

BARAKA GAS LTD

LABORATORY GAS SAFETY PROTOCOL

Standard Operating Procedures for Gas Usage

1. PRE-EXPERIMENT PREPARATION

- Verify that the main gas isolation valve is accessible and functioning.
- Ensure the fume hood is operational if working with volatile substances.
- Check that all Bunsen burner tubing is free from cracks and securely attached.
- Wear appropriate PPE (Personal Protective Equipment) including safety goggles and lab coat.

2. DURING OPERATION

- NEVER** leave a lit burner unattended.
- Use a striker or lighter to ignite the burner immediately after turning on the gas.
- Adjust the air intake to achieve a stable blue flame (yellow flames indicate incomplete combustion).
- Keep flammable materials (papers, chemicals) at least 1 meter away from open flames.
- Tie back long hair and secure loose clothing.

3. POST-EXPERIMENT SHUTDOWN

- Turn off the gas supply at the bench valve first.
- Allow the flame to extinguish completely.
- Close the main laboratory isolation valve if no other experiments are running.
- Double-check that all valves are in the "OFF" position before leaving.

⚠ EMERGENCY PROCEDURE

IF YOU SMELL GAS:

- Hit the Emergency Shut-Off Button immediately.
- Evacuate the laboratory calmly.
- Do not operate light switches or electrical equipment.
- Report to the assembly point and notify the safety officer.

