

Date of Meeting: 04/03/2020

Time of Meeting: 11:00 am

Program(s) of Study: Electrical & Power Transmission Installers; Electrical, Electronic & Communications Engineering Tech; Electromechanical Engineering Tech; Engineering Technologies

CIP Code(s): 46.0399; 15.0303; 15.0403; 15.9999

Meeting Attendees:

Instructor	Email Address	Present?
Brian Myers	bmyers@lancasterctc.edu	X
Ryan Liddick	rliddick@dcts.org	X
Travis Brown	tbrown@ytech.edu	X
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Rob Sealover	rsealover@ytech.edu	X
Matt Freeman	freemanm@carliseschools.org	X
Kevin Schlusser	kschlusser@ytech.edu	X

Additional Attendees: Frank Flamini -DCTS, Chuck Benton - Dover, Cindy Gross - PDE, Scott Lindsey – CPAVTS; Jeremy King – Lancaster; Al Parrillo – Carlisle; Mike Moeller - Lancaster

Comments/Ideas/Notes worth Sharing:

- Try communicating with students via WhatsApp on cell phone, which can actively engage students.
- Time to step out of comfort zone and learn and grow in order to assist students and meet them where they are.
- Remind.com allows you to get in touch and stay in touch with students.
- Students are concerned with apprenticeship certifications, and ABC is deciding whether or not they will continue with the apprenticeship.
- Try sharing files on Google Drive and supplement communication with Zoom Meetings.
- Autodesk software can be downloaded for free, including 123Design and Fusion 360
- Cloud-based 3D modeling is available with OnShape.
- Google SketchUp works with iPads
- If you're using Schoology, try suggesting that your students use it after hours because of the drag on the platform created by everyone using it at the same time.
- OnShape allows for pretty in-depth and inventive drafting work
- OBS Studio broadcaster free download software allows for screen capture
- Try using EdPuzzle, a video lesson software, to gauge student's comprehension and engagement
- EC&M Online News and Blog site electronics articles integrate well with learning platform.
- NCCER offers all sorts of remote training resources and also remote proctoring
- Try "Engineering Mindset" Videos on Youtube
- Discord is an app for chatting that many students have already
- Code Academy and IDE work well for coding needs
- Amazon Future Engineer looks promising as a virtual robotics design platform
- Try using Universal Robots simulator to make supplemental videos

- ScreenCastify is another great platform for making videos
- Try Caterpillar University for Cat Technician training and resources
- Code Academy and IDE work well for coding needs
- A subscription to the ETCAI electronics learning modules can be continued remotely. Not sure if the Student Electrician Exam can be administered.
- For many schools, grading and IEP's will be handled with caveats and may be based on completion. For instance, if a student completes 80% of an assignment, they will get an 80% for a grade, unless they didn't put any effort into and didn't try to do the assignment. Then the instructor might have leeway to say this is not 80% work, you didn't even try, and so do it again.
- With IEPs, be sure to document everything. Biggest issue with Special Education is equal access. We have to be sure to identify those students who have not logged on during this interim period and reach out to them. Communication is key. Documentation is key.

Instructional Resources worth Sharing:

- WhatsApp – Messaging app for all devices: <https://www.whatsapp.com/>
- Zoom Conferencing: <https://zoom.us/>
- Autodesk – 123Design – free software: <https://autodesk-123design.en.lo4d.com/windows>
- Discord – App for chatting with students: <https://discordapp.com>
- Remind – 3rd Party Communication App: <https://www.remind.com/>
- OnShape – Cloud-based 3D modeling: <https://www.onshape.com/>
- Google SketchUP Design Software: <https://www.sketchup.com/>
- Autodesk Fusion 360 preview version: <https://www.autodesk.com/products/fusion-360/overview>
- OBS Studio for screen capture: <https://obsproject.com/>
<https://www.pcworld.com/article/3314721/obs-studio-review.html>
- EdPuzzle video enhancing software: <https://edpuzzle.com/>
- EC&M OnLine Magazine and Blog: <https://www.ecmweb.com/>
- NCCER remote training and proctoring: <https://www.nccer.org/>

- Northeastern University – Crash course in engineering:
<https://www.northeastern.edu/landherr/stem-videos/crash-course-engineering/>
- Electronics Sites/Tools:
 - <https://www.tinkercad.com/circuits>
 - <http://www.pyroelectro.com/>
 - <https://www.youtube.com/sparkfun>
- Engineering Mindset videos on YouTube:
<https://www.youtube.com/channel/Uck0fGHsCEzGig-rSzkfCjMw>
- Amatrol LMS: <https://amatrol.com/product/elearning-interactive-exercise/>
- Code Academy: <https://www.codecademy.com/>
- Amazon Future Engineer – virtual robotics design platform:
<https://gocoderz.com/amazon-future-engineer/>
- Universal Robots Simulator: <https://www.universal-robots.com/plus/urplus-components/software/robodk-simulation-and-offline-programming/>
- Screencastify video making platform: <https://www.screencastify.com/>
- Cat Technician training and review:
<https://www.caterpillaruniversity.com/service-training>
- ETCAI Electronics Learning Modules subscription: <https://www.etcai.com/>

Comprehensive List of Universal Resources on TechLink website:

<https://www.techlinkpa.com/>

