



## Modern Steel Furnaces Technology: Maintenance & Operation

Date	Venues	(\$)Fees	Book your seat
07 Dec -11 Dec 2025	Cairo	2900	<a href="#">Register Now</a>

### Course Overview

Arc furnaces are special loads used by steel factories and aluminum alloys manufacturers. They consist of the furnace shell, on load tap-changing furnace transformer, power transformer, furnace circuit break, flexible leads, graphite electrodes, control system, reactors, power factor correction capacitors, static VAR compensators (TCR/FC) and harmonic filters.

### Course Objective

This course consists of five-day classes. The course is intended for operating personnel.

Areas covered include basic heat transfer, fuel, refractory, principals of design applications and operation of different pipe steel heaters (furnaces), heat exchangers and coolers.

### Who Should Attend?

Supervisors, technicians, foremen, pourers and operators are in petrochemical plants.

### Course Outline

- Introduction To Furnace
- Refractoriness Operation Of Machines And Its Relation To Failure
- Refractoriness
- Advantages Of Catalytic Cracking Over Thermal Cracking
- Thermal Cracking Reaction
- Influence Of Various Parameters In Cracking
- Heat Transfer
- Factor Affecting Heat Transfer
- Types Of Exchangers
- Fired Heater (Furnace)
- Cooling Towers

### Training Methodology

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise

- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation



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