Garnet
Garnet Global Training Center

GGT-PG-124

Power Generation & Utilities **Rare specialisation**

# Excitation Systems

أنظمة الإثارة

| Duration | Language | Formats | Hours | Level |
|---|---|---|---|---|
| **5 or 10 days** | **English or Arabic** | **Classroom, online, in-house** | **35 / 70** | **Intermediate (practitioner)** |

## Overview

Participants in Excitation Systems practise the methods, tools and standards they need to perform reliably and solve problems on the job. Operation and maintenance of power plants, grids and utility services. You can join a public session in one of 20 cities or live online, in English or Arabic, or bring the course in-house with examples from your own operations.

## What you will be able to do

- Apply the methods and standards of Excitation Systems to real tasks.
- Interpret data and results correctly and act on them.
- Follow safe, compliant and documented work practices.
- Avoid the mistakes that most often cause rework or failure.
- Share good practice with your team.

## Who should attend

Power plant engineers, operators, utility planners and grid specialists. Practitioners with one to five years of experience benefit most.

## Key topics

- Thermodynamics and plant performance
- Boilers, turbines and generators
- Grid operation and dispatch
- Reliability and outage planning
- Emissions and environmental compliance
- Plant case studies

## Formats and fees

| | |
|---|---|
| 5-day classroom | **USD 4,750** |
| 5-day online | **USD 2,950** |
| 10-day classroom | **USD 8,950** |
| 10-day online | **USD 5,450** |
| In-house | **Quotation per group** |

Fees per participant, excluding VAT.

## Register or ask

**WhatsApp:** +971 56 674 7382

**Email:** info@garnettrainings.com

**Training:** training@garnettrainings.com

**Web:** garnettrainings.com

Sharjah Publishing City Free Zone, Sharjah, UAE

## Certificate

Participants who attend at least 90% of sessions and complete the final assessment receive a certificate of completion stating 35 contact hours (5-day) or 70 contact hours (10-day).

## 5-day outline

### Day 1 Excitation Systems: principles and standards
- Emissions and environmental compliance
- Regional and international case studies

### Day 2 Methods and tools in practice
- Plant case studies
- Thermodynamics and plant performance

### Day 3 Diagnosis and problem solving
- Boilers, turbines and generators
- Checklists and templates to take away

### Day 4 Quality, safety and documentation
- Grid operation and dispatch
- Group discussion and peer review

### Day 5 Workshop, assessment and action plan
- Reliability and outage planning
- Measurement and reporting

## 10-day outline

### Day 1 Excitation Systems: principles and standards
- Emissions and environmental compliance
- Regional and international case studies

### Day 2 Methods and tools in practice
- Plant case studies
- Thermodynamics and plant performance

### Day 3 Diagnosis and problem solving
- Boilers, turbines and generators
- Checklists and templates to take away

### Day 4 Quality, safety and documentation
- Grid operation and dispatch
- Group discussion and peer review

### Day 5 Workshop, assessment and action plan
- Reliability and outage planning
- Measurement and reporting

### Day 6 Advanced techniques and specialist practice
- Complex cases in depth
- Hands-on workshop on a workplace challenge

### Day 7 Digital tools, data and automation
- Analysis tools and software
- Using AI in this field

### Day 8 Benchmarking against international practice
- Global performance benchmarks
- Common mistakes and how to avoid them

### Day 9 Capstone project
- Analyse a real challenge from your organisation
- Build the solution and implementation plan

### Day 10 Presentations, final assessment and certificates
- Project presentations and review
- Final exam and certificate award

## Schedule 2027–2030

| Dates | Format | City | Language | Fee (USD) |
|---|---|---|---|---|
| 4–15 Jan 2027 | 10-day classroom | Barcelona | English | 8,950 |
| 10–14 May 2027 | 5-day classroom | London | English | 4,750 |
| 13–17 Jun 2027 | 5-day classroom | Riyadh | Arabic | 4,750 |
| 6–10 Sep 2027 | 5-day online | Live online | Arabic | 2,950 |
| 8–19 May 2028 | 10-day online | Live online | Arabic | 5,450 |
| 12–16 Jun 2028 | 5-day classroom | Amsterdam | English | 4,750 |
| 10–14 Jul 2028 | 5-day classroom | Barcelona | English | 4,750 |
| 11–22 Dec 2028 | 10-day classroom | Kuala Lumpur | English | 8,950 |
| 12–23 Feb 2029 | 10-day classroom | Abu Dhabi | Arabic | 8,950 |
| 15–19 Oct 2029 | 5-day classroom | Kuala Lumpur | English | 4,750 |

| Dates | Format | City | Language | Fee (USD) |
|---|---|---|---|---|
| 11–15 Nov 2029 | 5-day classroom | Doha | English | 4,750 |
| 17–21 Dec 2029 | 5-day online | Live online | Arabic | 2,950 |
| 5–9 Aug 2030 | 5-day classroom | Dubai | Arabic | 4,750 |
| 1–12 Sep 2030 | 10-day classroom | Manama | Arabic | 8,950 |
| 7–18 Oct 2030 | 10-day online | Live online | English | 5,450 |
| 15–19 Dec 2030 | 5-day classroom | Doha | Arabic | 4,750 |

Customised and in-house versions of this course are available on request. garnettrainings.com/en/customise/