



SHORT COURSE

# Additive Manufacturing Fundamentals

Offered by Stellenbosch University (Stellenbosch Technology Centre – Laboratory for Advanced Manufacturing)

## Objectives and outcomes

- To correctly identify and understand the different Additive Manufacturing technologies and know the various types of materials that can be utilised in different Additive Manufacturing technologies
- To understand the health and safety risks and requirements associated with various Additive Manufacturing technologies
- To understand the generic Additive Manufacturing Process Chain
- Learning to use additive manufacturing software's
- To understand conformal cooling and other Additive Manufacturing tooling applications
- Learn about Additive Manufacturing design constraints, part consolidation, and topology optimisation
- To be able to develop and produce a simple prototype using reverse engineering and 3D printing applications and understand different post processing operations required
- To know what a hybrid part is and the benefits and drawbacks of hybrid parts
- To understand the future of Additive Manufacturing and the various effects



## PRESENTERS

Dr Devon Hagedorn-Hansen  
Mr Xola Madyibi  
Prof Natasha Sacks



## MINIMUM ADMISSION REQUIREMENTS

Grade 12/Matric Certificate



## PRESENTATION MODE

Classroom using lectures via Power Point + course notes + practical work.  
The presentation language is English.



## DATES

17-19 July 2023



## ASSESSMENT

No formal assessment – candidates will be doing tutorials and practical tasks and receive a Certificate of Attendance.



## TARGET AUDIENCE:

Students, Industry professionals, Engineers; semi-skilled workforce.



## FEES 2023: R25 000

NQF Level 6



## REGISTRATION

To register, or for more information, please visit: [Additive Manufacturing Fundamentals](#).



## CONTACT

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