PAH / PYP EDUCATION PROGRAM

Online Training Update

The University of Texas at Austin
Petroleum Extension (PETEX®)
Cockrell School of Engineering

AGENDA

- Education Program Background
- Overview of Design Modules
- Live Demo
- Value of New Training
- Next Steps in Program
- Questions

NEXT GENERATION COMPETENCY

- Educate the future of our industry with applicable and easily available materials
- Close the potential loss of information our industry is facing through retirement by implementing a mentorship program
- Raise and encourage organizational awareness through networking

PAH / PETEX AGREEMENT

- PAH agreement with PETEX - 2019
  - Develop 3 Pipeline Technology online modules – Design, Operations, and Maintenance
  - Deliver the Design Module in 2020
  - PAH/PYP will provide SME's to develop and review content
  - PETEX to convert existing in-person classes to online versions
- Offer online modules at no cost to PAH members for 10 years
- Deliver content through UT-PETEX Learning Management System

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PETEX

- Petroleum Extension – Cockrell School of Engineering at The University of Texas at Austin
- Founded in 1944
- #1 Oil & Gas industry training program
- 5,000 companies trained, and over 700K students
- Upstream, Midstream, Downstream, and HSE Training
- In-person and Online training options available

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THE PIPELINERS ASSOCIATION OF HOUSTON
EST. 1953

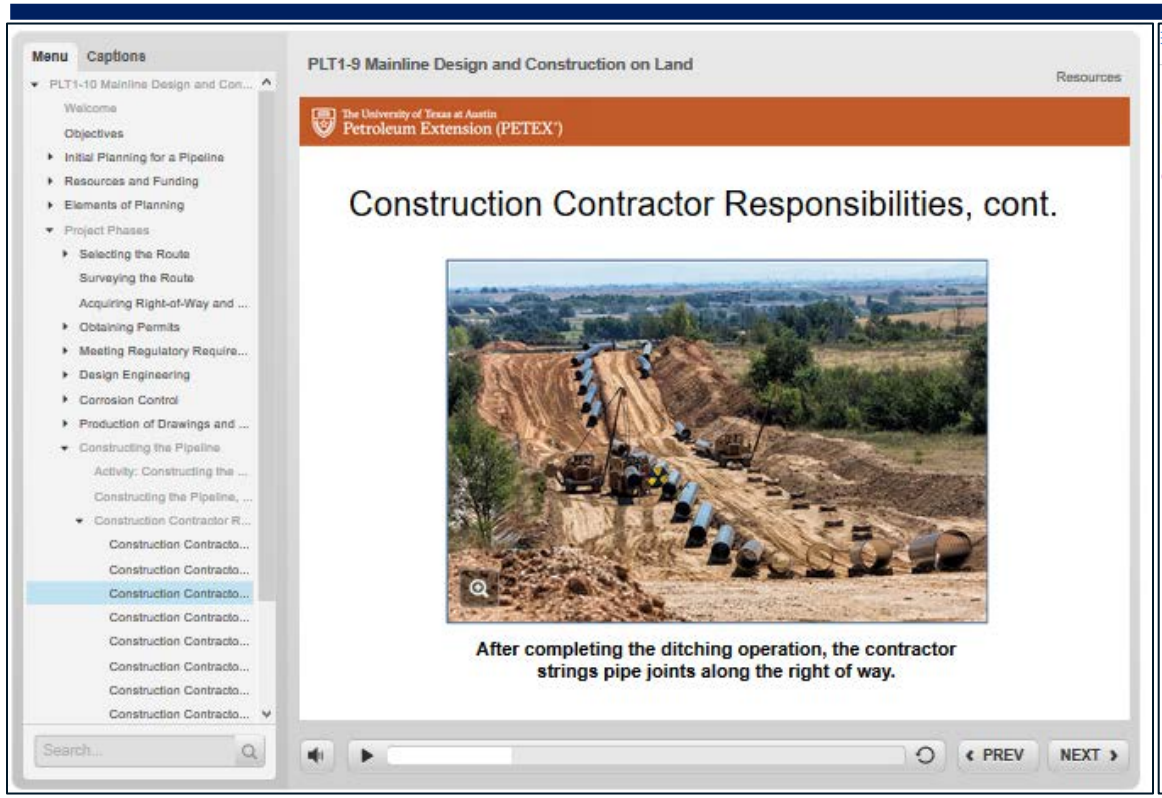
PIPELINE ONLINE TRAINING

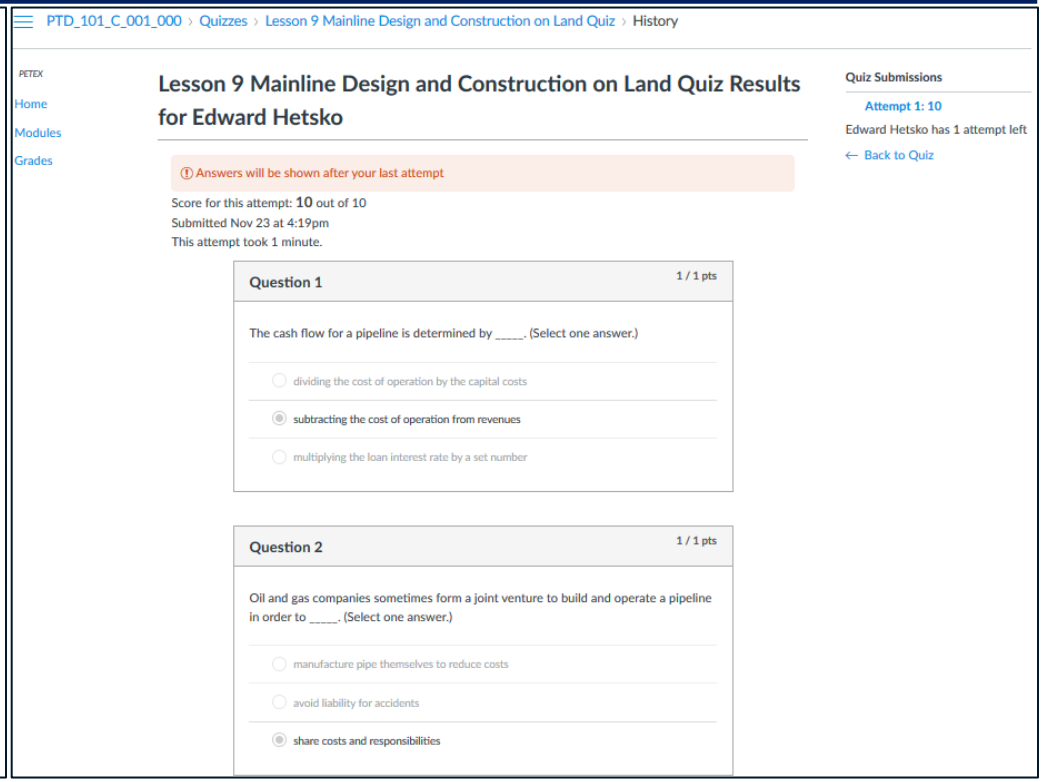
- Available to all members of the Pipeliners Association of Houston at no cost for the next 10 years
- 3 modules
  - 2020 – Pipeline Technology Design
  - 2021 – Pipeline Technology Operations
  - 2022 – Pipeline Technology Maintenance
- Convert in-person training sessions to online course
- PAH Subject Matter Experts (SMEs) help develop and review content with PETEX

PIPELINE TECHNOLOGY – DESIGN MODULE

1. Pipeline Regulations
2. Right-of-Way Contracts
3. Electric Prime Movers for Pipeline Pumps
4. Pipeline Pumps: Application, Parameters, and Operation
5. Pipeline Hydraulics
6. Analysis and Control of Hydraulic Surges: Theory and Equations
7. Analysis and Control of Hydraulic Surges: Hydraulic Surge Scenarios
8. Analysis and Control of Hydraulic Surges: Control Devices
9. Mainline Design and Construction on Land
10. Pump Station Design and Construction

EXAMPLES OF LESSONS & QUIZZES





DEMO OF MODULE, LESSONS, & QUIZZES

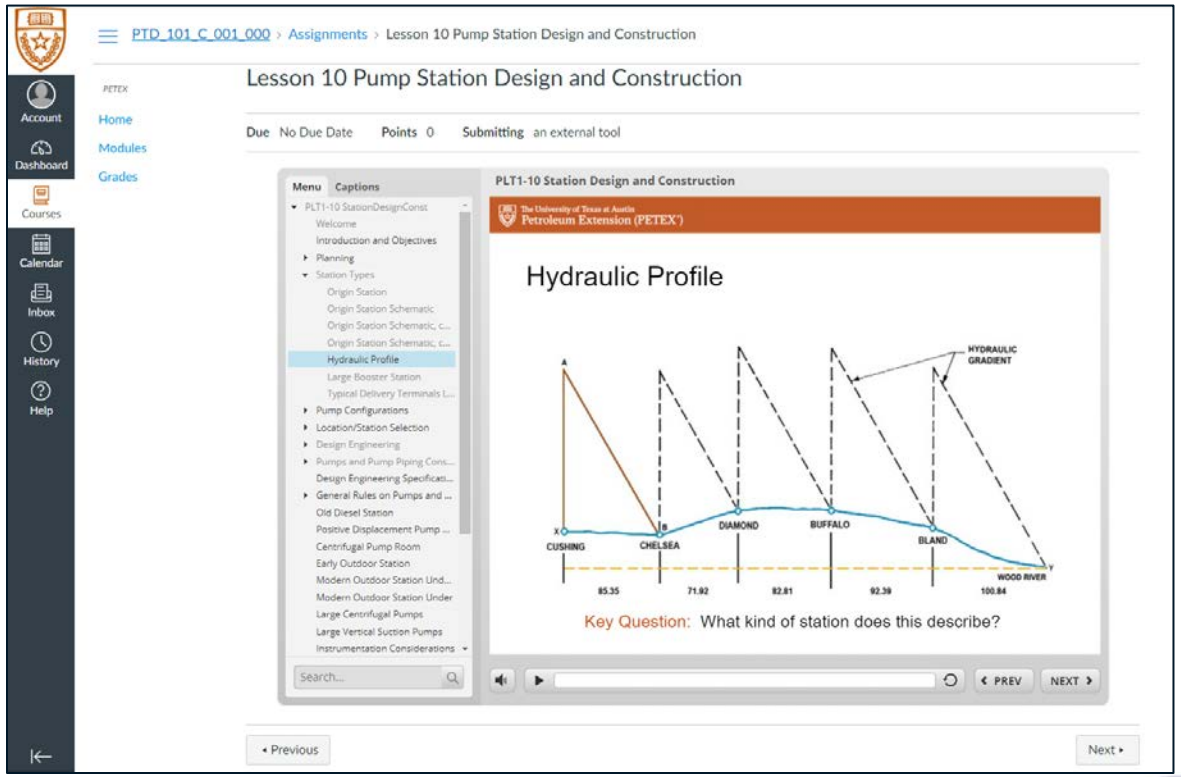
- https://houstonpipeliners.net/
- Education
  - PYP/PAH/PETEX Registration
  - Login
  - Complete PETEX form and submit
- https://engr.instructure.com/
- PETEX site login
- Dashboard
- Pipeline Technology – Design
- Lessons

VALUE OF NEW TRAINING

- Increase Competency
- Anytime Training through Online Format
- Generate Interest in Pipeline Business
- PAH Membership Perk

