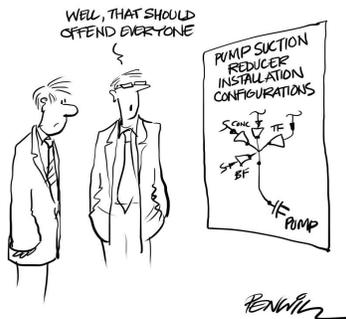
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Mon, Sep 12, 2022 at 5:40 AM



Society of Piping Engineers and Designers

September 2022 SPED Update



Membership News

SPED Courses - Completed

Susan Yu, HPC
Ricardo Cervantes, PBC
Anil Jagannath Kamble, PBC
Sameer Bandopant Kulkarni, PBC
Somnath Roy, PBC
Jeffery Hosford, PBC

Memberships - New & Renewal

Zahra Monajati

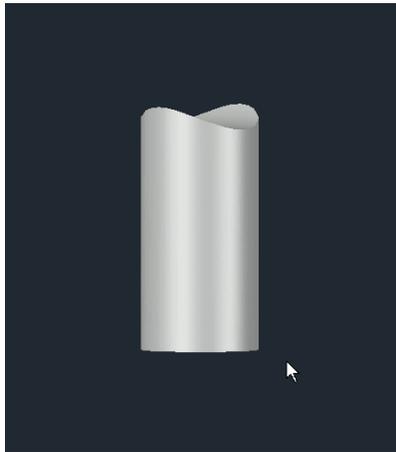
Andy Andrews
Kim Campbell
Carlos Castillo
Beline Mele
Keith Perry
Tyler Guelfo
Krisjon Sisson
Shanmugasundaram Subrumanium
Filiberto Hinojosa

PPD Certification Enrollments

Mark Daniel Ventura, L2
Anil Jagannath Kamble, L1
Sameer Bandopant Kulkarni, L1
Somnath Roy, L1
Ricardo Cervantes, L1
Kris Haines, L1 and L2
Akram Ayman Abd Elmoneim Taha, L1
Islam Khaled Issa Metwally, L1
Conor Mallon, L1 and L2

PPD Exam Completed

Expedito Rafael Mangué, L2
Fares Ahmed Mohamed Ali, L1



How to Break Pipe

This symbol drawn correctly often eludes new pipers (and some who are not-so-new). The video above shows what you're actually looking at when you see a pipe cut symbol on a piping drawing. See also:

<https://pipingdesignapprentice.blogspot.com/2016/07/mechanical-drafting-101-how-to-break.html>

Workstation Minimums for 2022 and Beyond

- Cheap workstations don't save you money. They only make your software operate slower and soon become obsolete.
- Upgrading later usually isn't cost effective. The idea that you can under configure a machine today and upgrade it next year is usually fool's gold. When you consider how quickly technology changes and consider the IT labor required to upgrade anything other than an SSD or maybe a graphics card, it just doesn't make sense.
- Workstations are dirt cheap and help retain key staff. I see plenty of companies that have 5-year-old boat anchor computers that drive away CAD power users. I recently spoke to one user who said, "If the company can't shell out \$3,000 to update our technology, why would they ever give me a raise?"

<https://www.cadalyst.com/design-related-technologies/workstations/workstation-minimums-2022-and-beyond-79650>

Upcoming SPED Online Live Demos in September and October

For further information and enrollment please contact
catherine_van_der_walt@spedweb.com

[PlantStream Online Live Demo](#)

"This system has converted the expertise of skilled plant engineers into algorithms, achieving a new era in automatic design with world-leading precision and speed. It dynamically revolutionizes the EPC industry's long-standing workflow inefficiencies with the power of software."

