

REGISTRATION FORM
4 DAY e-TRAINING ON
"METAL PLATING FOR CORROSION AND WEAR"
22, 23, 24 & 25 FEBRUARY 2022 (9.00 AM – 1.00 PM)

REGISTRATION FEE

	Registration Fee	SBL-Khas	Non-Contributor
		Please Tick (✓)	
Members / Non Members	RM1,200		
		Application No: _____	

Please register the following person/s:

Name: _____
 Designation: _____
 Email: _____ Contact no.: _____
 MISIF member Non-MISIF member

Name: _____
 Designation: _____
 Email: _____ Contact no.: _____
 MISIF member Non-MISIF member

Name: _____
 Designation: _____
 Email: _____ Contact no.: _____
 MISIF member Non-MISIF member

Particulars of person making booking:

Name: _____
 Designation: _____
 Company/Organization: _____
 Address: _____
 Tel: _____ Fax: _____ Email: _____

e-TRAINING ON METAL PLATING FOR CORROSION AND WEAR

22, 23, 24 & 25 FEBRUARY 2022

SBL-KHAS
 Course Serial No.
 10001151268
 MyCoID: 473883H



PLATFORM:
 ONLINE VIA WEBEX

TRAINER:
ASSOC. PROF. DR. NURULAKMAL BT. MOHD SHARIF
 SCHOOL OF MATERIALS AND MINERAL RESOURCES,
 ENGINEERING CAMPUS, UNIVERSITI SAINS MALAYSIA

ORGANISED BY: UNIVERSITI SAINS MALAYSIA & USAINS HOLDING SDN BHD
IN COLLABORATION: MALAYSIAN IRON AND STEEL INDUSTRY FEDERATION
SUPPORTED BY: SOUTH EAST ASIA IRON AND STEEL INSTITUTE



INTRODUCTION

This course is designed to provide basic knowledge on metallurgy (structure and properties, processing techniques), and fundamental of metal plating. At the end of this course, participants should be able to:

- (i) Explain structure-process-properties relationship for metals and alloys;
- (ii) Understand basic principles of plating (electroplating and electroless);
- (iii) Apply knowledge on basic principles to do trouble shooting (for typical defects / problems occurring during plating);
- (iv) Differentiate between the various plating processes (electroplating, electroless plating, anodizing, CVD, PVD) and understand the typical parameters involved in each processes.

COURSE CONTENTS

- Lecture 1 – Structure – properties – process relationship for steel
- Lecture 2 – Hardness & Wear
- Lecture 3 – Corrosion of Metal
- Lecture 4 – Fundamentals of Plating
- Lecture 5 – Electroplating: Kinetics and Process Control
- Lecture 6 – Electroplating: Bath solution
- Lecture 7 – Electroless Metal Deposition
- Lecture 8 – Other Deposition Process: Anodizing, PVD, CVD

ABOUT THE INSTRUCTORS

ASSOC. PROF. DR. NURULAKMAL BT. MOHD SHARIF joined USM Engineering Campus in 2001 after completing her PhD in Materials Engineering (Metallurgy) from University of Wales Swansea, United Kingdom. She is currently an Assoc. Professor at School of Materials & Mineral Resources Engineering, USM. She has obtained several grants from USM, JICA and also MOSTI to develop alloys for high temperature application, Intermetallic composites, fatigue of Al composites, and development of lead-free solder alloy. She was a member of the MLVK advisory board (Steel making & Foundry) (2007), MARA advisory board (Electroplating Technology Certificate and Diploma in Foundry) (2011) and also has conducted many training courses for MISIF, Intel, KOBE Precision, Kilang Sprocket and others. Consultation works include heat treatment on steel, microstructure studies and recycling of solid waste into valuable product.

WHO SHOULD ATTEND

This course is designed for engineers, maintenance engineers, managers, supervisors who wish to broaden their knowledge of metallurgy of steel and general corrosion knowledge.

ABOUT USAINS HOLDING SDN BHD

USAINS Holding Sdn Bhd (USAINS) formed in 1998, is the corporate arm of Universiti Sains Malaysia (USM).

ABOUT MALAYSIAN IRON AND STEEL INDUSTRY FEDERATION (MISIF)

The Malaysian Iron & Steel Industry Federation (MISIF) is the national association representing the iron and steel manufacturing companies of Malaysia. Among its many activities, MISIF regularly organizes technical training courses relevant to the metalworking sector. MISIF has recently obtained the support of USM to conduct courses related to materials and metallurgy.

DATE, TIME AND PLATFORM

Date : **22, 23, 24 & 25 February 2022 (Tuesday-Friday)**
Time : **9.00 am – 1.00 pm (Daily)**
Platform: **Online via Webex**

REGISTRATION FEE AND ADMINISTRATIVE DETAILS

MEMBERS / NON MEMBERS: RM1,200
DEADLINE FOR REGISTRATION: 21 FEBRUARY 2022 (MONDAY)

1. **No refund** will be entertained although participants can be substituted at any time.
2. The organizer reserves the right to cancel, reschedule, postpone or amend the course date/venue/programme, due to unforeseen circumstances.

SKIM BANTUAN LATIHAN

Companies registered with HRDF can apply for refund under **SBL-Khas Scheme**.

FOR INFORMATION

Mr. Khairol Anuar Mohammed

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Ms. Norlian Mohamed Najib

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