INDUSTRIAL SHORT COURSE

APPLICATION AND IMPLEMENTATION OF ADDITIVE MANUFACTURING FOR PRODUCTION

FOR

SMALL, MID, AND LARGE MANUFACTURERS, AND SUPPLIERS

This industrial short course is aimed on delivering learning modules in classroom and **hands-on laboratory** setting on production quality AM equipment. Teaching modules will address various aspects of production from feedstock metal powders to prototypes of designs for metal parts.

THE ONE DAY COURSE WILL COVER THE FOLLOWING LEARNING MODULES:

ADDITIVE MANUFACTURING CONCEPTS
BASICS OF AM, VALUE PROPOSITIONS AND DESIGNS

METAL ADDITIVE MANUFACTURING - 1
OVERVIEW OF METAL AM TECHNIQUES - LASER-POWDER BED FUSION (L-PBF) AND DIRECTED ENERGY DEPOSITION (DED).

AM IMPLEMENTATION IN PRODUCTION
FACILITY DESIGN, OPERATIONAL PLANNING, AND USER INTERFACE.

METAL POWDERS
POWDER CHARACTERIZATION, POWDER HANDLING, AND SAFETY

METAL ADDITIVE MANUFACTURING - 2
PROCESS PARAMETERS, PART ANALYSYS AND QUALIFICATION.

BUSINESS AND INDUSTRIAL CASES
INDUSTRIAL APPLICATIONS - BIOMEDICAL, AERO-SPACE, AUTOMOTIVE, TOOLING.

SHORT COURSE DATE:

OCTOBER 14, 2025 – PURDUE UNIVERSITY **(WEST LAFAYETTE, IN)**

REGISTRATION FEE: $995

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