



University of Bahrain MICRO-CREDENTIAL



KNOW-HOW OF ADDITIVE MANUFACTURING

GENERAL INFORMATION

Duration: 8 Weeks

Total Hours: 80 hours

Venue: To be announced

Fees: 500 BHD

Credits: 2 credits

Level: Postgraduate

Language: English

Pre-requisite: Manufacturing or Materials or Relevant Technical knowledge/Practice

INSTRUCTORS BIOGRAPHY

Prof. Ghulam Hussain

Professor, Mechanical Engineering, UOB.

PhD in Mechanical Engineering, is a leading expert in manufacturing with over 140 publications and recognition as a top researcher.



Dr. Osama Al Jamal

Assistant Professor, Mechanical Engineering, UOB.

PhD in Advanced Manufacturing, specializes in manufacturing processes and engineering management.



Micro-credential is a short, focused course designed to equip learners with specific skills and knowledge within a specialized area. It serves as a pathway to earning an equivalent certification for a core course, offering a flexible and targeted learning experience.

COURSE OVERVIEW

This course introduces Additive Manufacturing (AM) to regional professionals, covering AM processes, design guidelines, applications, limitations, and material types. It includes case studies, practical experience, and strategies to improve the mechanical performance of AM products, helping participants find competitive solutions for manufacturing complex components.

TARGET AUDIENCE

- Production managers and engineers
- Professionals in oil and gas, material production, air conditioning, home appliances, electronics, healthcare and construction sectors.
- Project managers and team leaders in local organizations.
- Public sector employees in healthcare, utilities, and education.
- Entrepreneurs and SME owners.
- Mid-level professionals seeking career growth.
- Entry-level professionals and recent graduates.

DELIVERY MODE

80 hours over the course span blends in :

- In-person Delivery (24 hours)
- Blended Content Delivery (14 hours)
- Case Study (17 hours)
- Guided Project Work (25 hours)

ASSESSMENTS

- Exam (25%)
- Case Studies (25%)
- Guided Project (50%).

KEY TOPICS COVERED

- Additive Manufacturing fundamentals, processes, and production chain
- Applications, benefits, and cost models
- Design guidelines and process selection
- AM standards
- Polymers: VAT Polymerization, Material Extrusion, Powder Bed Fusion
- Ceramics: Extrusion, Direct Energy Deposition, Powder Bed



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For further Information, please contact:

Mr. Mohammed Al-Hooti

Tel: +973-33777339

Email: malhooti@uob.edu.bh

<https://microcredentials.uob.edu.bh/>