

# ARMSTRONG UNIVERSITY

*Knowledge Not Shared is Energy Wasted.<sup>®</sup>*

Global Learning – Three Rivers, MI USA

At Armstrong International, one of our greatest strengths is the wealth of knowledge, experience and insight we have derived from more than a century of providing thermal utility solutions for customers all over the world. Through Armstrong University, we give you access to this unique legacy of in-depth knowledge by providing seminars, online training and education. Armstrong can even create a curriculum custom-tailored and delivered at your site.

At Armstrong University<sup>®</sup>, you will not be presented with a sales pitch or product promotions. Instructors will walk you step by step through typical installations, operating maintenance, safety and energy topics. Total system solutions for the HPI/CPI, Institutional, Pharmaceutical, and Food and Beverage industries can be addressed, as well.

## **At Armstrong University<sup>®</sup>, you will learn how to:**

- Increase production uptime and yield
- Maximize quality and profitability
- Improve safety
- Raise efficiency while cutting costs
- Reduce your carbon footprint
- Provide safety and comfort for customers, patients and staff
- Improve individual job performance
- Increase the value of employees throughout your organization

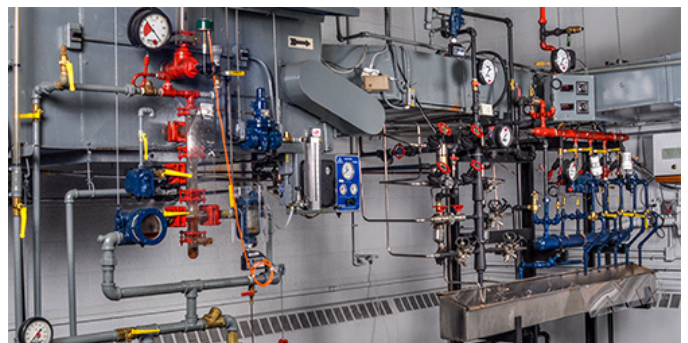
## **Earn Continuing Education Units (CEUs)**

Armstrong University<sup>®</sup> has teamed up with Spring Arbor University (a fully accredited and private higher learning institution founded in 1873) to offer continuing education units. Credits can be earned in a variety of educational facilities located around the world as well as in our online global learning environment.



## **A few of the typical education and training topics available at Armstrong University<sup>®</sup> include:**

- Steam Theory and Principles
- Steam Generation, Distribution and Typical Users
- Steam Traps: Types, Sizing and Applications
- Saturated & Superheated Steam: Pros and Cons
- Sizing Steam Distribution Lines: Velocity, Pressure Drop and Steam Quality Monitoring
- Insulation of Piping: Economics
- Condensate Recovery Equipment
- Sizing Condensate Return Lines
- Mechanical versus Electric Pumps: Pros and Cons
- Water Hammer: Causes, Effects and Prevention
- Pressure and Temperature Controls
- Flow Measurement
- Hot Water Generation: Steam and Natural Gas
- Water Temperature Control
- Heat Transfer Coils
- Smart Utility Monitoring, Measuring and Reporting
- Humidification Solutions
- Energy Optimization Services & Best Practices



Armstrong can tailor an education and training program to meet your specific needs and schedule. From a half-day session to several days, Armstrong University<sup>®</sup> has the qualified instructors and educational resources to improve your employee's safety, knowledge and complete understanding of a utility system.

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## Armstrong University® Three Rivers, MI Campus Seminar Schedule

### 2017 Schedule:

- September 26-27
- October 17-18
- November 28-29

### 2018 Schedule:

- January 30-31
- February 27-28
- March 27-28
- April 24-25
- May 22-23
- June 26-27
- September 25-26
- October 23-24
- November 27-28

### Classroom Details:

**Course:** PHY 006-01

**Course CEUs:** 1.25

**Title:** Steam System Utilization & Energy Management

**Tuition Fee:** \$525 per student (payment required prior to class)

**Tuition Includes:** CEUs, course material and lunch on both days

**Class Length:** A two-day hands-on seminar. Day 1 is from 8 a.m. to 5 p.m. and Day 2 is from 8 a.m. to 3 p.m.

**Lodging:** If you require overnight lodging, we suggest Three Rivers Holiday Inn Express, which is located minutes away from our facility.

Please call (269) 278-7766 to make a reservation.

### Contact Armstrong International to register for a class:

**Lori Masnari**

Education Coordinator

O: (269) 279-3364

F: (269) 273-9500

lori@armstronginternational.com



## Register for Class: Steam System Utilization & Energy Management

Your Name: \_\_\_\_\_

Student Name \_\_\_\_\_ Title \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

Date of Seminar \_\_\_\_\_

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**Armstrong International**

INTELLIGENT SOLUTIONS IN STEAM, AIR AND HOT WATER

North America • Latin America • India • Europe / Middle East / Africa • China • Pacific Rim