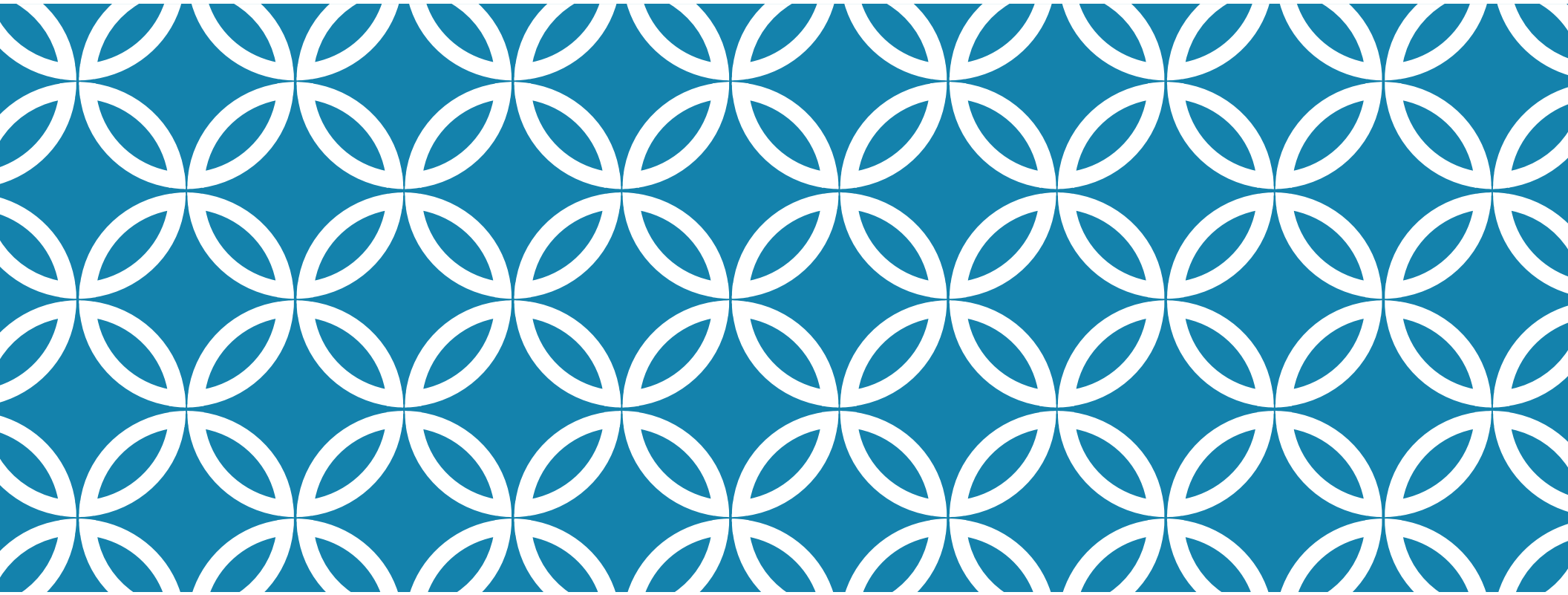
