SERBA DINAMIK SDN. BHD.(266724-K)
(A member of SERBA DINAMIK Group)

Fuel Cell Training Course Programme
(A renewable technology to produce electricity)

(PSMB Registered Training Provider No : 270, Class C)

Introduction

A fuel cell is a device that converts the chemical energy from a fuel into electricity through a chemical reaction with oxygen or another oxidizing agent. Hydrogen is the most common fuel, but hydrocarbons such as natural gas and alcohols like methanol are sometimes used. Fuel cells are different from batteries in that they require a constant source of fuel and oxygen to run, but they can produce electricity continually for as long as these inputs are supplied.

Fuel cells are becoming a strong viable source for producing electricity water and useful heat. Hydrogen is the most abundant element on Earth and makes up three quarters of the universe's mass. Hydrogen production is infinite and can provide the constant fuel needed in a fuel cell to produce our worlds electricity.

This course will give a detailed insight to Hydrogen Fuel Cell technology and the integration of renewables for complete energy systems.

Course Fee:
RM3,500.00 only

Course Instructor

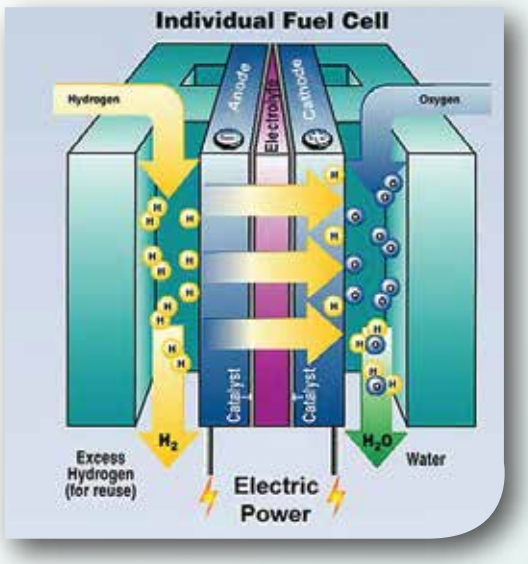
Dr. Vincenzo Ortisi :

He is a Senior Design Engineer of Pure Energy Centre, UK. Expert in renewable energy, hydrogen and fuel cell technologies.

- Responsible for delivery 42 training courses.
- Designed 23 renewable energy systems (Wind & Solar power)
- Responsible for integrating fuel cell solutions into complete energy systems.
- Project Manager and Development of a Fuel Cell Combined Heat and Power (CHP) funded by Scottish Government.
- Project Manager for the design and installation of 27 renewable hydrogen systems.

This includes : Electrolyser.

- Team Leader and responsible for all control and monitoring systems development.
- Designed and developed of Hydrogen fuel cell test bench.
- Process testing for MFC, PEM and SOFC fuel cells.
- Project Manager in development of a Fuel Cell.
- Developer of a fuel cell model using Matlab Simulink.
- Developer of an advanced control system for Fuel Cell using Artificial Intelligent



Who Should Attend

- √ Engineers
- √ Supervisors
- √ Inspectors
- √ R&D Officers

Venue

- Park Royal Hotel, Kuala Lumpur

Cancellation & Transfer

If you are unable to attend, a substitute participant is welcome to attend in your place at no additional charge. A full refund, less 10% administrative charge, will be given if cancellation is received in writing at least 14 working days prior to the course.

How To Register

Serba Dinamik Sdn. Bhd.
7-5, Pusat Dagangan UMNO Shah Alam, Lot 8, Persiaran Damai,
Seksyen 11, 40100 Shah Alam, Selangor.
Tel : 03 - 5511 3213 Fax : 03 - 5511 3212

Kindly send your registration form and cheque or bank draft, payable to:-
Serba Dinamik Sdn. Bhd.
7-5, Pusat Dagangan UMNO Shah Alam, Lot 8, Persiaran Damai, Seksyen 11, 40100 Shah Alam, Selangor.

Registration is on receipt of payment. Kindly ensure early booking for the limited seats to avoid any inconvenience

Content

Day 1

- Hydrogen Safety
- Hydrogen Storage
- Benefits of H2 Energy storage
- Hydrogen electrolyser principles
- Fuel Cell introduction

Day 2

- Fuel Cell System
- Fuel Cell application and Market
- Fuel Cell Installation Guide
- Case Studies
- Financials

Outcomes

OUTCOMES Module 1 - Hydrogen Safety

- Become familiar with the safety propeties of hydrogen
- Identify and evaluate hazards in a hydrogen system
- Know how to respond to emergency situations involving hydrogen
- Identify parameters important to hydrogen safety

OUTCOMES Module 2 - Hydrogen Strorage mechanism

- Become acquainted with the various methods of hydrogen storage available
- Understand advantages and disanvantages associated with each method

OUTCOMES Module 3 - Benefits of Hydrogen Energy storage

- Understand what the opportunities are for Hydrogen energy storage
- Investigation on Hydrogen energy benefits and applications

OUTCOMES Module 4 - Hydrogen electrolyser principles

- Understand what an electrolyser is
- Understand the basic reactions within the electrolyser.
- Identify the electrolyser operational considerations parameters and the electrolyser
- Identify the relationship between the operating parameters and the electrolyser subsystems

Registration Form

Course Fee : RM

☐ Yes! Please register the following participants for course **"Fuel Cell Training Course Programme"**

☐ I am unable to attend but please put me on your mailing list

No.	Name (Dr/Mr/Mrs/Ms)	Designation

Approving Manager/Contact Person:
Designation:
Company Stamp: