TRAINING COURSE ON METAL DEFORMATION: BULK & SHEET METAL WORKING

~~17-18 DECEMBER 2025~~

RESCHEDULED 19-20 JANUARY 2026

Assoc. Prof. Dr. Nurulakmal Mohd Sharif &
Assoc. Prof. Ir. Dr. Anasyida Abu Seman
School Of Materials & Mineral Resources Engineering, Universiti Sains Malaysia (USM)

INTRODUCTION

Metal forming includes a large group of manufacturing process employed to change the shape of metal work pieces. Some forming processes stretch the metal, while others bend the metal and still others shear the metal. To be successfully formed, there also needs to be consideration given to the properties of the metal, desirable of which includes low yield strength and high ductility.

For the many companies involved in the engineering, fabrication, pipe-making and also service centres, MISIF is introducing this course to help the operational employees to better appreciate the material and processes they are working with.

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.

Course Series No.: 10001615672

COURSE CONTENTS

* Fundamentals of Metal Forming Process; Strain Hardening, Hot & Cold Working
* Effect of Heat (Annealing, Recrystallization)
* Friction and Lubrication in Metal Forming
* Forging Operation
* Rolling Operation: Flat Rolling and Shape Forming
* Extrusion and Wire Drawing
* Review of Metal Behavior and Case Study Discussion
* Sheet Metal Characteristics and Test Methods for Formability
* Selection and Use of Lubricants in Forming of Sheet Metal
* Stamping, Shearing and Cutting
* Bending and Forming of Tubes (Including Hydroforming)
* Introduction to Deep Drawing, Stretch, Spinning, Rubber-Pad Forming, Roll-Forming, Explosive Forming, and Electromagnetic Forming
* Tool Wear, Coating & Surface Treatments

REGISTRATION FEE AND ADMINISTRATIVE DETAILS

Members : RM1,500 per participant
Non-Members: RM1,700 per participant
Deadline For Registration: 15 January 2026 (Thursday)

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

ORGANISED BY: MALAYSIAN IRON AND STEEL INDUSTRY FEDERATION (MISIF)
SUPPORTED BY: SOUTH EAST ASIA IRON & STEEL INSTITUTE (SEAISI)

TRAINING COURSE ON METAL DEFORMATION: BULK & SHEET METAL WORKING

19-20 JANUARY 2026

Course Series No.: 10001615672

DATE AND VENUE
Date: **19-20 January 2026 (Monday-Tuesday)**
Time: **9.00 a.m. – 5.30 p.m. (Daily)**
Venue: **MISIF Training Room, Shah Alam, Selangor**

SKIM BANTUAN LATIHAN
Companies registered with HRD Corp can apply for refund under HRD Corp Claimable Course Scheme (formerly known as SBL Khas).

ABOUT THE TRAINERS (HRDC Certified Trainers):

Assoc. Prof. Dr. Nurulakmal 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, MOHE, MOSTI and CREST to develop alloys for high temperature application, metal composites, development of lead-free solder alloy and metal ternary / composite coating. 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, AT & S, and others. Consultation works include heat treatment on steel, microstructure studies and recycling of solid waste into valuable product.

Assoc. Prof. Ts. Ir. Dr. Anasyida Abu Seman is a lecturer at School of Materials and Mineral Resources Engineering, USM Engineering Campus since 2010. She has completed her PhD in Materials Science from Universiti Kebangsaan Malaysia. Her research interest includes casting, severe plastic deformation, metal coating, welding, wear and soldering. Previously she worked as senior process engineer in Flex (formerly known as Solectron) for about 6 years. She has obtained several grants from USM, MOHE, AUNSEED/Net and MOSTI to develop aluminium composite, semi-solid aluminium alloy, friction stir welding, and ultrafine grained structure for aluminium and steel. In term of supervision, she graduated 18 postgraduate students as main and co-supervisor. She also actively giving technical talk to several industries such as Southern Steel, Kobe and MISIF.

REGISTRATION FORM

Please register the following person/s for the **"Training Course":**
Fee: Members: RM1,500 Per Participant
Non-Members: RM1,700 Per Participant
Enjoy a 10% discount for group registrations of three (3) participants.

PLEASE TYPE IN BLOCK LETTERS:-

1. **NAME:** _____ **DESIGNATION:** _____
   EMAIL: _____ **TEL NO:** _____
2. **NAME:** _____ **DESIGNATION:** _____
   EMAIL: _____ **TEL NO:** _____
3. **NAME:** _____ **DESIGNATION** _____
   EMAIL: _____ **TEL NO:** _____

SUBMITTED BY: _____

DESIGNATION: _____ **EMAIL ADDRESS:** _____

COMPANY NAME: _____ **TEL NO:** _____

FOR INFORMATION
Ms. Norlian Mohamed Najib
MALAYSIAN IRON & STEEL INDUSTRY FEDERATION (MISIF)
28E & 30E, 5th Floor, Block 2, Worldwide Business Park,
Jalan Tinju 13/50, Section 13, 40675 Shah Alam, Selangor
Tel: 03–55133970 / Fax: 03–55133891 / Email: norlian@misif.org.my