

Navigating Solar Power Class

(2 Days Course)

25 & 26 September 2024



Navigating Solar Power is an immersive **Two-Day Programme** designed for professionals to gain comprehensive expertise in the solar power industry. Day 1 covers the fundamentals: PV technology principles, types of solar panels, solar resource assessment, system sizing, solar economics, and environmental benefits. Day 2 delves into practical aspects: site assessment, system design, installation best practices, maintenance strategies, and the latest innovations like energy storage and smart grids.

The programme features interactive sessions, hands-on exercises, and real-world case studies to enhance the learning experience, enabling participants to apply their knowledge in practical scenarios. Networking opportunities with industry experts provide valuable insights and professional connections, further enriching the course.

By the end of the programme, attendees will have a thorough understanding of the solar power industry, equipping them with the skills needed to design, install, and manage solar power systems effectively. This course is ideal for engineers, project managers, policymakers, and professionals seeking to excel in the solar energy sector.

WHO SHOULD ATTEND THE COURSE

•**Engineers and Technicians:** Professionals involved in the design, installation, and maintenance of solar power systems seeking to enhance their technical skills and stay updated with the latest industry practices.

•**Project Managers:** Individuals responsible for overseeing solar power projects who need a comprehensive understanding of both the technical and economic aspects of solar energy.

•**Policy Makers and Regulators:** Government officials and regulatory bodies involved in crafting policies and regulations for the solar energy sector.

•**Renewable Energy Consultants:** Advisors and consultants who provide guidance on solar energy projects and need to stay abreast of the latest technological innovations and market trends.

•**Business and Finance Professionals:** Individuals in the financial sector, including investors, analysts, and financial planners, who want to understand the economic benefits and investment opportunities in solar energy.

•**Environmental Advocates and Sustainability Professionals:** Those working in sustainability roles who are interested in promoting solar power as part of a broader renewable energy strategy.

•**Entrepreneurs and Business Owners:** Individuals looking to enter the solar power industry or incorporate solar energy solutions into their existing businesses.

•**Academics and Researchers:** Scholars and researchers focused on renewable energy technologies who wish to deepen their knowledge of practical and regulatory aspects of the solar industry.



What You Will Gain

LEARNING KEY OBJECTIVES

- Understand the principles and technologies behind solar power.
- Learn about solar resource assessment, system sizing, and solar energy economics.
- Gain practical skills in site assessment, system design, installation, and maintenance.
- Explore the latest innovations in solar technology and energy storage solutions.
- Navigate regulatory and policy frameworks affecting the solar power industry.

LEARNING OUTCOMES

Upon completion of this course, participants will:

- Gain a thorough understanding of the latest solar photovoltaic and thermal technologies, including their principles, advancements, and practical applications.
- Develop an in-depth knowledge of the global solar energy market, including key trends, drivers, and the impact of various regional policies and regulations.
- Acquire practical insights through detailed case studies of both successful and challenging solar energy projects around the world, enhancing real-world applicability.
- Understand the financial aspects of solar energy, including different investment models, economic viability, and risk assessment strategies pertinent to the solar sector.
- Learn about the environmental impacts and sustainability of solar energy, including lifecycle assessments and contributions to achieving Sustainable Development Goals.



Course Schedule

- 08.40 am - Preparation / Registration
- 09.00 am - Training Session
- 10.45 am - Morning Break
- 11.00 am - Training Session
- 01.00 pm - Lunch Break / Prayer
- 02.10 pm - Training Session
- 03.15 pm - Afternoon Break
- 03.30 pm - Training Session
- 05.00 pm - End of Program

DAY 1

Foundations of Solar Energy

- Historical context, evolution, and current status of solar energy.
- Comparative analysis within the renewable energy landscape.
- Case Study: Historical milestones in solar energy development.

In-Depth Solar Photovoltaic (PV) Technologies

- Detailed principles of solar PV technology.
- Comparative study of PV systems: monocrystalline, polycrystalline, and thin-film.
- Cutting-edge innovations and technological advancements in PV.
- Case Studies: Breakthrough PV projects and technology evolution.

Advanced Solar Thermal Energy Concepts

- Deep dive into solar thermal energy principles.
- Comprehensive overview of various solar thermal systems.
- Innovative applications in industrial and residential sectors.
- Case Study: Leading solar thermal installations worldwide.

Solar Energy System Design and Implementation

- Advanced components and design principles.
- Best practices in installation, testing, and commissioning.
- Project management strategies for solar energy systems.
- Case Studies: Innovative design and successful implementation examples.



DAY 2

Financial Models and Solar Investments

- Detailed analysis of financial models for solar projects.
- Economic viability, return on investment, and market conditions.
- Risk analysis and investor perspectives in solar energy.
- Case Studies: Successful financial strategies in solar projects.

