



# Aquatherm

## aquatherm Trainer's Checklist

For each training session, mark off all the points covered with the class. All sections are required for certification.

Instructor Name: \_\_\_\_\_ Training session date : \_\_\_\_\_ Start time \_\_\_\_\_

Session Number: \_\_\_\_\_ Number of people trained \_\_\_\_\_ Finish time \_\_\_\_\_

### Company overview

- German origin
- Canada or US launch
- Philosophy-Quality
- Philosophy-Green

### Product overview

- Material strength and purity
- Fiber-composite
- Fusion connections
- Length of pipe

### Applications

- Potable
- Hydronic
- Industrial
- Geothermal
- Chemical
- Compressed Air
- Rainwater
- Reclaimed water

### Markings

- Size of pipe and fittings
- Sizing conversions
- Certification marks
- Green = potable
- Blue = industrial
- Purple = reclaimed/ rainwater
- Stripes for hot/cold
- Aquatherm Advanced

### A new way of thinking

- Quality in workmanship
- Patience with a new system

### Handling and care of pipe

- Carry the pipe gently
- Store the pipe flat
- Store in original bags
- UV protection
- Cold Weather Concerns

### Cutting

- Ratchet cutters
- Tube cutters
- Plastic specific blade for powered cutters
- Manually cut cold pipe
- Cut squarely
- Only use sharp cutters

### Preparation

- Cleaning/Deburring
- Inspect for damage
- Cut out damaged pipe
- No water contact
- Transition fittings

### Pre-fabrication

- Station
- Planning
- Assembly

### Tools

- Take care of them
- Safety
- Keep them in their boxes
- Don't leave unattended
- Protect the Teflon heads
- Use the proper sized tool
- Use the proper sized heads
- At least one tool per installer

### Tool assembly

- Partially tighten heads,
- Plug in tool
- Tighten heads once the iron is hot
- Verify temperature before welding

### Socket Fusion

- Cut the pipe
- Mark the pipe
- Verify heat time
- Push simultaneously into iron
- Measure time
- Push pipe and fitting squarely together
- Don't twist
- Two rings of plastic
- Hold firmly until the fusion sets

### Jig Fusion

- Keep sliding parts oiled
- Protect jig from moisture, dirt, etc.
- Assemble the jig
- Full battery charge
- Use the blue marking guide
- Assemble welding tool
- Pipe-side clamp 1/2"-1" past mark
- Don't force the jig
- Don't touch jig to hot iron

- Don't "click" the drill
- Relax pressure when welding

### Outlet Fusion

- Be careful with bore
- Mark the pipe
- Use guide bit
- Bring drill to full speed
- Drill squarely
- Clean out hole
- Push iron into hole first
- 30 second heat time
- Check surface
- Press gently for 15 seconds

### Pipe repair

- Two sizes
- Drilling out the hole
- Proper peg depth
- Proper heat and weld times
- Clip the extra

### Flanges

- Sizes
- Installation
- Milling for valves

### Hanging

- Don't clamp with metal
- Follow catalog guidelines

### Important Requirements

- Run and submit pressure test
- Insulation/Aquatherm Advanced
- Firestopping
- Flame/smoke/plenum rating

### Butt fusion

- Maintenance
- Milling
- Pressure adjustment
- Heat temperature
- Timing
- Bead height
- Cooling phase

### Electrofusion

- Special fittings
- Clean and peel
- Timing by computer
- Available, but not recommended

I hereby affirm that the marked topics were taught in my training session on the above listed date and that those certified in association with this session were present for the teaching.

Signed \_\_\_\_\_