WM61

Delivery mode :
Online

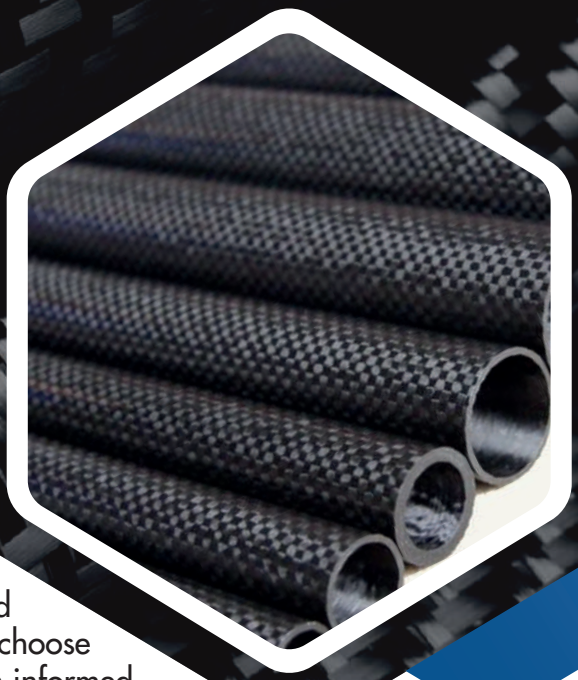
Plastics & Composites **Applications in Mechanics**

Acquire basic knowledge of plastic and composite materials and their industrial applications

12 June - 15 June 2023
2.30pm - 5.30pm

16 June 2023
3pm - 5pm

5 days



Polymers, as plastics or composites, offer numerous advantages in weight, fatigue resistance, and corrosion resistance. Come and learn about the potential of materials in the mechanical industry to be able to list the advantages and disadvantages of the main polymer families and know how to choose the right process based on the types of pieces, while having an informed look at the environmental impact.

WHO SHOULD ATTEND

Technicians and engineers from research labs and process departments, and anyone who wish to have basic knowledge on plastics and composite materials (technical sales, purchasers, quality control staff).

HRDCORP CLAIMABLE

SCAN HERE

SKILL AIMS

- Be innovative on the introduction feasibility of plastic and composite elements
- Have a critical view concerning the choice of materials as well as the implementation processes already existing in companies or to be implemented
- Be aware of the environmental impact of the manufacture or use of plastic and composite elements

PRE-REQUISITES

- None

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COURSE OBJECTIVES

Teaching objective

Identify different plastics and composites and their applications;

Talk about the specifics, advantages and disadvantages of plastic and compositematerials;

Talk about different processes of implementation as well as advantages and their limits

COURSE OUTLINE

Module 1
Introduction, General Information on Polymers

Module 2
Plastic materials, description and characteristics

Module 3
Composite material applications and implementation

Module 4
Processes of implementation: composites and plastics

Module 5
Recycling polymers and course wrap-up (training evaluation)

TRAINER

This course will be carried out by Michel Orbria, material and process engineer, specialized in composites materials transformation.

Michel Orbria

SKILLS

- Material processing and characterisation (polymer, composite, metal, ceramic)
- European project management

AREAS OF EXPERTISE

- Physical-chemical and mechanical testing analysis
- Thermoplastic and thermoset composite materials forming
  - Filament winding
  - Thermoforming, stamping
  - Injection moulding
  - Drape moulding, vacuum infusion
- Support to choose the best manufacturing process depending on customer specifications

PROFILE

Work experience

- Industrialization : one year as a project manager at ARCELORMITTAL. Main project: improve the productivity of ultra-high resistance galvanized steel
- Aerospace : delivery document manager for AIRBUS

Education

- Material Science Engineering Degree (Polytech Lille, 2019)

FEE

LIMITED OFFER

RM1,600/pax

(inclusive of course materials & certificate)

PAYMENT

Electronic Fund Transfer / Telegraphic Transfer to:

Account Number : 8002167906
Account Name : UPM EDUCATION & TRAINING SDN BHD
Bank Name : CIMB BANK BERHAD
Country : MALAYSIA
SWIFT Code : CIMBMYKL
Bank Address : CIMB BANK, SERDANG PERDANA

Please stated in the payment reference:
a) WM61 b) Participant name
*Please send us proof of payment through email.

FOR INQUIRY PLEASE CALL

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