

**Date of Meeting:** 04/03/2020

**Time of Meeting:** 1:00 pm

**Program(s) of Study:** HVAC; Machine Tool Technology; Plumbing Tech; Precision Metal Working; Sheet Metal Technology; Welding

**CIP Code(s):** 47.0201; 48.0501; 46.0503; 48.0599; 48.0506; 48.0508

**Meeting Attendees:**

Instructor	Email Address	Present?
Mike Arnt	marnt@lancasterctc.edu	x
Todd Staub	tstaub@lancasterctc.edu	x
Don Yordy	dyordy@dcts.org	x
Trevor Fronk	tfronk@ytech.edu	x
John Pokrivka	jpokrivka@cpavts.org	x
Kyle Young	kyoung@lancasterctc.edu	x
Ian Weber	iweber@lancasterctc.edu	x
Don Bennett	dbennett@dcts.org	
Terry Jamison	tjamison@ytech.edu	x
Jason Fogleman	jfogleman@cpavts.org	x
David Wise	dwise@lancasterctc.edu	x
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Doug Stevens	dstevens@lancasterctc.edu	x
Dan Harsh	dharsh@lancasterctc.edu	x
Doug Long	dlong@lancasterctc.edu	x
Andrew Huber	ahuber@lancasterctc.edu	
Bill Good	wgood@dcts.org	x
Kelly Wilson	kwilson@ytech.edu	
Brian Yarrison	byarrison@ytech.edu	x
Keith Hammond	khammond@cpavts.org	

**Additional Attendees:** Cindy Gross – PDE; Frank Flamini – DCTS;

**Comments/Suggestions/Ideas worth sharing:**

- Miller Welding has some great online training resources that you can modify and is grade specific
- Modern Welding 10<sup>th</sup> Edition comes with computer model database. Goodhart Wilcox is the publisher. You can get updates and download new versions of the book.
- American Welding society offer lots of online training and resources
- Try doing a video of yourself performing HVAC tasks and posting on learning platform. Students like that.
- Check out Tom's Techniques YouTube channel for great instruction and tips
- Try the Quizlet app for testing students. Type in Welding in the search bar and see that they have lots of free training/testing.
- Manufacturers Association is willing to do Zoom meetings demo for students from a mill. Call local mill and see if you can get them to do a video/ Zoom with your students.
- NIMS sent out an email discussing the fact that they could proctor for NIMS testing
- Check out virtual field trips on YouTube related to welding/machining
- Contact your OAC to see if any of those facilities might be willing to do a ZOOM meeting from their facility for your students.
- There are a number of welding video games like Kemppi.com
- Check out the Lincoln Electric Virtual Reality Welding Simulator
- Mastercam University has free online training content through 6/30/20. Log on, create account and download free home version.
- ToolingU SME is a great resource for online training.
- NC Viewer is a free app that can be embedded into Autodesk® Fusion 360™ CAM workspace. Once installed, it allows a user to drag and drop NC code live into the NC Viewer palette and watch a simulation of the code within Autodesk Fusion 360
- Try RulerGame – a fun way to learn to read rulers

### Instructional Resources worth sharing:

- Miller Welding online training: <https://www.millerwelds.com/industries/welding-education-and-training>
- American Welding Society online training: <https://www.aws.org/education>
- YouTube – Tom’s Techniques: <https://www.youtube.com/channel/UCqR9wRW2JYXOlpgiN8C0dlg>
- Quizlet testing app: <https://quizlet.com/>
- NIMS: <https://www.nims-skills.org/>
- Lincoln VR Welding Simulator: <https://education.lincolnelectric.com/products/welding-training-systems/virtual-reality-welding-simulators/>
- Kemppi welding video game: <https://www.kemppi.com/en-US/diary/schweissen--schneiden-2017/welding-game-is-challenging-people-to-compete/>
- Mastercam University free online training: <https://www.mastercam.com/news/blog/free-training-available-from-mastercam/>
- Tooling U SME – online training: <https://www.toolingu.com/>
- NC Viewer free app embeds in Fusion 360 Autocad Desk: <https://apps.autodesk.com/FUSION/en/Detail/Index?id=2936176173947597837&appLang=en&os=Win64>
- RulerGame – Training game to learn to read rulers: <https://www.rulergame.net/>

Comprehensive List of Cross-Program, Universal Resources on TechLink website:

<https://www.techlinkpa.com>

