

# PX023 “TEST THE EFFICIENCY AND PERFORMANCE OF A BOILER IN TWO DIFFERENT INSTALLATIONS”

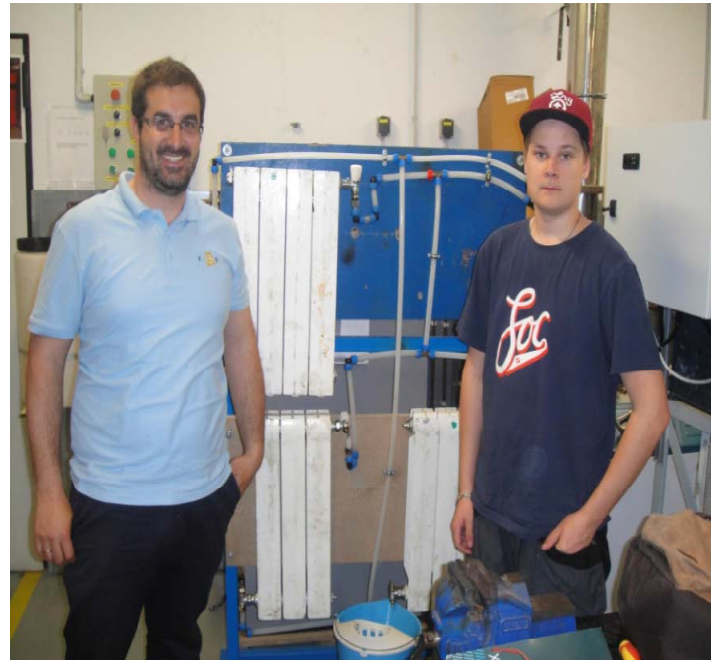
PRESENTATION OF THE PROJECTX-FINAL LEVEL 1.

# PEX vs Copper



# FOR USE IN THIS CORE AREA: general and particular.

- ▶ GENERAL / KNOWLEDGE: Heating, Plumbing, Gas
- ▶ PARTICULAR / ACTIVITIES: Design, Drawing and Assembly



# LEARNING OUTCOMES. Common to be shared.

- ▶ 1. 302.1- Assemble heat production equipment, transmitters and auxiliaries (boilers, radiators, fan coils, tanks and heat exchangers, etc.) interpreting drawings and manufacturer`s instructions and using assembly techniques.
- ▶ 2. PLMAS01(TopMost)- Assemble pipe network, fittings and control elements and circuits, interpreting blueprints, technical standards and specifications and using the tools and equipment safely.
- ▶ 3. HTNMT02 (TopMost)- Testing heating installations

# DURATION

- ▶ Theory: 10 hours
- ▶ Practice: 50 hours



# THEORETICAL OBJECTIVES AND ACTIVITIES

## OBJECTIVES

- ▶ 1. Know the requirements of design of heating systems.
- ▶ 2. Identifies components and operation mode of domestic gas boilers
- ▶ 3. Identifies components and operation mode of gasoil boilers
- ▶ 4. Knows the boiler in use in the workshop

## ACTIVITIES

- ▶ 1. Evaluation questionnaire.
- ▶ 2. Multiple-choice test.
- ▶ 3. Training exercises with a computer programme.
- ▶ 4. Technical discussion.

# PRACTICE.

## Brief description.

- ▶ The student will make two different installations of heating using two kinds of material (copper and plastic, like PEX, PPR or similar), he will make the commissioning and will collect data for the comparison between both systems.



## PRACTICE. Activities.

1. Draw the scheme.
2. Assemble the piping
3. Fit the radiators
4. Perform the leakage checking
5. Check the proper operation and report it.