<https://plantstream3d.com/>

[Python Valve \(for Plant 3D\) Online Live Demo](#)

"When you want add actual lifelike looking valves into your Plant3D model, you have two choices. Either you use the standard Plant3D geometry, which looks a bit odd sometimes. Or you import some geometry from other 3D software. But in this case you will soon run out of your computer power, because these step, iges, or even the inventor files are not optimized for repeated usage in Plant3D. You might need to insert the same valve dozens or hundreds of times in the same model. A third very boring option is to make Autocad blocks for each valve-type and size. But if you have 10 types and 20 sizes for each, then we are talking about two hundred different blocks."

<https://www.tamashalasz.com/python-valve/>

[3D Pipe Tools for Plant 3D Online Live Demo](#)

"This program allows you to more easily build 3D pipes in AutoCAD according to the pointcloud, join them with elbows, reducers, t-joints, extract centerlines."

<http://www.gorkovchuk.com/3dptools.html>

What are V-Port Ball Valves and How Do They Work?

<https://www.processindustryforum.com/article/what-are-v-port-ball-valves-and-how-do-they-work>

SPED Course Bundle Including PPD Certification - Limited Time Offer

Back by popular demand - SPED is offering a bundle price for either one of its three online courses, Piper Bootcamp, Process Plant Layout or Level II QA. For the price of one of the courses - \$1400.00 plus membership, both the course, PPD Certification and application is included. This is a US\$300 plus savings.

For further information and enrollment please contact
catherine_van_der_walt@spedweb.com

PFHE & CWHE Comparison in LNG Plant

"Main Cryogenic heat exchanger (MCHE) is one of key equipment in natural gas liquefaction (LNG) plant."

"CWHE is coils/tubes wound in spiral around a mandrel and all coils / tubes are contains within a pressure vessel."

<https://webwormcpt.blogspot.com/2010/07/pfhe-cwhe-comparison-in-lng-plant.html>



Smart and Smarter P&IDs

"Smart and smarter P&IDs can make innovation easy and easier, giving smart and smarter process control improvements. Let's all hope that when the guy who really knows what is going on retires, we are not left in the dark." <=== LOL

Top Ten Things You do not Want to Hear about Engineering Drawings

(Courtesy of Michel Stenning, Gil Soucy, and Hector Torres)

10. Why keep constantly updating the engineering drawings if things will keep changing anyways? We'll deal with all changes after mechanical completion.
9. Cannot find that little black notebook where I used to keep track of all changes... where could it be?
8. Who needs accurate engineering drawings?
7. We have had this same set of drawings for 30 years now, they must be OK.
6. Where are my marked prints?
5. The control folks can deal with this outdated rev, up to date drawings are overrated.
4. Updating documents is at the bottom of my priority list. Management has moved me onto a new higher valued activity.
3. Was that napkin really the only copy of that drawing we had?
2. They completed construction using revision 1 of the drawing. Unfortunately, the current drawing is revision 7.
1. When you are deep into construction you realize most of the drawings are stamped "Undeveloped Design, Field Fabricate."

<https://www.controlglobal.com/articles/2022/smart-and-smarter-p-and-ids/>

Do Most Shops Create 2D AutoCAD Underlay Drawings for the 3D Modelers?

Video of pipe rack modeling

https://www.youtube.com/watch?v=u54d-Clrkc&t=794s&ab_channel=AP3D-KH%28AutoCADPLANT3D%29

New Course Announcement - Piping Quality Assurance (PPD Level II Preparation)

SPED is pleased to announce its latest addition to the Piper Video Series, Piping Quality Assurance. The course reviews the latest principles and methods available to check process plant layout and piping designs in today's digital world. The Society of Piping Engineers and Designers (SPED) began an analysis of piping assurance checklists and practices as part of its four level Professional Piping Designer (PPD) Certification Program. Level II, Pipe Assurance, assesses the quality assurance of pipe, plus a working knowledge of selected specialty piping systems. Under the direction of the PPD Advisory Committee and the SPED Board of Directors, contributed checklists and practices were distilled into a set of slides and reviewed by experts. Strong attention was paid to assurance of 3D plant models and their extracted documents and data sets. The general principles and methods found are presented in this course.