Solar Energy Technology Integration

- Challenges in integrating solar with other renewable technologies.
- Interoperability with smart grids and existing infrastructures.
- Future prospects and emerging technological trends.
- Case Studies: Effective integration examples in various contexts.

Advanced Solar Energy Storage Solutions

- In-depth focus on cutting-edge storage technologies.
- Analysis of battery types, cost trends, and storage efficiencies.
- Integration techniques for enhancing system reliability.
- Case Studies: Pioneering energy storage implementations.

Future Directions and Emerging Technologies

- Exploration of future trends and potential technological breakthroughs.
- Role of AI, machine learning, and blockchain in solar energy.
- Scenarios for solar energy's role in the global energy transition.
- Case Studies: Cutting-edge technologies and future potential projects.





**Tc. Norazizah binti
Abdul Rahman**

Professional Experiences

- 13 years experiences in Solar Cell and Module
- Lean Engineer
- Certified Technician Tc.
- Graduates Technologies MBOT

Professional Qualification / Certification

- Certificate and Diploma in Electrical and Electronic Engineering, Politeknik Port Dickson
- Bachelor Honour in Chemical Engineering, (UTM)
- Master Manufacturing System Engineering (UPM)
- Doctor of Philosophy in Optoelectronics Nano Fabrication and Material Characterization in Solar Research (USM On-going)

Professional Summary

Seeking a challenging full-time position within a multinational corporation offering a dynamic professional environment conducive to advancing technological skills and contributing to corporate goals through innovation.

With over a decade of experience in the engineering sector, specializing in Quality Audit, 5S, Bright Idea Implementation, LEAN SIX SIGMA Kaizen Project, TPM, and Cost Reduction. Responsible for overseeing Qual, Yield, OEE, FMEA, SPC, and 8D processes at manufacturing sites since 2011. Known for high self-discipline, responsibility, and adaptability, with a track record in implant processes (Aurora, NGT, PERC) and applying scientific and technical expertise to design, develop, and implement engineering models, tools, and processes. Proficient in automation and robotics systems.

Extensive career spans with Sunpower Malaysia, Maxeon Solar Technologies, Jinko Solar Technologies, and Omega Sonnen Solar, focusing on SPC, ISO quality standards (ISO 9001, ISO 14001, OSHA18001), and project management. Skilled in electrical power supply maintenance, electrical and electronic appliance repair, and internet system installation. Engages in lab experiments to optimize manufacturing processes, including simulation, hot spot identification, characterization, efficiency testing, and surface cell measurement.

Experienced in facilitating seamless transitions from product development to high-volume manufacturing. Holds a degree in Chemical Engineering from UTM under the SunPower Malaysia scholarship, complemented by advanced studies in Master Manufacturing System Engineering. Currently pursuing a PhD at USM, specializing in solar energy for PV cell optimization and efficiency enhancement.



REGISTRATION FORM

Room of Leaders
LEARN | LEAD | LIFESTYLE

Navigating Solar Power Class

25 & 26 September 2024

The Saujana Hotel Kuala Lumpur

Room of Leaders Sdn. Bhd. (1395906-M)
D8-05-01, Jalan PJU 1A/46, Pusat Perdagangan Dana 1,
Petaling Jaya, 47301, Selangor, Malaysia.
E: admin@roomofleaders.com
T: +603.7831 2838
W: www.roomofleaders.com

PLEASE COMPLETE THIS REGISTRATION FORM AND SEND IT BACK TO:

EMAIL: isaac@roomofleaders.com

CLIENT IDENTIFICATION DETAILS

Name (Participant 1):

Job Title:

Email:

Name (Participant 2):

Job Title:

Email:

Name (Participant 3):

Job Title:

Email:

COMPANY / ORGANISATION DETAILS

Company Name:

Contact Person:

Email:

Address:

City / Country:

Phone:

Website:

Name (Account Payable Officer / Finance)

Email (Account Payable Officer / Finance)

Standard Course Fee
RM 2,200 / Delegate

Group Package Fee (3 and above)
RM 1,800 / Delegate



Payment Method

Online Bank Transfer

Credit Card (Additional processing fee of RM40)

HRDC Claimable

- Course Fee (2 Days)
- Lunch & Refreshment During the Course Duration
- Certificate of Attendance

AUTHORISATION & ACCEPTANCE OF SALES CONTRACT & TERMS AND CONDITIONS

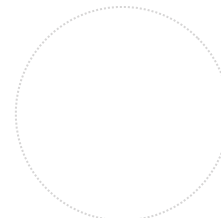
I hereby declare I am authorised to sign this contract and terms and conditions in the name of the company/organisation:

Name:

Date:

Signature:

Company Stamp:



(Booking is invalid without a signature or company stamp)

TERMS AND CONDITIONS

1. **Payment terms** Room of Leaders Sdn Bhd (hereinafter as provider) requires the full payment of the invoiced amount within 10 working days from the issue of the invoices or 3 working days prior to the start date of the event. whichever is earlier. Room of Leaders Sdn Bhd reserves the right to refuse entry to any client who does not pay the invoice in full and on time. If the payment is not received on Room of Leaders Sdn Bhd account on twelfth day from the date of the issue invoice, Room of Leaders Sdn Bhd is entitled to charge the client overdue interest of 3% p.a for every day, for which client payment is overdue. The registration fees includes, admission to the conference sessions, lunches and refreshments, admission to networking social breaks during the event (if there's any). The registration fee does not include: travel hotel accommodation, transfers or insurance.

2. **Hotel Accommodation.** Overnight accommodation is not included in the registration fee. A reduced rate maybe available at the hotel hosting the event. The registration form will be sent to the client after the venue has been confirmed, but not later than one month before the event begins.

3. **Cancellation by client.** The client has the right to cancel his/her participation the event. Cancellation must be received by Room of Leaders Sdn Bhd. in written by email. If the client cancels with more than one month's advance notice, before the start of the event, Room of Leaders Sdn Bhd shall be entitled to retaining charged 50% of the amount payable for participation in the event. If the client cancels with one month's (or less) advance notice, or fails to attend the event, then the client shall not be entitled to any refund. Failure to attend an event shall not excuse a client from owing the full amount of the registration fee. A copy of the conference notes from the event will be sent to the client after the event is over in case of cancellation by client.

4. **Cancellation by Room of Leaders Sdn Bhd** While every reasonable effort is made to adhere to advertised the program, circumstances can arise which may cause changes in the program, including but not limited to changes in the content, date(s), location or venue, or special features of the planned event. Such circumstances include but are not limited to acts of terrorism, war, extreme weather conditions, compliance with government requests, orders and legal requirements, failure of third party suppliers to timely deliver, and failure to register the minimum target amount of attendees for a given event, Room of Leaders Sdn Bhd reserves the right to change the content, date(s), location or venue and/or special features of an event, to merge the event with another event, or to postpone it or cancel it entirely as appropriate under the circumstances. Clients agree that Room of Leaders Sdn Bhd shall not be liable for any cost damage or expense which may be incurred by client as a consequence of the event being so changed, merged, postponed or cancelled and client agrees to hold Room of Leaders Sdn Bhd harmless and to indemnify Room of Leaders Sdn Bhd in case of liability caused by any such changes, mergers, postponements or cancellations.

5. **Cancellation of the event.** In case Room of Leaders Sdn Bhd cancels an event, then Room of Leaders Sdn Bhd may offer the client full credit up to the amount actually paid by the client to Room of Leaders Sdn Bhd This credit shall be valid for up to one year from the issue date of the invoice to attend any Room of Leaders Sdn Bhd sponsored events. The client shall not be entitled to this credit as a contractual right.

6. **Client's identification information.** By signing this Registration Form and these terms and conditions the client gives full right to Room of Leaders Sdn Bhd to share the client's identification information such as, but not limited to, client's name, address, email address, phone numbers and names of representatives with third parties, which participated on the same event as the client.

7. **Indemnification.** To the fullest extent permitted by the law, client agree to protect, indemnify, defend and hold harmless Room of Leaders Sdn Bhd its owners, managers, partners, subsidiaries, affiliates, officers, directors, employees and agents from and against any all claims, losses, or damages to persons or property, governmental charges, or fines, penalties and costs (including reasonable attorney's fee) (collectively 'the Claims'), in any way arising out of or relating to the event that is subject of this contract, and regardless of negligence, included but not limited to claims arising out of the negligence, gross negligence, or intentional misconduct of Room of Leaders Sdn Bhd employees, agents, contractors, and attendees; provided, however, that nothing in this indemnification shall require you to indemnify Room of Leaders Sdn Bhd indemnified parties for that portion of any claims arising out of the sole negligence, gross negligence, or intentional misconduct of the Room of Leaders Sdn Bhd parties.

8. **Other currencies.** In case that client requests payment in other than official currency (MYR Malaysian Ringgit) or US , Room of Leaders Sdn Bhd reserves the right to apply 8% currency risk surcharge to the actual exchange rate.

9. **Other conditions.** Any terms or conditions contained in the client's acceptance which contradict or are different from the terms and conditions of this registration document shall not become part of the contract unless individually negotiated with Room of Leaders Sdn Bhd and expressly accepted by Room of Leaders Sdn Bhd.