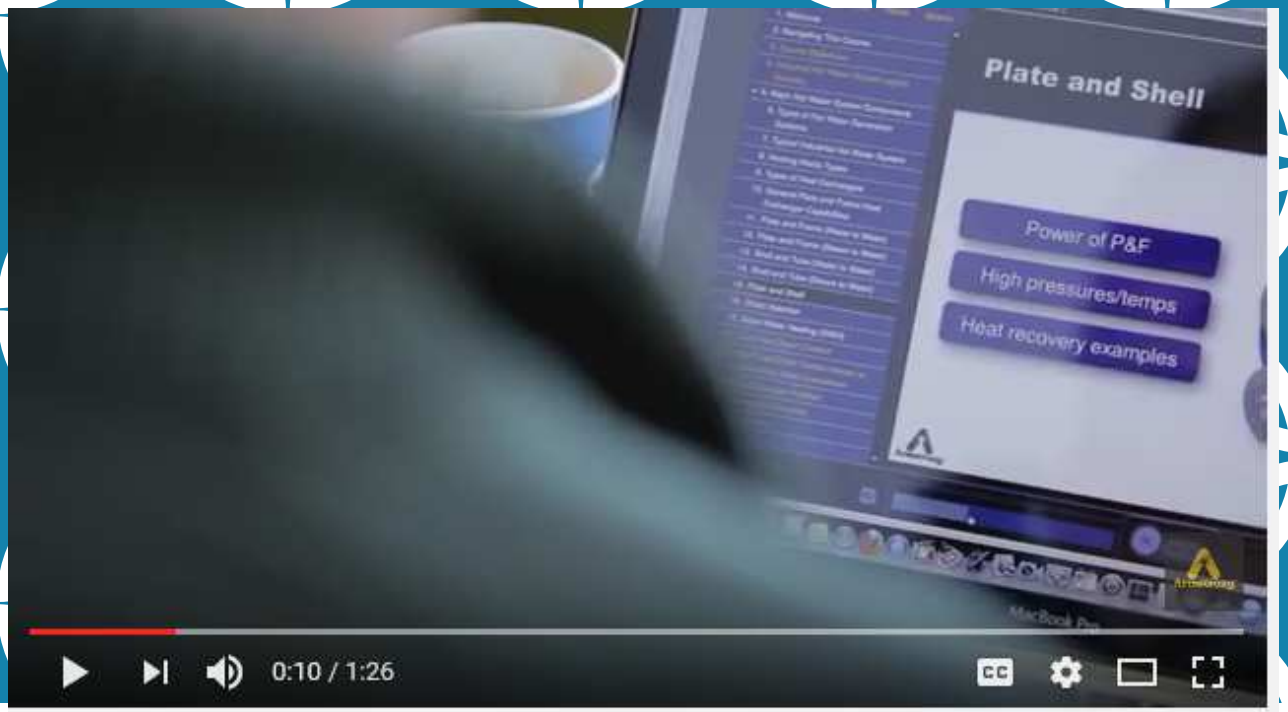


