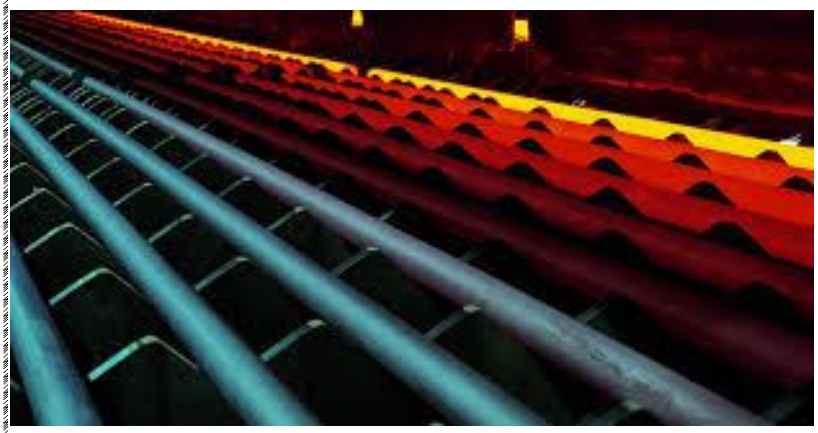
TRAINING COURSE ON CLEAN STEEL TECHNOLOGY
30-31 MAY 2023
MISIF TRAINING ROOM, SHAH ALAM, SELANGOR



Dr. Sheikh Abdul Rezan bin Sheikh Abdul Hamid
School Of Materials & Mineral Resources Engineering, Universiti Sains Malaysia (USM)

INTRODUCTION

Steel production has evolved over many centuries and new technological improvements are being made daily. The making, shaping and treating of steel are critical to product design, application, cost and performance. Therefore, knowledge of these processes is essential to employees working in producing, supplying and designing iron and steel products. These employees need basic understanding of steel production, making, shaping and treatment to final products. This course will be an introductory journey for those who have non-technical background in metallurgical engineering. It is hoped after taking this course, the participants will understand the technical aspects of steel manufacturing, properties and applications.

LEARNING OUTCOMES AND OBJECTIVES

The course will be applicable to both EAF and BOF producers. The course will stress the relationships between the fundamental principles which govern the various processes and the attainment of a consistent quality operation. The course is appropriate for people involved in the operation, start-up and control of steelmaking vessels, ladle metallurgy stations and continuous casters as well as those supplying materials to the above installations. It is appropriate for billet, bloom, and thick and thin caster personnel.

COURSE CONTENTS

Lecture 1: Steel – Types and Properties
Lecture 2: Steel: Overview of Making, Shaping and Treating of Steel – Evolution of Iron and Steelmaking
Lecture 3: Ironmaking and Steelmaking
Lecture 4: Secondary Steelmaking
Lecture 5: Ladle Metallurgy
Lecture 6: Strategies for Clean Steel
Lecture 7: Continuous Casting of Steel Products
Lecture 8: Solidification of Steel – Casting Defects and Prevention

WHO SHOULD ATTEND

Iron and Steelmaking Industries in Malaysian and ASEAN.

METHODOLOGY

* This course will be conducted on-site (Face-to-Face) at MISIF Training Room, Shah Alam, Selangor.
* Each participant will receive a set of course materials.

REGISTRATION FEE AND ADMINISTRATIVE DETAILS

Members / Non-Members: RM1,500 per participant
Deadline For Registration: 26 May 2023 (Friday)

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)

TRAINING COURSE ON CLEAN STEEL TECHNOLOGY 30-31 MAY 2023

DATE AND VENUE

Date : **30-31 May 2023 (Tuesday-Wednesday)**
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 Skim Bantuan Latihan (SBL) Scheme.

ABOUT THE TRAINER

Dr. Sheikh Abdul Rezan joined USM Engineering campus in 2010. He completed his PhD in Materials Engineering (Pyrometallurgy) from University of New South Wales, Australia in 2010. His undergraduate degree was from Alfred University (New York), USA and Master in Engineering from UTM, Johor. He has published more than 100 journals and conference papers combined in the field of extractive metallurgy, steelmaking, marine corrosion and high temperature ceramics. He was an invited member to Malaysia Steel Institute (MSI) and SIRIM committee for Malaysian Standard for raw materials for iron, steel and intermediate products (TC/P/1). His research interest included sacrificial zinc anode for cathodic protection (SACP), marine corrosion, steelmaking waste recycling and pyro-processing of titanium minerals. He is actively working on the recycling of EAF/BF steel slag, SACP for marine applications and production of titanium tetrachloride and titanium metal by low temperature chlorination process. Dr. Sheikh Abdul Rezan has been conducting "Introduction to Steelmaking" and various other short courses from 2011 with MISIF and USM.

REGISTRATION FORM

Please register the following person/s for the **"TRAINING COURSE"**.

PLEASE TYPE IN BLOCK LETTERS:-

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

SUBMITTED BY: _____

DESIGNATION: _____ **EMAIL ADDRESS:** _____

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

ADDRESS: _____

FOR INFORMATION
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