For more information contact
catherine_van_der_walt@spedweb.com

Where Should I Install My Thermowell? A Guide for Best Practices

Free to SPED Members - High Purity Piping Module

The SPED Board has released its new module on High Purity Piping. The module is free to SPED members. High-Purity piping is important in many industries, including:

- Food, Dairy, and Beverage
- Pharmaceutical
- Bioprocessing
- Semi-Conductor

This module is a quick overview of the standards and practices utilized in High-Purity piping and equipment.

The module is free to all SPED members. Registration can be done yourself, with the enrollment key given to you by this office.

For more information contact
catherine_van_der_walt@spedweb.com

SMEs Wanted for PPD Advisory Committee and New SPED Courses

The goal is to collect knowledge of specialty design practices and unique process equipment found in non-refining / power plant disciplines which utilize piping.

- cryogenics piping
- polymer piping
- solids (powders) piping
- food grade piping
- brewery piping
- steam piping
- pharmaceutical piping
- electronics fab piping
- pulp & paper

REMINDER TO SPED MEMBERS TO UPDATE THEIR PROFILES AND PROVIDE A NON-WORK CONTACT EMAIL ADDRESS

Many SPED members use their work email address when they join SPED, but this means that we will lose your contact details if you change jobs. Login at spedweb.com and keep your email address up-to-date.

Fluid Service Category According to Process Piping B31.3

"Fluid service is a general term, considering the application in piping system with taking in consideration the fluid properties, pressure, temperature and service condition.

As per ASME B 31.3 Fluid services are divided into 4 types i.e. D, M, N, K"

<https://thepipingtalk.com/fluid-service-category-according-to-process-piping-b31-3/>

Professional Piping Designer Certification
GET CERTIFIED WITH SPED
FOR MORE INFORMATION: EMAIL CVDM@SPEDMEL.COM OR CALL +1 713-960-4678

Are You Certified?
When choosing among piping, clients and employers know that Certified Professional Piping Designers (PPDs) meet the specific requirements of the process piping industry.

Enable the Certification (SPED) Membership Status
First Name: _____ Last Name: _____
Email: _____ Phone: _____
Address: _____
City: _____ State: _____ Zip: _____

LEVELS OF PPD CERTIFICATION
Level I: Basic PPD, Properly Trained
Level II: Advanced PPD, Organic Work
Level III: Senior PPD, Independent Producer
Level IV: Lead PPD, Manager, Assure Work

About Certification
All PPD Levels require proctored testing. Currently, level progression is based upon years of experience, education, and industry references. Level IV requires proven past supervisory experience.

Steps to PPD Level I Certification
1. Submit a completed certification application form along with your resume and three references.
2. Pass the PPD Level I Examination.
3. SPED will review your application and assess results and determine if all criteria have been met. If all criteria are met, SPED awards certification.
4. Annually renew your PPD Certification at www.spedweb.com.

Steps to PPD Level Advance
1. To advance PPD Level, submit a completed certification application form along with your resume and three references.
2. Pass the appropriate PPD Level examination.
3. SPED will review your application and assess and determine if all criteria have been met. If all criteria are met, SPED awards certification. PPD Level II may require a review by the SPED Board of Directors.
4. Annually renew your PPD Certification at www.spedweb.com.

Two Steps to Renew
1. Complete and document the required PPD Professional Development Units (PDU) by logging in to your SPED account profile at www.spedweb.com.
2. Go to www.spedweb.com, click on your / Renew.

SPED Membership is not necessary for certification.

Piping Designer Field Gear Carry Vest - Now Available



Email vest@pipingdesign.com

Flexicraft is your one call for every style of expansion joint and flexible connector.



(Click link for video)

Don't forget that SPED is always on the lookout for member-written piping-related articles to publish at the website

See you all next time!

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