



## TRAINING AND CERTIFICATION



## Welcome to isoplus campus

At isoplus campus, the continuing education of district heating staff is in safe hands.

Problems occurring in pre-insulated district heating pipelines can often be attributed to lack of training on the part of the fitter or inspector. The right training is therefore an important aspect of quality assurance of the work performed in the district heating industry. This way, correct installation is ensured and the risk of future problems is minimised.

At isoplus campus we arrange courses on installation and quality assurance of pre-insulated piping systems as well as joint installation. See the course overview below and contact us to order a course - or inquire about specially adapted courses - contact us at:

**Tel.: +44 1302 276976**

**E-mail: sales@isoplus.co.uk**

### HEAT-SHRINKABLE JOINT

- Material and component knowledge
- Installation instructions
- Installation of heat-shrinkable and repair joint
- Installation and measurement of leak detection wires
- Knowledge of tools and special equipment
- Quality assurance
- Correct handling of insulation foam

### WELDABLE JOINT

- Material and component knowledge
- Installation instructions
- Installation of weldable and open weldable joint
- Installation and measurement of leak detection wires
- Knowledge of tools and special equipment
- Quality assurance
- Correct handling of insulation foam
- Operation and maintenance of welding computer

### BRANCH JOINT HEAT-SHRINKABLE OR WELDABLE

- Material and component knowledge
- Installation instructions
- Installation of 2 branch joints Installation and measurement of leak detection wires
- Knowledge of tools and special equipment
- Quality assurance
- Correct handling of insulation foam
- \* Operation and maintenance of welding computer

(\* For weldable branch joints)

### RECERTIFICATION HEAT-SHRINKABLE JOINT

- Same content as heat-shrinkable joint
- Brush up your knowledge
- Special focus on the procedures of the practical execution

### RECERTIFICATION WELDABLE JOINT

- Same content as weldable joint
- Brush up your knowledge
- Special focus on the procedures of the practical execution

### RECERTIFICATION BRANCH JOINT HEAT-SHRINKABLE OR WELDABLE

- Same content as branch joint weldable or heat-shrinkable
- Brush up your knowledge
- Special focus on the procedures of the practical execution

## JOINT COURSES

After the course, the participant is a certified fitter of the reviewed isoplus products.



## 1. module (1 day)

- Materials and product knowledge
- Control points that the inspector should be aware of
- Leak detection systems
- Correct handling and installation of products
- Practical example on incorrect installation
- Overview of EU norms relevant to district heating pipe systems
- Demonstration of joint installation

## 2. module (1 day)

- Hands on based on the theory gone through



- Product specifications
- Stresses and expansion
- Design of pipe network
- The 4 installation methods
- Optimisation of pipe traces
- Special conditions for solar heating systems

Can be arranged at isoplus or at the customer's facilities



This introduction to pre-insulated piping systems may include the following subjects:

- Overview of which EN norms apply to pre-insulated piping systems for district heating
- Production methods
- Product overview
- Heat loss calculations
- Choosing the optimal pipe system

Course scope is tailored to the needs of the course participants.

## SUPERVISION & INSPECTION

After the course, the participant knows how to supervise and inspect district heating projects with regard to installation, technique, statics and leak detection system.

## INSTALLATION RULES

After the course, the participant knows how to design pipe systems in accordance with the specifications in isoplus' catalogue and specify the optimal pipe trace.

## INTRODUCTION

After the course the participant has gained an insight into district heating products and current standards. The course is aimed primarily at new employees working with energy, contractors or consultants.



- Leak detection system – design and function
- Component overview
- Measuring equipment overview
- Leak detection system installation
- Understanding of drawings
- Quality assurance

## LEAK DETECTION

After the course, the participant knows how to design and supervise a leak detection system.



- The training programme is adapted to your needs
- Can contain theory, practice and/or demo

## INDIVIDUAL COURSE

The course target everyone with individual needs of developing their competences in purchasing, installation or supervision of pre-insulated piping systems for district heating

## isoplus campus

Every year more than 300 seize the opportunity to participate in a course at isoplus.

The degree of satisfaction with our courses is high, however this doesn't prevent us from constantly developing them and ensuring that they meet the requirements and needs of the district heating industry.

The aim of isoplus campus is to ensure quality and knowledge at all levels.

Of course, all our courses meet the requirements of EN13941.



**isoplus** Fjernvarmeteknik A/S

Korsholm Alle 20  
 5500 Middelfart  
 Denmark  
 Tlf.: +45 64 41 61 09  
 e-mail: iso@isoplus.dk



**isoplus** Fjärrvarmeteknik A/S

Korsholm Alle 20  
 5500 Middelfart  
 Denmark  
 Tlf.: +46 019 101 666  
 e-mail: iso@isoplus.se



**isoplus** Fjernvarmeteknik A/S

Korsholm Alle 20  
 5500 Middelfart  
 Denmark  
 Tlf.: +45 64 41 61 09  
 e-mail: iso@isoplus.dk



**isoplus** Piping Systems Ltd.

Plumtree Industrial Estate  
 Plumtree Road  
 Doncaster – DN11 8EW  
 United Kingdom  
 Tlf.: +44 1302 276976  
 e-mail: sales@isoplus.co.uk