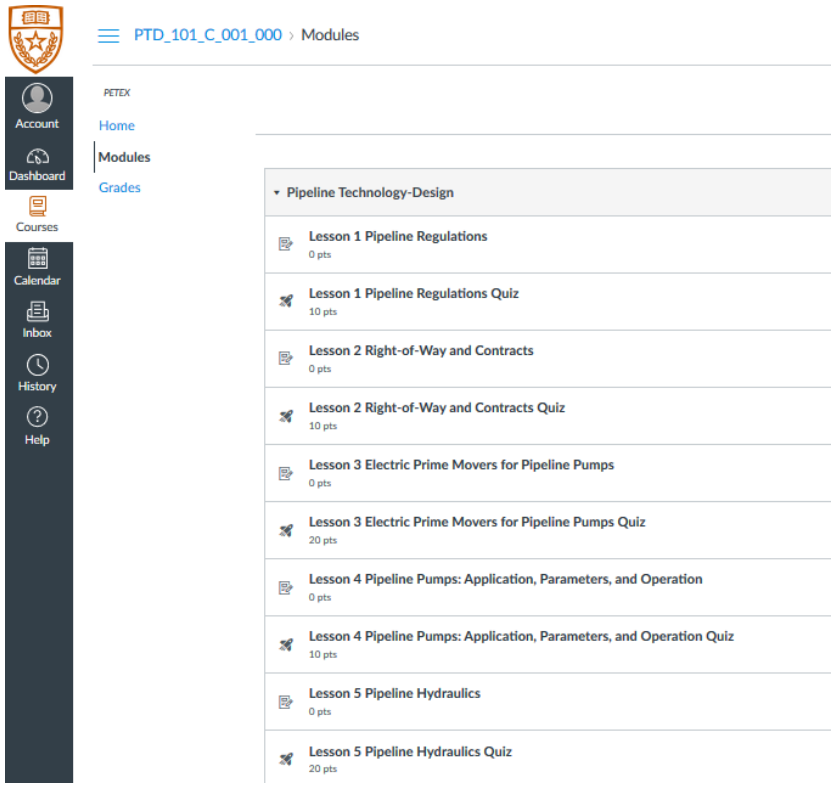
LESSONS LEARNED

- Moving Classroom Training Online Takes Time
- SME Engagement Critical
- Information Refresh Schedule
- Feedback Mechanisms



