

Key to Central heating and gasnetworksystem fitter B1

I. Key to Reading Comprehension

Key to Task 1:

Air Source Heat Pump, Ground Source Heat Pump, Biomass Boiler, Solar Thermal Panel system

- Geothermal Heat Pumps
- Heating Oil
- Pellet Stoves
- Solar Heating
- Under-floor Heating

Key to Task 3:

1. Solar energy is available for detached or two-family houses.
2. Solar collectors can save up to 35 % of the heating costs. It can cover up to 60% of the annual demand for DHW heating.
3. Heat is generated by gas condensing boilers.
4. They are made of high alloy stainless steel.
5. Harmful CO₂ emission is the problem.
6. Solar energy is available free of charge.

IV. Key to Small Talks Tasks

Key to Task1: Job Interview: possible solution:

1. Tell me about yourself.

I studied at Inczédy György Vocational School. I worked with classmates on projects to develop teamwork and cooperation. I developed discipline through studying, the classes also helped me to improve my problem solving skills.

2. Tell me about your ability to work under pressure.

Pressure has a good effect on my work. When there is a deadline, I focus my energy into my work to produce some of my best works. For examples, last year I had to modernize a heating system, but the pipes were in a really bad condition. I had to replace all the pipework. Unfortunately, there wasn't enough time for it. I suggested the customer using innovative pipe

connection technologies, the grooved pipe joint. With this solution I could finish the work in time.

3. What field experience do you have for a central heating fitter position?

I am familiar with different types of pipes and tubes. I have experience in cutting, bending and forming the pipes, making support structures and welding. I usually choose the materials, fittings based on the principle of economy. I like watching videos and reading articles on the Internet about innovative technologies.

4. Why do you believe we should hire you?

I believe my personal qualities fit the requirements of your company.

5. What knowledge do you have about the company?

I looked into the background history of the company, and I have a positive impression. I know that you are expanding in the country, you have a good reputation in this competitive world.

6. What do you consider to be your best strength?

I am good at problem solving, I can work under pressure, and I am loyal.

7. What do you consider to be your biggest weakness?

I sometimes get lost in small details, I am occasionally not as patient as I should be with my colleagues, and I am nervous if I have to give presentations.

8. Tell me about a typical day at work.

At the beginning of the day, I look around the work site to make sure that it is not dangerous. Then I check that all tools and equipment are available. I start work with my colleagues. At the end of the day we collect the tools and equipment and clean the work area.

9. What do you see yourself doing in five years?

I would like to work for your company and I want to progress in my career here.

10. What are your salary expectations?

Money isn't a key factor and my goal is to advance in my career.

11. Do you have any questions?

When will you inform me if I get the job or not? What is the next step in the process?

We will notify you in a week by email.

Key to Task 2: Possible solution:

- **Hallo! Peter Black is speaking.**
- Hallo! I'm Mr. Brown You made our heating system last summer.
- **Yes. What can I do for you?**
- I have a problem, one of the radiators is not heating. What should I do?
- **There may be several reasons for it. At first, the radiator can be airy.**
- OK. Can I solve this?
- **Yes. Bleed the radiator. The bleed valve is on the opposite side of the radiator valve.**
- What do I need for it?
- **You need a straight screwdriver or a bleed wrench, small plastic bowl suitable for "air-filled" water and wipe paper or cloth to pick up the dripping water.**
- How should I do this process?
- **Stop the heating system. Bleed the radiator through the bleed valve. Charge the heating system to 1.2-1.5 bar. Start heating and repeat the process if necessary. If the system is bubbling or the radiator is not heating properly, you should try again.**
- OK. I understand. What other causes can be?
- **Secondly, the thermostatic radiator valve is defective. Thirdly, the circulation pump capacity is insufficient. And finally, there is clogging at the radiator valve or in the radiator.**
- I'm afraid I can't shoot these troubles.
- **I see. You don't have to do these things. Tomorrow evening after work I will visit you and I will do the troubleshooting.**
- I'll wait for you tomorrow.
- **I'll go about 6 p.m., if it is good for you.**
- All right. Thank you in advance. Goodbye.
- **See you tomorrow.**

V. Key to Occupational Safety Tasks

Key to Task 1: more solutions are acceptable

Mandatory signs (PPE must be worn) and high-visibility clothing /hi vis wet suit are in the pictures.

Meaning of signs: PPE (Personal Protective Equipment) must be worn

Wear ear protection

Wear hair protection/a hairnet

Wear a safety helmet/a hard hat, safety clothing, safety boots, safety vest, safety gloves

Wear safety goggles/glasses

Wear/Use a respirator, mask

Wear a face shield, welding helmet

Key to Task 2: more solutions can be accepted

Head and scalp protection: safety helmet, hard hat, face shield, hair protection

Respiratory protection: respirator, mask

Eye protection: safety goggles / glasses

Hearing protection: earmuffs, earplugs

Hand and arm protection: safety gloves, arm sleeves

Foot and leg protection: safety boots / shoes, leather leggings, knee pads

Body protection: hi vis wet suit, high visibility clothing, hi vis vest, hi vis trousers, hi vis jacket

Height and access protection: ladder and vertical access kit, fall protection and rope access kit, safe access at height