

Introduction to Pipe Fitting

Welcome to the world of pipe fitting and fixture installation! This welcome pack is designed to introduce you to the fundamental techniques and principles involved in plumbing. By the end of this pack, you will have a solid understanding of the basics of pipe fitting and fixture installation, and be ready to start your journey to becoming a skilled plumber.

What is Pipe Fitting?

Pipe fitting is the process of connecting pipes and fittings to create a functional system for conveying fluids or gases. It involves measuring, cutting, and assembling pipes and fittings to create a safe and efficient system.

Types of Pipes and Fittings

There are several types of pipes and fittings used in plumbing, including:

- Copper pipes
- PVC pipes
- PEX pipes
- Elbows
- Tees
- Couplings

Measuring and Cutting Techniques

Measuring and cutting pipes accurately is crucial in pipe fitting. Here are some key techniques to remember:

1. Use a tape measure to measure the length of the pipe
2. Use a pipe cutter to cut the pipe to the correct length
3. Use a deburring tool to remove any sharp edges

Assembling a Basic Pipe Fitting System

Assembling a basic pipe fitting system involves selecting the correct pipes and fittings, measuring and cutting the pipes, and assembling the system using various types of fittings and connections.

Activity 1: Pipe Fitting Diagram

Create a diagram of a basic pipe fitting system, including the different types of pipes and fittings. Label each component and describe its function.

Activity 2: Measuring and Cutting Exercise

Measure and cut a pipe to a specified length using a tape measure and pipe cutter. Debur the pipe and inspect it for any sharp edges.

Activity 3: Pipe Fitting System Assembly

Assemble a basic pipe fitting system using the skills and knowledge acquired in this pack. Use the correct pipes and fittings, and follow proper measuring and cutting techniques.

Quiz Time!

Test your knowledge with the following questions:

1. What is the purpose of a pipe fitting?

2. What type of pipe is commonly used for water supply lines?

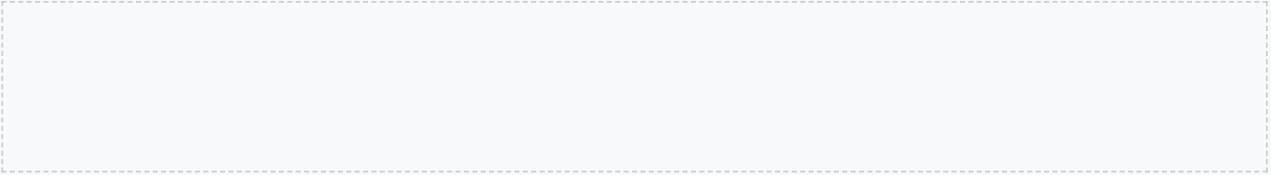
3. What is the function of an elbow in a pipe fitting system?

Answers

1. a) To connect two or more pipes together
2. a) Copper
3. b) To change the direction of a pipe

Conclusion

Congratulations on completing this welcome pack! You now have a solid understanding of the basics of pipe fitting and fixture installation. Remember to always follow safety protocols and guidelines, and practice your skills regularly to build confidence and proficiency.



Additional Resources

For further learning and practice, refer to the following resources:

- Plumbing textbooks and manuals
- Online tutorials and videos
- Pipe fitting and plumbing supply stores

Glossary

- *Pipe fitting: The process of connecting pipes and fittings to create a functional system for conveying fluids or gases.*
- *Fitting: A device used to connect two or more pipes together.*
- *Pipe: A cylindrical tube used to convey fluids or gases.*
- *Elbow: A fitting used to change the direction of a pipe.*
- *Tee: A fitting used to connect three pipes together.*