ON-LINE TRAINING PROGRAM FOR PHYSICAL PLANT STAFF

On-Line Training Program: Armstrong University

WHY?

- Try new ways to provide technical training for PPD staff that is not classroom based.
- Online courses allow employees to learn at their own individualized pace.
- **Establish common knowledge base around our campus steam and hot water utility system: "fundamentals"**



https://youtu.be/k102CaCipqk

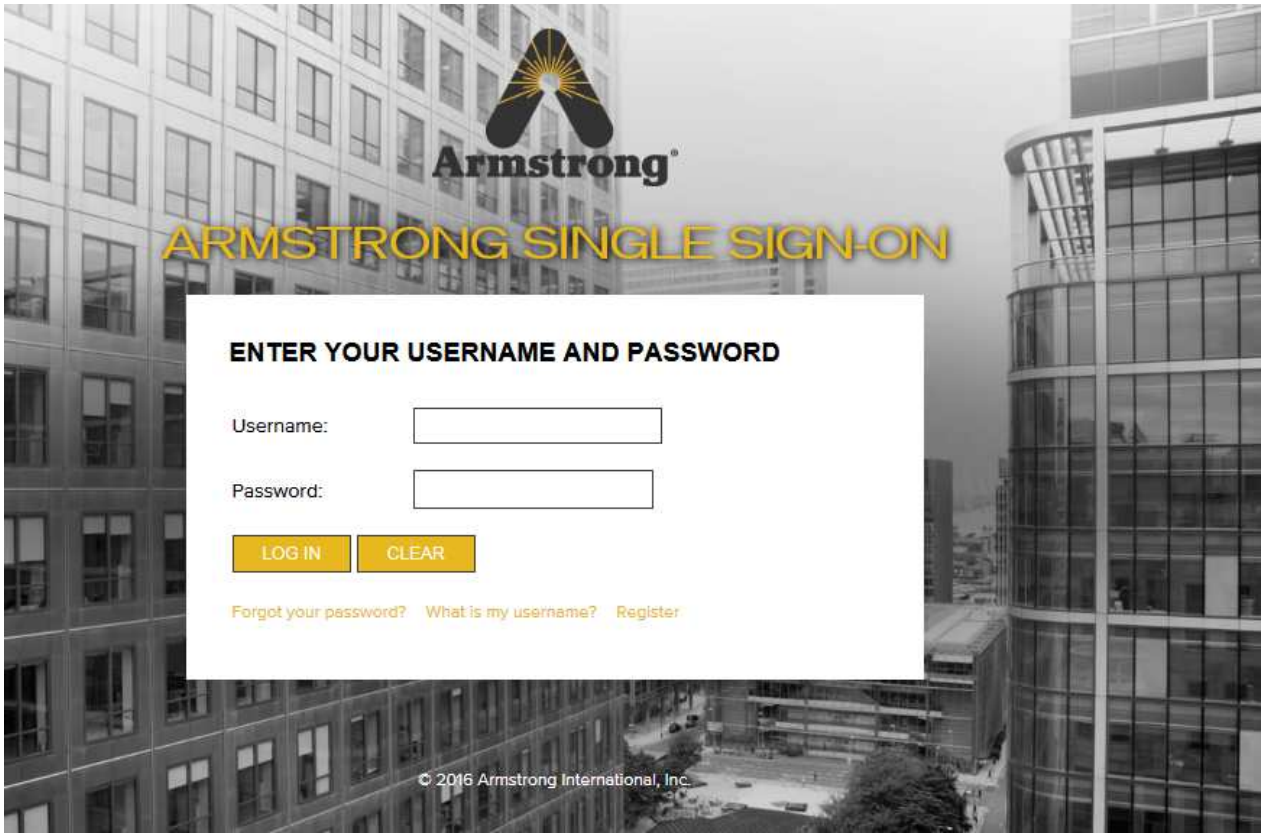
COURSE CURRICULUM

- ***Armstrong University*** is comprised of specific courses that are grouped together into major topics or colleges. For example:
  - College of Steam Principles
  - College of Condensate Return
  - College of Steam Users
  - College of Humidification
  - College of Hot Water
- Courses range from 25 minutes – 45 minutes in length
- Course involves video slides and audio narration that you watch at your own pace.
- At end of each course, take a 10-question quiz
- Receive *Certificate of Completion* with successful (80%) score on quiz

WHEN AND HOW AND WHO?

- Courses are most relevant for PPD staff who work with campus utility system (steam and hot water utilities).
- In October, we will hold small group sessions in Zone Maintenance areas for participants to be enrolled.
- Participants will each be set up with a LOGIN name and PASSWORD for access to the **Armstrong University website** Portal
- Staff will take the on-line training **during their regular scheduled work shift.**
- Staff can use the computers at their shop. We will provide headphones. (We can also schedule times in computer labs).

WHAT WILL IT LOOK LIKE?



Armstrong University – "HOME" portal

HOME ▶ MY HOME

NAVIGATION

- HOME
  - MY HOME
  - SITE PAGES
  - MY COURSES
    - COLLEGE OF ENVIRONMENTAL HEALTH AND SAFETY
    - COLLEGE OF STEAM PRINCIPLES
    - COLLEGE OF STEAM USERS
    - COLLEGE OF FLOW MEASUREMENT
    - COLLEGE OF HEAT RECOVERY
    - COLLEGE OF HUMIDIFICATION
    - COLLEGE OF HOT WATER

ARMSTRONG UNIVERSITY

Knowledge Not Shared is Energy Wasted.®

Welcome to Armstrong University! We believe continuous learning is a key to our success. This resource is here for you to learn essential information and advance your career. This site has been created to meet your training needs with standards-compliant content, on-demand or virtual classroom materials. In addition, formal assessments and reporting make getting information you need to manage your education easier at Armstrong.

Armstrong's global learning initiative has been developed to provide an online-academic platform for continued professional and personal growth in the areas of:

- thermal utilities,
- industry specific solutions and
- environmental, health and safety.

Start here by completing these introductory courses:

- **Steam Basics**
- **Typical Steam and Condensate System Components**
- **Typical Steam Users**

MAIN MENU

- MY GRADES
- KNOWLEDGE SOURCE GLOSSARY
- BIO'S
- LET US KNOW WHAT YOU THINK OF ARMSTRONG UNIVERSITY
- COURSE CATALOG
- ARMSTRONG UNIVERSITY VIDEO
- ARMSTRONG UNIVERSITY SCORECARD
- ARMSTRONG UNIVERSITY COURSE HANDBOOK - PUBLIC STUDENT
- FREQUENTLY ASKED QUESTIONS
- 阿姆斯壮大学
- ARMSTRONG WEBSITE

FIND AND SELECT THE COURSE YOU WILL TAKE

HOME ▶ MY COURSES ▶ COLLEGE OF STEAM PRINCIPLES ▶ TYPICAL COMPONENTS - M2004 ▶ TYPICAL STEAM AND CONDENSATE SYSTEM COMPONENTS ▶ TYPICAL STEAM AND CONDENSATE SYSTEM COMPONENTS

NAVIGATION

- HOME
- MY HOME
- SITE PAGES
- MY PROFILE
- CURRENT COURSE
  - TYPICAL COMPONENTS - M2004
    - PARTICIPANTS
    - GENERAL
    - TYPICAL STEAM AND CONDENSATE SYSTEM COMPONENTS
      - TYPICAL STEAM AND CONDENSATE SYSTEM COMPONENTS
      - LET US KNOW WHAT YOU THINK OF THIS COURSE, "TYPICA...
    - CONGRATULATIONS! PRINT YOUR TYPICAL COMPONENTS COU...
    - 典型蒸汽和凝结水系统组件简介
    - 祝贺您通过了本课程！ 请打印

TYPICAL STEAM AND CONDENSATE SYSTEM COMPONENTS

At the end of this course you will be able to:

- Identify types of equipment found in typical systems
- Use a common vocabulary and nomenclature for steam and condensate components

After completing the course, click the word "Exit" in the upper right corner of the screen, and then choose "Exit now" from the drop down menu. Do NOT click the 'x' to close your browser window.

Number of attempts allowed: Unlimited
Number of attempts you have made: 0
Grading method: Last completed attempt
Grade reported: None

Contents

- Typical Steam and Condensate System Components
- ☐ Typical Steam and Condensate System Components

