



Pipe UA LOCAL 393
Trades
TRAINING CENTER

To register email
will@pttc.edu



Technology Training

Fall 2022

AutoCAD

Instructor: Jacob Ziegenhagen

Dates: 08/22/2022 - 10/26/2022

Monday / Wednesdays 5:00PM - 8:00PM

This class will be taught live on the Zoom platform

Procore for the Field

Instructor: Ray LeVangie

Dates: 09/12/2022 - 10/15/2022

Monday / Wednesdays 5:00PM - 7:00PM

This class will be taught live on the Zoom platform

Revit

Instructor: Cesar Garcia

Dates: 08/22/2022 - 01/23/2023

Monday / Wednesdays 5:00PM - 8:00PM

This class will be taught live on the Zoom platform

Autodesk Fabrication

Instructor: James King

Dates: 10/31/2022 - 01/23/2023

Monday / Wednesdays 5:00PM - 8:00PM

This class will be taught live on the Zoom platform

Robotic Total Station

Instructor: Paul Garcia

Dates: 09/06/2022 - 10/11/2022

Tuesday 5:00PM - 8:00PM

This class will be taught in person

Bluebeam Revu

Instructor: Melissa Allison and Adam Vreeland

Dates: 10/17/2022 - 11/9/2022

Monday / Wednesdays 5:00PM - 8:00PM

This class will be taught live on the Zoom platform



A Lifetime of Empowerment



Jacob Ziegenhagen

Questions about this class?

Contact me:

Jacob.Ziegenhagen@therma.com

ABOUT ME

I joined Local 393 at 19 after working and competing as a diesel mechanic and combination welder for a combined 4.5 years.

I came to 393 to weld as a pipe fitter, got dispatched as a plumber, placed 2nd at state as a 3rd year plumbing apprentice, and now I work and teach as an AutoCAD Detailing Professional.

As a builder and a video game enthusiast, the construction technologies fascinate me. I hope to never stop learning and honing my craft.

To register, email
will@pttc.edu

AutoCAD



Journey Level Continuing Education



Fall Semester 2022
August 22 - October 26, 2022

Mondays & Wednesdays 5PM - 8PM
1/2 SEMESTER CLASS

AutoCAD

This class will be taught live on the Zoom platform

COURSE DESCRIPTION

This course covers the fundamentals of how to use 2D AutoCAD with a focus on the plumbing and mechanical trades. No prior experience in AutoCAD is needed.

OUTCOMES

Students will gain an understanding of AutoCAD basic fundamentals and will be able to move on to the Autodesk Fabrication course.

IN THIS COURSE

We will cover topics such as:

- Navigating the AutoCAD interface
- Lines and Circles
- Dimension Overview
- Xrefs
- Clean up of ortho 2D engineered process piping
- Title Blocks
- 3D Solids

PREREQUISITES

Must pass the **Windows Skills Assessment** test



A lifetime of empowerment



Cesar Garcia

Questions about this class?

Contact me:

CesarMGarciaConsulting@outlook.com

ABOUT ME

I have a B.S. in Construction Management and have worked for Plumbing and Mechanical Contractors for over 25 years.

I've served as Site GF and Project Superintendent.

I've taught AutoCAD for 5 years and have been training Revit Fundamentals since 2019.

To register, email
will@pttc.edu

Revit



Journey Level Continuing Education



Fall Semester 2022
August 22 - January 23, 2023
Mondays & Wednesdays 5PM - 8PM
FULL SEMESTER CLASS

Revit

This class will be taught live on the Zoom platform

COURSE DESCRIPTION

This course covers the basics of how to use Revit with a focus on the plumbing and mechanical trades. No prior experience in Revit is needed.

OUTCOMES

Students will leave this course with an understanding of the fundamentals of Autodesk Revit.

They will be able to navigate through the Revit environment, set-up sheets, create piping and plumbing schedules, work with piping systems, work with Revit Families, draw & annotate piping systems.

IN THIS COURSE

We will cover topics such as:

- Revit Overview
- The Revit User Interface
- Revit Components
- Modify & Editing Tools
- Piping Basics
- Visibility and Graphics
- Linking Revit Models
- Annotating in Revit
- Revit Schedules
- Creating Sheets and Views in Revit
- Working with CAD Files and Point Clouds
- Revit 3D Views
- Revit Parameters

PREREQUISITES

Must pass the **Windows Skills Assessment** test



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Paul Garcia

Questions about this class?
Contact: Will Rodriguez - Will@pttc.edu



To register, email
will@pttc.edu

Robotic Total Station



Journey Level Continuing Education



Fall Semester 2022
September 6 - October 11, 2022
Tuesdays 5PM - 8PM
6 NIGHTS

Robotic Total Station

This class will be taught in person at *Pipe Trades Training Center*

COURSE DESCRIPTION

Robotic Total Stations are a significant advancement in layout means and a standard tool for contractors who need fast, reliable, accurate layout measurements.

OUTCOMES

This course will equip students with fundamental skills and knowledge to effectively operate a Trimble Robot Total Station layout instrument utilizing a Trimble Tablet device and Trimble Field Link software.

