

## Skills Bootcamp in Low Temperature Heating Systems



## What are Skills bootcamps?

Skills Bootcamps are substantially funded, 60-hour training programs which enable Sole Traders and SME employees to up-skill in Level 2/3 accredited training

This program is funded by The Department for Education as part of the government's Lifetime Skills Guarantee.

This comprehensive training programme focuses on Low-Temperature Heating and Hot Water Systems in domestic and small commercial properties and the changes to Part L of the building regulations. Designed for experienced heating installers who work with gas, LPG, solid fuel, oil or biomass this training will equip you with the knowledge and hands-on experience needed to install and maintain Heat Pump Systems, one of the most effective solutions for renewable energy heating.

Upon completion of this 8-day training programme, you will have the knowledge and hands on experience to meet manufacturer requirements for heat pump installation, ensure proper commissioning and register the warranty, while adhering to relevant building regulations and industry standards.



For more information speak to our technical team.	Practical exam     www.greenskills.london     Greenskills@windsor-forest.ac.uk     Slough and Langley College.	To register, SCAN Code	
<ul> <li>DAY1 Heat Pump Systems - Core Unit</li> <li>Types of Heat Pumps</li> <li>Heat Pump COP &amp; SPF</li> <li>Heat Pump Science, vapour compression cycle &amp; components</li> <li>Monovalent &amp; bi-valiant systems</li> <li>Planning and siting of units</li> <li>Hydronic systems</li> <li>Building heat loss &amp; heat emitters</li> </ul>	<ul> <li>DAY 2 Heat Pump Systems - Core Unit</li> <li>ASHP design, heat loss calculations, pipework heating design</li> <li>Commissioning and balancing</li> <li>Customer handover and paperwork</li> <li>Maintenance and Servicing or ASHP</li> <li>Fault Finding of ASHP's</li> <li>Online Assessment Core Unit</li> </ul>	<ul> <li>DAY 3 Heat Pump Systems - Air Unit</li> <li>Online Exam- Air Unit</li> <li>MCS Paperwork</li> <li>Ground Source Heat Pumps application, including GSHP pipe collectors (arrays)</li> <li>Installation considerations, Ground types and extraction rates</li> </ul>	

<ul> <li>DAY 4 Heat Pump Systems - Ground Unit</li> <li>Filling, flushing, setting to work and maintenance of GSHP</li> <li>Commissioning of GSHP</li> <li>Online exam - Ground Source Unit</li> <li>Prcatical Assessment</li> </ul>	<ul> <li>DAY 5 Underfloor Heating Systems</li> <li>The history of underfloor heating</li> <li>The principals of underfloor heating</li> <li>The different underfloor heating systems</li> <li>Design outputs</li> <li>Correct installation</li> </ul>	<ul> <li>DAY 6 <u>Systems</u></li> <li>Testing and commissioning</li> <li>Control strategies</li> <li>Integration with high/low temperature heating systems</li> <li>Multiple choice Assessment</li> </ul>	<ul> <li>DAY 7 Low Temperature Heating</li> <li>R values and U values</li> <li>Heat Loss formulas</li> <li>Radiator Factors and sizing</li> <li>Underfloor heating</li> <li>Pipe Sizing</li> <li>Calculating loads at different delta T's</li> <li>Pressure drop</li> <li>Flow rates</li> </ul>	<ul> <li>DAY 8 Low Temperature Heating</li> <li>Assessment</li> <li>Recap</li> <li>KV Values</li> <li>Hydronic Separation</li> <li>Domestic Hot water sizing</li> <li>Pump sizing</li> <li>Expansion vessel sizing</li> <li>System Balancing</li> <li>Online Exam- Low Temperature Heating</li> </ul>
John McGregor Technical Tutor specialised in Building Services Engineering with experience in Healthcare, Education and high-end	Vigel KirbyTechnical Tutor specialised in Plumbing and Heating in domestic and small commercial properties,	Who we work with Kensa Heat Pumps A KENSA GROUP COMPANY	Testimonials What previous participants have said about our Skills Bootcamp training: Gasways: All tutors were knowledgeable and very helpful during the bootcamp courses, the admin staff were amazing in arranging dates and times around my work schedule, Green Skills Academy has helped me develop my skill set	organised. The team is friendly and helpful, and the tutors are highly qualified and howledgeable. BDL Services: The course was well planned and informative, i would highly recommend Nigel Kirby, everything was perfect from the pace to the coaching, I have gained a whole new insight into Heat Pump Technology.

Renelec

GROUP



further which has given me

confidence to work in more

than one field of work in my

HIQ Heating: The programme

is brilliant and very well

trade.

commercial properties, Social Housing, Construction and Refurbishment projects, with particular focus on Low Temperature Heating and Air and Ground Source Heat Pump systems.

residential projects, with

Temperature Systems.

particular focus on Ventilation,

Underfloor Heating and Low