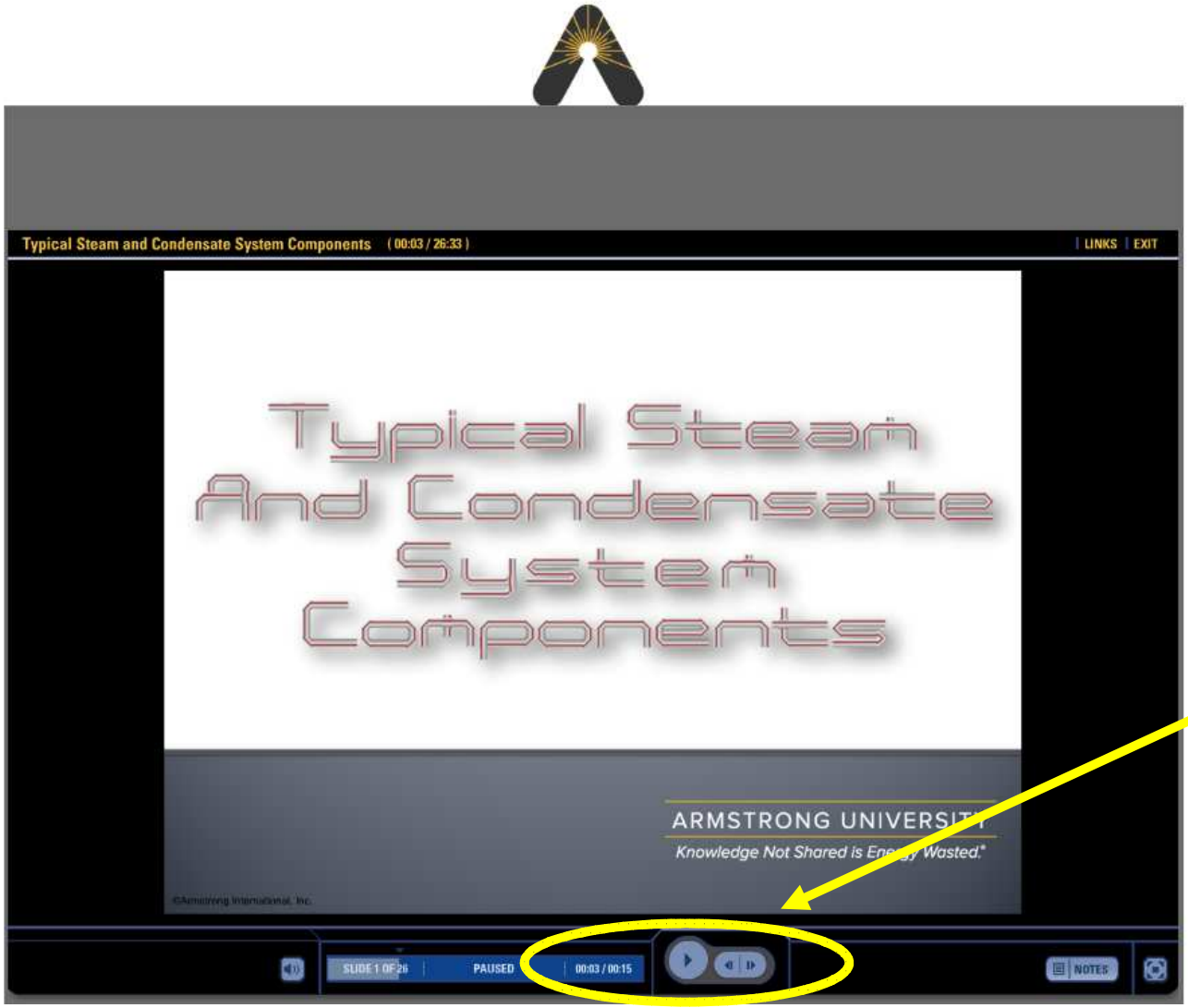
Enter

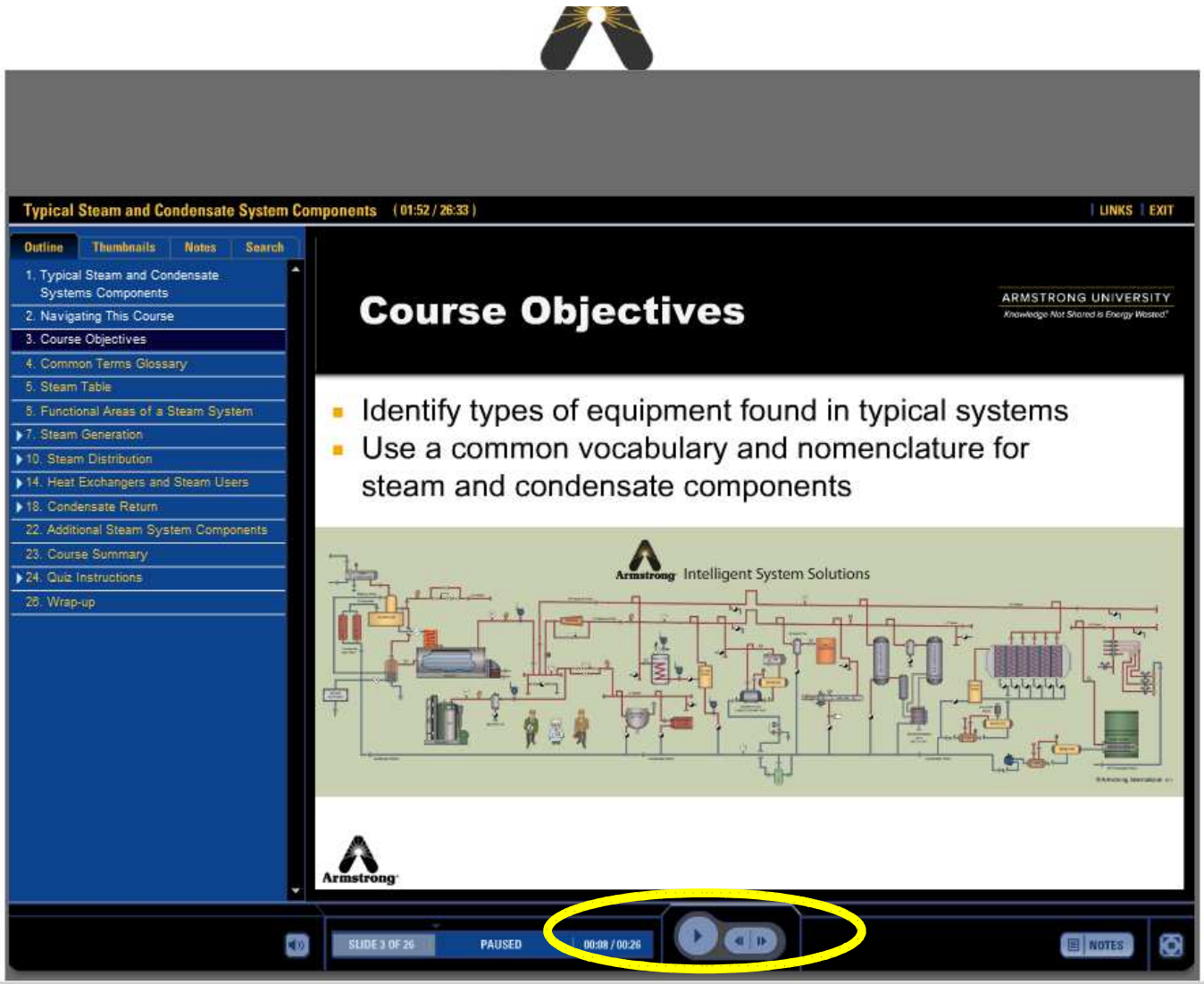
MAIN MENU

NEWS FORUM

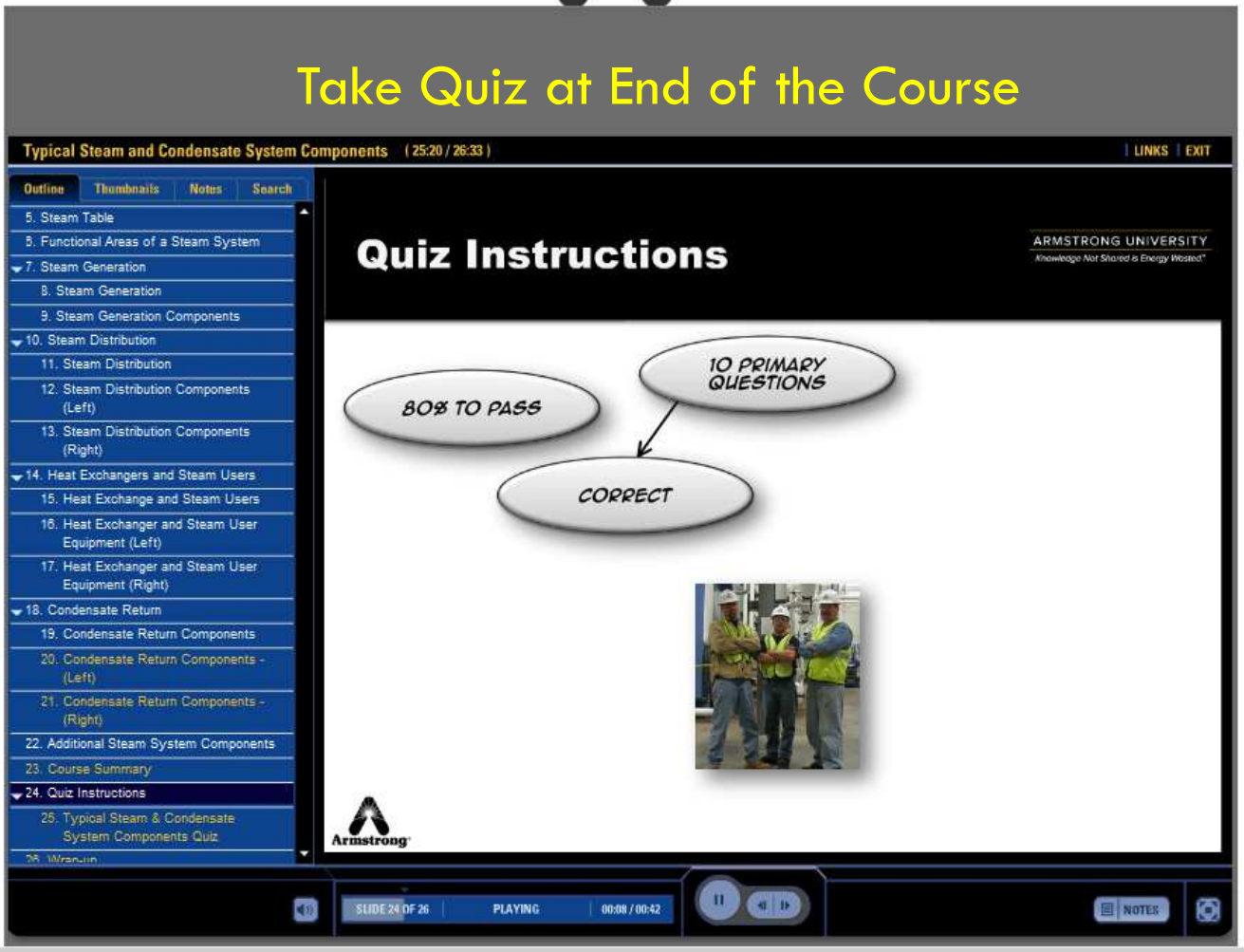
LATEST NEWS

(No news has been posted yet)


Typical Steam and Condensate System Components (00:03 / 26:33)
LINKS | EXIT
Typical Steam And Condensate System Components
ARMSTRONG UNIVERSITY
Knowledge Not Shared is Energy Wasted.®
SLIDE 1 OF 26
PAUSED
00:03 / 00:15
NOTES


Typical Steam and Condensate System Components (01:52 / 26:33)
LINKS
EXIT
Outline
Thumbnails
Notes
Search
1. Typical Steam and Condensate Systems Components
2. Navigating This Course
3. Course Objectives
4. Common Terms Glossary
5. Steam Table
6. Functional Areas of a Steam System
7. Steam Generation
10. Steam Distribution
14. Heat Exchangers and Steam Users
18. Condensate Return
22. Additional Steam System Components
23. Course Summary
24. Quiz Instructions
26. Wrap-up
Course Objectives
ARMSTRONG UNIVERSITY
Knowledge Not Shared is Energy Wasted
Identify types of equipment found in typical systems
Use a common vocabulary and nomenclature for steam and condensate components
Armstrong Intelligent System Solutions
Armstrong
SLIDE 3 OF 26
PAUSED
00:08 / 00:26
NOTES

Take Quiz at End of the Course



A “Certificate of Completion” is e-mailed to you.

Your Armstrong University portal keeps track of the courses you’ve completed, but we also need to enter this information into PPD ***Compliance Suite*** system.

