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المعهد الهندسي لخدمات التكنولوجيا والبرمجيات



Engineering office for Technology and Software Services

Plumbing & Heating Safety



Detailed Course Plan – Plumbing & Heating Safety

Code: 28005PUM-TECH

Duration: 2 Weeks (3 sessions per week)

Course Objectives

- Develop awareness of **occupational hazards** in plumbing and heating environments.
- Master the use of **Personal Protective Equipment (PPE)**.

Main Branch: United building – E Shams –Front NBE
, El Siouf _Alexandria

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المعهد الهندسي لخدمات التكنولوجيا والبرمجيات

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- Understand **safe work procedures** involving gas, hot water, and pressurized systems.
- Learn **emergency response protocols** and first aid essentials.

Introduction

Working in plumbing and heating requires daily exposure to **high-risk systems**—such as hot water lines, gas, and confined spaces. This course is designed to prepare technicians to **operate safely** and follow **best practices**, ensuring their safety and the safety of others on site.

Course Description

This short yet intensive course focuses on **safety protocols** specific to the plumbing and heating sector. It equips participants with the knowledge to **identify, assess, and mitigate risks**, while following local and international **safety standards**. Through practical demonstrations and real-world case studies, participants will build the confidence needed to **prevent accidents** and handle emergencies effectively.

Target Audience

- Apprentice and entry-level plumbers.
- HVAC and heating technicians.
- Maintenance personnel in residential or industrial settings.
- Site supervisors seeking **basic safety compliance training**.

What You Will Learn

- ✓ Common hazards in **plumbing and heating jobsites**.
- ✓ Correct selection and use of **PPE (helmets, gloves, goggles, etc.)**.
- ✓ Safe procedures when working with **gas lines, steam, and hot water**.
- ✓ How to **prevent and respond to accidents** (burns, leaks, gas exposure).
- ✓ Practical steps for **first aid and emergency response**.
- ✓ Key **safety standards and legal requirements** in plumbing.

Materials Included

- Illustrated **Safety Handbook** (specific to plumbing/heating).
- Access to **PPE demonstrations** and equipment trials.
- Incident reporting templates and risk assessment samples.
- Video guides on proper safety workflows and emergency handling.

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- On-site **case studies** and scenario-based learning exercises.



Requirements / Instructions

- No prior training required** – this course is designed for all skill levels.
- Attendance is required in **all 6 sessions** over the 2 weeks.
- Participants must wear PPE during all workshop activities.
- A **final quiz and practical evaluation** will be conducted on the last day.



Course Schedule

◆ Week 1

- Session 1:** Introduction to Plumbing & Heating Hazards
- Session 2:** Overview of PPE – Types, Use, and Limitations
- Session 3:** Safe Handling of Pressurized Systems and Hot Water

◆ Week 2

- Session 4:** Working Around Gas and Combustibles
- Session 5:** Emergency Procedures and First Aid Basics
- Session 6:** Standards, Regulations, and Practical Safety Scenarios



Learning Outcomes

Upon successful completion, participants will:

- ✓ Recognize hazards unique to plumbing and heating jobs.
- ✓ Apply correct **PPE usage and maintenance**.
- ✓ Perform safe work practices involving **water pressure, gas, and heat**.
- ✓ Respond to on-site accidents with **basic first aid and proper reporting**.
- ✓ Comply with **occupational health and safety regulations**.

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