AMVIP
SUSTAINABLE TECHNOLOGIES · ECONOMY · ENVIRONMENT

HRD CORP CLAIMABLE

Program No:-
10001649174

AC & DC INTERFERENCES: THE UNDERSTANDING, DETECTING, MITIGATION AND MONITORING

RM400

MasterClass series

Understand AC & DC interferences, assess their risks, and learn effective methods for prediction, detection, mitigation, and monitoring.

OUR SPECIAL MENTOR

TS. KANG KIM ANG

- HRD CORP ACCREDITED TRAINER
- 29+ YEARS AS TRAINER FOR IMM CERTIFICATION PROGRAMS
- 7+ YEARS TRAINING PETRONAS SKILL GROUP (LEVEL 3 CATHODIC PROTECTION)

WHAT YOU WILL LEARN:

- THE EXISTENCE OF AC & DC INTERFERENCES
- HOW DANGEROUS ARE AC & DC INTERFERENCES
- PREDICTION AND DETECTION
- MITIGATION & MONITORING

DATE & TIME

UPON REQUEST

8.30AM - 5.00PM

LOCATION

TO BE ARRANGED

CONTACT US

CONTACT
AMVIP2019@GMAIL.COM
FOR MORE INQUIRY

FOR REGISTRATION & INFORMATION

WWW.AMVIP.ORG

COURSE DESCRIPTION

The growing demand for energy transportation through cross-country pipelines and overhead high voltage AC (HVAC) coupled with the rapid expansion of electrified public transport systems such as MRT, LRT, and trams have significantly increased the risk of AC and DC interferences to adjacent buried metallic structures. This Master Class provides a comprehensive understanding of the sources, mechanisms, and impacts of both AC and DC stray currents— focusing on their effects on pipeline integrity and safety.

Participants will gain insights into the latest industry practices and technologies for detecting, monitoring, and mitigating interferences from high-voltage AC powerlines and DC traction systems. Emphasis is placed on real-world scenarios, including co-location challenges, urban transit environments, and the application of international standards. This session is designed for engineers, asset owners, and corrosion specialists aiming to protect critical infrastructure in increasingly congested corridors.

Join us to enhance your competency in safeguarding buried assets amidst modern energy and transport developments.

Key Learning Outcomes

- The existence of AC & DC Interferences
- How dangerous are AC & DC Interferences
- Prediction and detection
- Mitigation & monitoring

WHO SHOULD ATTEND?

Anyone involved in the design, installation, monitoring, and maintenance of pipelines and cathodic protection systems.

- **Corrosion & Cathodic Protection Engineers**
- **Pipeline Integrity Engineers**
- **Electrical Engineers – transmission systems**
- **Rail System Engineers & Mass Transit Rail Authorities**
- **Asset Owners & Operators (Oil & Gas, Power, Utilities, Water)**
- **Consultants & Contractors – engaged in pipeline route planning, co-location assessments, or CP installations**
- **Regulatory & Compliance Officers**
- **Health, Safety & Environmental (HSE) Personnel**

**No Pre-Requisites in Qualifications*
**Participants require a reasonable understanding of English*

SCHEDULE

8:30am – 9:00am	Registration
9:00am – 10:30am	Session 1 (1.5 hours)
10:30am – 11:00am	Tea-break
11:00am – 12:30pm	Session 2 (1.5 hours)
12:30pm – 2:00pm	LUNCH (included)
2:00pm – 4:00pm	Session 3 (2 hours)
4:00pm – 4:30pm	Tea-break & Group Photo
4:30pm	ADJOURN

- Face-to-face lectures conducted in English
- AMVIP Certificate of Attendance (5 hours CPD)
- **Industry-focused**: 100% case studies from real industrial failures

SYLLABUS

Morning Session	Afternoon Session
• Introduction • Impact of DC stray current • Sources of DC stray current • CP-related stray current • Detection of DC stray current • Mitigation of DC stray current • Industrial awareness & responsibilities	• Introduction • AC couplings & the dangers • Factors influencing AC interference • Personnel safety considerations • Detection and monitoring • Prevention & Mitigation

ABOUT THE TRAINER

TS. KANG KIM ANG

- HRD Corp accredited trainer
- 29+ years as trainer for IMM certification programs
- 7+ years training Petronas Skill Group (Level 3 Cathodic Protection)

Graduated with Diploma in Materials Engineering from Tunku Abdul Rahman (TAR) College and MSc in Corrosion Sc and Engineering from University of Manchester. A Corrosion Specialist and Cathodic Protection Specialist accredited by National Association of Corrosion Engineers (NACE/AMPP), USA and the Institute of Materials, Malaysia (IMM). A Professional Technologist registered with MBOT. Over 36 years in Corrosion Control, Cathodic Protection, Pipeline Integrity Inspection by MTM technology, Heavy-duty Coatings, Passive Fire Protection, and Corrosion Inspection in the Oil & Gas, Marine, Petrochemical, Construction and Industrial Sectors in Malaysia, South East Asia, Middle East and Africa. NACE/AMPP Cathodic Protection CP1 & CP2 instructor since 2014 and an HRD Corp accredited trainer. Over 8 years in part-time lecturing of Corrosion Engineering subjects at higher learning institutions in Malaysia.

Over 29 years as an invited trainer for Institute Materials, Malaysia, for the cathodic protection training & certification program. Over 7 years as an invited trainer for Petronas Skill Group 15 for Level 3 Cathodic Protection. Over 6 years as an industrial advisory panel member for TAR-UMT and UTAR.

IMM Council Member: 2022 – 2024, 2024-2026
Currently the Managing Director of CORRTROL Group of companies.

PARTICIPANT FEE

CATEGORY	DEADLINE	AMOUNT (RM) AMVIP MEMBER	AMOUNT (RM) NON MEMBER
EARLY BIRD FEE	14TH APRIL	400.00	450.00
NORMAL FEE	21ST APRIL	440.00	490.00
LATE REGISTRATION	27TH APRIL	500.00	550.00

PAYMENT METHODS

IBG, CDM, Cheque, telegraphic transfer or bank draft
SEND PAYMENT SLIP WITH REGISTRATION TO
amvip2019@gmail.com

Account Name: PERSATUAN AHLI MAHIR BAHAN, GETARAN DAN PENEBAT MALAYSIA
Account No: 8010289200
Swift Code: CIBBMYKL
Bank Name: CIMB BANK BERHAD
Bank Branch: BANDAR PUTERI PUCHONG, SELANGOR
Country: MALAYSIA

TERMS & CONDITIONS

- Full payment to be made upon registration.
- 50% refundable if cancellation is made 14 days before course date.
- No refund if cancellation is made 7 days before course date, however, replacement participant allowed.
- AMVIP reserves the right to reject any participant into the classroom if payment has not been confirmed.

ASSOCIATION OF MATERIALS, VIBRATION & INSULATION PRACTITIONERS, MALAYSIA (AMVIP)

(TIN No: F-59596806060) *(ROS No: PPM-002-10-25092019)*

Secretariat Address: 14, Jalan Industri PBP 3, Taman Industri, Pusat Bandar Puchong, 47100 Puchong, Selangor, Malaysia.
Website : www.amvip.org
Email: amvip2019@gmail.com
Tel: +603-8060-2335

(REGISTRATION No: PPM-002-10-25092019)