IN THIS COURSE

We will cover topics such as:

- Effectively setup a Trimble Robot Total Station instrument and set benchmarks.
- Import point data and CAD background files to Trimble Tablet device.
- Create data in the Trimble Tablet.
- Layout points utilizing both prism and DR modes (laser)
- Export and import as-built and point data files.
- Effectively calibrate Trimble Robot Total Station instruments.

PREREQUISITES

None



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Ray LeVangie

Questions about this class?
Contact me: ray.levangie@pttc.edu

ABOUT ME

I am a UA certified instructor specializing in Building Codes, Building Information Modeling, and Project Management.

As a 3rd generation UA member, I have been fortunate to be associated with many hallmark projects throughout California as a piping professional for over 15 years.

I've enjoyed sharing my professional experience as a 10+ year instructor teaching throughout the state and country.

To register, email
will@pttc.edu

Procore for the Field



Journey Level Continuing Education



Fall Semester 2022
September 12 - October 5, 2022

Mondays & Wednesdays 5PM - 7PM
TWO HOUR CLASS - 8 NIGHTS

Procore for the Field

This class will be taught live on the Zoom platform

****This class is designed for all Journey Level workers regardless of if they have run work before or not*

COURSE DESCRIPTION

Procore for the Field will be an 11-night journey into the construction management tool Procore.

Procore is becoming industry standard and has been utilized in many projects throughout the world. It will continue to be a next-level tool for today's piping professionals.

This software helps Journey Level field professionals navigate all project documents, drawings, models, and RFI's, but also does so much more. Procore was designed to aid the daily tasks of construction workers and enhance planning, communication to the construction team, and collaboration with other trades on the job.

OUTCOMES

Our class will take an existing project and we will manage it from cradle to grave.

Upon completion, students will have a well-rounded understanding of Procore's wide-ranging capabilities to make your daily tasks easier, solve problems and coordination issues in less time, and help build successful projects.

At the end of class, students will be able to test for and earn Procore's **Field Worker Certification**.

IN THIS COURSE

We will cover topics such as:

- Navigating the interface
- Access project drawings, submittals, and more
- Creating and tracking RFI's
- Creating and posting Daily Logs
- Punch List creation and tracking
- Collaborate with other trades to avoid scheduling conflicts

PREREQUISITES

Must pass the **Windows Skills Assessment** test



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James King

Questions about this class?
Contact me: jking@therma.com

ABOUT ME

Since 1996, I've detailed everything from underground sanitary to sanitary stainless for Bio-Pharma.

I've solved coordination issues with Engineers, Architects, and General Contractors.

I enjoy sharing my knowledge and have been training Fabrication for 10 years.

To register, email
will@pttc.edu

Autodesk Fabrication



**AUTODESK
FABRICATION**

Journey Level Continuing Education



Fall Semester 2022
October 31 - January 23, 2023
Mondays & Wednesdays 5PM - 8PM
1/2 SEMESTER CLASS

Autodesk Fabrication

This class will be taught live on the Zoom platform

COURSE DESCRIPTION

This class will teach AutoCAD Fabrication with a heavy emphasis on the use of Design Line. It will also dip into LISP functions which can make us more efficient.

OUTCOMES

Students will leave with the knowledge and awareness of how AutoCAD Fabrication functions, the use of services, service templates, sections, insulation schedules, and hanger schedules.

IN THIS COURSE

We will cover topics such as:

- Overview of the Fabrication interface
- Selecting a Service
- Stick build on system from 2D project
- Applying a Design Line to a 2D Service
- Complete project
- Apply annotation
- Spooling a Service
- Navisworks clash detection

PREREQUISITES

Must pass the **Windows Skills Assessment** test
Must complete **AutoCAD** (if never taken and/or not currently using AutoCAD)



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**Melissa Allison
Adam Vreeland**

Questions about this class?
Contact me: melissa@pttc.edu

ABOUT MELISSA

I've been supporting technology in the Construction Industry for over 20 years.

Out of all that time, my absolute favorite piece of software for leaders and teams in the field is Bluebeam Revu.

ABOUT ADAM

As a third generation Steamfitter and with 30 years in the field, I felt it was time to give back in the classroom. I've found Bluebeam to make a powerful positive impact on my day to day job site tasks.

**To register, email
will@pttc.edu
Bluebeam**



Journey Level Continuing Education



Fall Semester 2022
October 17 - November 9, 2022
Mondays & Wednesdays 5PM - 8PM
8 NIGHTS

Bluebeam Revu

This class will be taught live on the Zoom platform

COURSE DESCRIPTION

Bluebeam is a powerful PDF editor and markup tool specifically designed for the Construction Industry. It can assist with many tasks on the job site including communication, planning, organization, and collaboration with others.

This course will cover many of the basics of how to use Bluebeam as well as introduce work flows that will make your job easier and your hours more efficient.

OUTCOMES

Students will leave this course with an understanding of the common tools in Bluebeam as well as some advanced concepts and work flows.

IN THIS COURSE

We will cover topics such as:

- Navigation of the interface
- Markup Tools
- The Tool Chest
- Markups List
- Spaces and Layers
- Managing Drawing Sets
- Compare Drawings

We will cover workflows such as:

- Takeoff
- Layout
- RFI
- Isometric drawing
- Diagramming
- iPads in the field

PREREQUISITES

Must pass the **Windows Skills Assessment** test



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