Armstrong

ARMSTRONG UNIVERSITY

Knowledge Not Shared is Energy Wasted.®

This is to certify that

Erica Spiegel

has completed the course

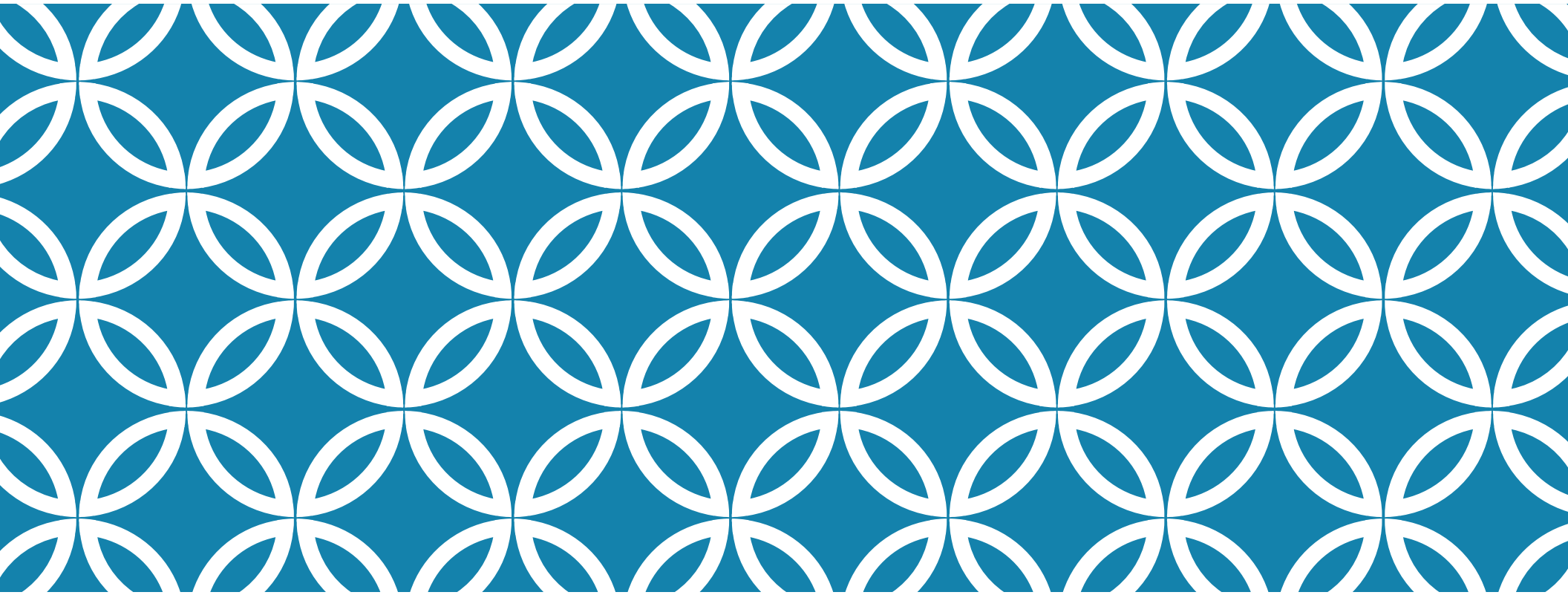
Steam Basics Grade: 83.00 %

July 18, 2016

Pamela Blasius
Director of Global Learning

IMPLEMENTATION TIMELINE

October 2016	Erica will schedule small group meetings at each Maintenance Zone with reps from F.W. Webb to get participants set up with user names, passwords, and 'how to' navigate the portal. Staff will discuss with their Supervisor an action plan for which courses to take and how to fit them into their work week.
October 2016 – January 2017	Participants will take Armstrong University courses during their work day, complete quizzes, and document completion of their coursework. (Certificates of Completion filed with help of Admin support team).
January 2017	We will conduct a survey of participants to get feedback about the program. Decide on next steps.



Questions?