

ARMSTRONG UNIVERSITY

Knowledge Not Shared is Energy Wasted.[®]

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.

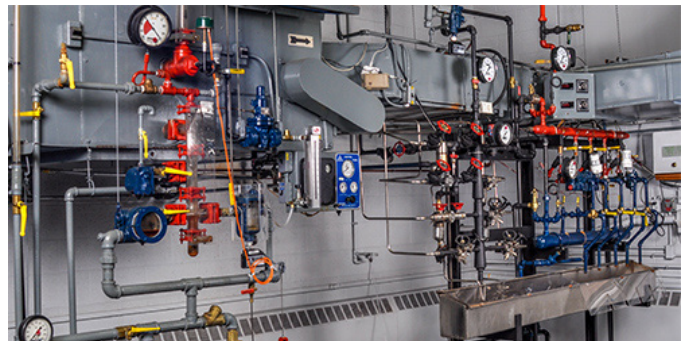
At Armstrong University[®], you will not be presented with a sales pitch or product promotions. Instructors will walk you step by step through typical installations, operating maintenance, safety and energy topics. Total system solutions for the HPI/CPI, Institutional, Pharmaceutical, and Food and Beverage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

At Armstrong University[®], 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

A few of the typical education and training topics available at Armstrong University[®] 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[®] 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

2019 Schedule:

- January 29-30
- February 26-27
- March 26-27
- April 23-24
- May 21-22
- June 25-26
- September 24-25
- October 29-30
- November 19-20

Other Training:

Thought Leadership in Higher Education Facilities Management - Decemer 4-5, 2018

Food Industry Forum - March 13-14, 2019

Trap Management & Steam Trap Survey Training - April 8-11, 2019

Classroom Details:

Course: PHY 006-01

Title: Steam System Utilization & Energy Management

Tuition Fee: \$750 per student (payment required prior to class)

Tuition Includes: Course material and lunch on both days

Class Length: A two-day hands-on seminar. Both days start at 8 am and end at 5 pm.

Lodging: We have a corporate rate of \$99 a night plus taxes at HIE in Three Rivers. Please call (269) 278-7766 to make a reservation. We also recommend Delta Hotels by Marriott in Kalamazoo for \$128 a night. Please call (269) 375-6000 to make a reservation. Advise the hotel you are attending an Armstrong seminar to receive the corporate rate.

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 _____ Shirt Size _____

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Armstrong International

INTELLIGENT SOLUTIONS IN STEAM, AIR AND HOT WATER

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