SHRDC

CENTRE OF EXCELLENCE FOR SUSTAINABLE ENERGY by SHRDC

MPiA
MALAYSIAN PHOTOVOLTAIC INDUSTRY ASSOCIATION

DRONE-BASED IR SOLAR PV INSPECTION USING DRONEEYE

3- DAYS TRAINING

CDP point entitlement:

seda Sustainable Energy Development Authority MALAYSIA

OBJECTIVES

Participants will be able to set-up and executedrone-based IR solar PV inspection to detectpanel defects and abnormalities, subsequentlyable to perform an analysis and produce reportas part of solar power plants operation andmaintenance procedures.

COURSE OBJECTIVES

Understanding the general overview of UAS technologies and related regulations and policies for drone-flying in Malaysia.
Ability to operate drone efficiently through manual and automated waypoint flight mission to collect aerial data for analysis.
Understanding the general overview of IR solar PV inspection and its requirements to meet industry's best practice and
standards.

Participants will be able to use Drone Eye software to upload
collected inspection data for analysis.

COURSE FEES

MPIA Member Fees:
RM 2970.00/pax (Inclusive SST 8%)

Non-Member Fees:
RM 3780.00/pax (Inclusive SST 8%)

VENUE

Time: 9.00am to 5.00pm
Venue: Drone Academy Asia

GET IN TOUCH

MPIA : secretary@mpia.org.my | 012-7343190
SHRDC : haleeda@shrdc.org.my | 013-5224565

TRAINERS PROFILE

Dr. Ahmad Maliki Bin Omar currently is the Head Green Energy Research Centre (GERC), Faculty of Electrical Engineering, Universiti Teknologi Mara. He obtained Bachelor Engineering (Hons) Electrical in 1985, University Malaya. He pursued his study at master level in Power Electronics in1992 at Loughborough University of Technology, UK. He gained his Phd in Power Electronics in year 2002 from University of Malaya. Dr. Maliki have various of certificate such as ISPQ Accredited for the Design and Installation of Grid-connected Photovoltaic Systems from Australia in 2007, design & Installation of Grid-connected Photovoltaic Systems, from SEDA and certificate Master Trainer on Maintenance Skill on PV & other Renewable Energy Power generation System in 2011 from NEDO Japan. Dr. Maliki specialisation are in power Electronics, Automation & dedicated controller and Photovoltaic Power System; design, analysis & monitoring.

Guang Ming is a highly motivated and dedicated individual who believes innovation andengineering are the keys to achieving a sustainable future. As a trainer, he infuses his trainingswith sincerity, dynamism, spurring learners to go the distance in realising their truest best self. Hefirmly believes that the best training programmes build a safe and conducive learning environmentthat empowers participants to apply the knowledge learned into areas of their work. As ChiefRemote Pilot with Drone Academy Asia, he has been a key developer of up-to-date UAS trainingpedagogies. Through his in-field and operational knowledge, he is able to transfer his experiencesto his students and clients. Along with that, he has reached out and provided technical knowledgesupport and has assisted numerous organisations on their use of drones for a cross section ofindustries. Guang Ming holds a First-Class Honours Bachelor Degree in Aerospace Engineering(Hons.) from Universiti Sains Malaysia (USM) and is a Certified Trainer by The Human ResourcesDevelopment Corporation (HRD Corp).

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TRAINERS PROFILE

Jeyraj Selvaraj received the B.Eng. (Hons.) degree from Multimedia University, Malaysia, in 2002, theM.Sc. degree in power electronics and drives jointly from the University of Birmingham, Birmingham,U.K., and the University of Nottingham, Nottingham, U.K., in 2004, and the Ph.D. degree from theUniversity of Malaya, Kuala Lumpur, Malaysia, in 2009. He is currently a professor and deputy executivedirector of University Malaya Power Energy Dedicated Advanced Centre (UMPEDAC), University ofMalaya. He has involved in the field of solar energy for 15 years. He has done more than 75 onsiteinverter tests under the FiT, LSS and NEM scheme in Malaysia. He is also a member of IEEE, IEM and amember of working group committee on Photovoltaic Standards of Department of Standards Malaysia.He is one of the recipients of NAM research training fellowship for young scientist and Royal AcademyEngineering UK's Leaders in Innovation Fellowship in 2016 and 2017 respectively. In 2019 he wasawarded the Erasmus+ Mobility Programme Fellowship followed by Asian Universities AllianceScholarship in 2020. He has published more than 70 high impact journals, 50 conference papers and 4book chapters.

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COURSE STRUCTURE

Day 1
Introduction to drone technologies and related regulations in Malaysia, including the fundamental procedures and hands-on session for drone-flying.

Day 2
Fundamental procedures for drone maintenance and component handling, including the usage of thermographycamera, creation of automated flight waypoint and risk assessment.

Day 3
Introduction to IR solar PV inspection method and fundamental knowledge on industry standards and the usage of Drone Eye software for inspection data analysis.

Online Assessment
Assessment on basic understanding of drone-based IR solar PV inspection using Drone Eye software.

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