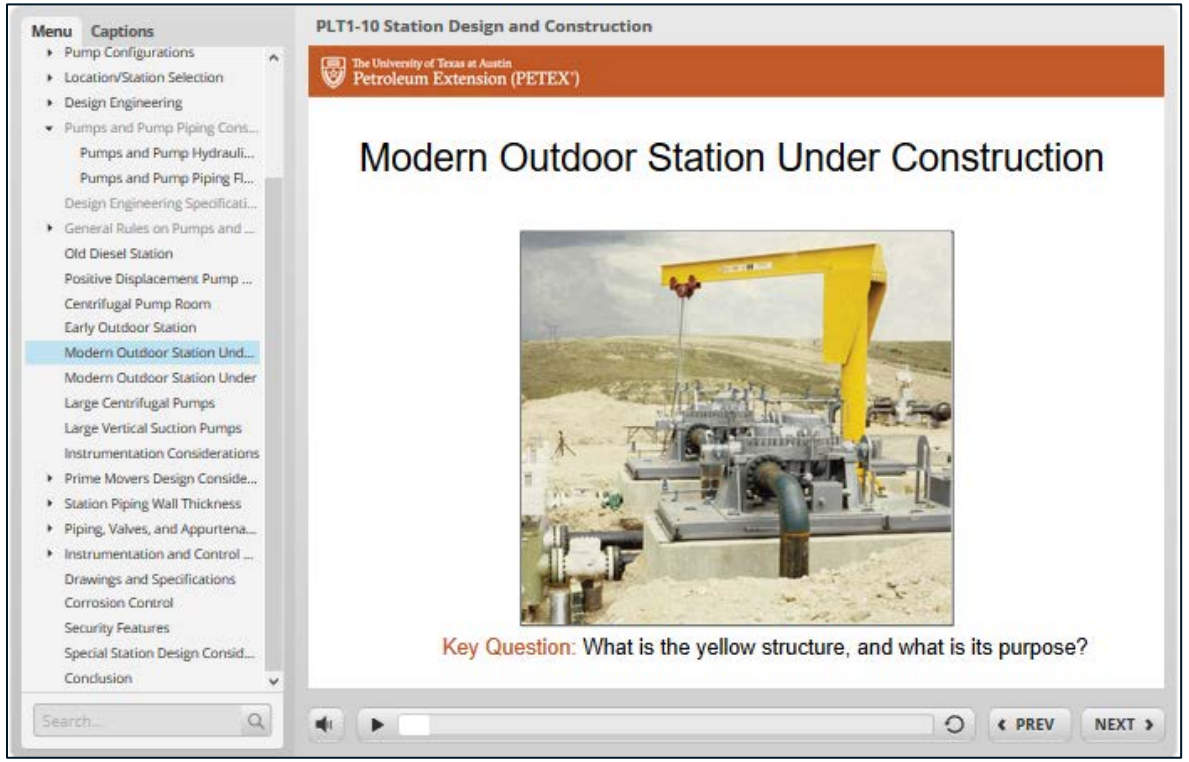
POSITIVE NOTES

- Learn at Your Own Pace
- Flexibility to Pick and Choose Lessons
- Feedback on quizzes is given real time
- Continuing education for all levels of experience
- Knowledge share through familiar format



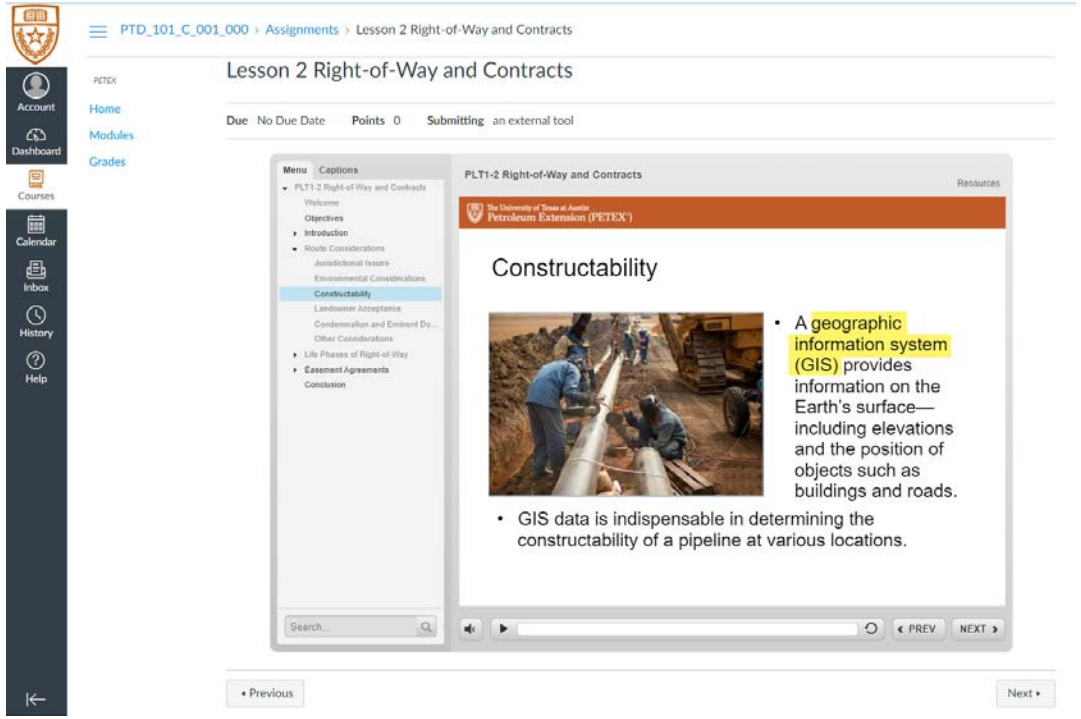
NEXT STEPS FOR TRAINING

- Get feedback on lessons
- Identify SME's for content review
- Develop next Module – Operations
- Update Agreement



FUTURE DEVELOPMENT

- Update Canvas Shell
- Interactive exercises and quizzes
- Get away from PowerPoint type lessons only
- Re-arrange content to fill-in gaps
- Tracking analytics



QUESTIONS?

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