

Think Plus Academy Sdn Bhd

A-7-1, Ativo Plaza,
Bandar Sri Damansara,
Kuala Lumpur.

Tel : +603 – 6280 4985

Fax : +603 – 6280 4960

E-mail : training@thinkplusacademy.com

Website : www.thinkplus-academy.com



FURNACES - SAFE OPERATION (Practical Simulator Training)

COURSE CONTENT

- Different types of furnace. Operating conditions.
- Construction of heat exchange areas and refractory materials: tube bundle arrangement, insulation, type of materials used and operating limits.
- Combustion conditions: liquid and gas fuel characteristics.
- Burners: fuel and air supply and mixture. Conventional and low NOx burners operation. Combustion quality: analysis of the oxygen and the unburned material in the flue gases, control of combustion air flow rate and air/fuel ratio. Combustion safety: flame detection, control and safety devices
- Furnace operation
- Practice on dynamic simulator

OBJECTIVE

- Describe industrial combustion phenomena and calculate the air/fuel ratio for optimum combustion.
- Identify bad-quality combustion from flue gas analysis and flame study, and implement corrective steps.
- List and apply the main steps of a furnace start-up procedure.
- Recognize the main operating and material constraints for an optimal, safe and reliable furnace operation.

TARGET GROUP

The course is designed for those who are operation electricians, maintenance technicians, foremen and engineers in electrical field.

DURATION

2 days