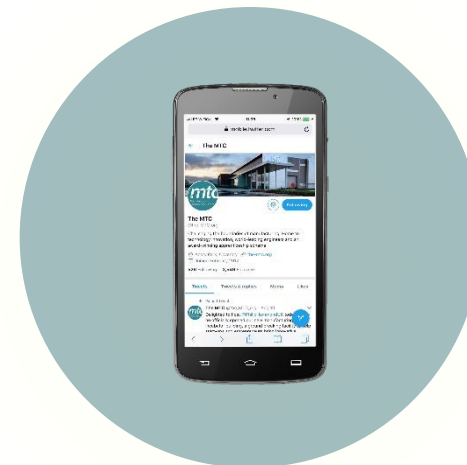


SAM: Design for Polymer AM

CU66

Welcome



Introductions

Attendees

Please tell us your...

- Name
- Role in your company
- Experience with Additive Manufacturing
- Course expectations

Introductions

Presenters



Llyr Jones



Stuart Watt



Miguel Vicente



Farhan Khan

Course Objective

This course will provide you with the necessary skills and knowledge to be able to exploit the design freedom of polymer Additive Manufacturing and take a design from conception through to AM processing.



Course Content

Session 1 - 5 th of July, 2021	Session 3 - 12 th of July 2021	Session 5 - 19 th of July, 2021
<ul style="list-style-type: none"> 1. Welcome & Introductions 2. Intro Quiz 3. Intro to Polymer Processes 4. Process Selection Exercise 5. Part Downselection 6. Downselection Exercise 7. Day 1 Quiz & Summary 	<ul style="list-style-type: none"> 16. Day 2 Recap 17. Cellular Structures: Lattices 18. Customisation 19. Compliant Mechanisms & Metamaterials 20. AM Process Simulation 21. Build Prep Demo 22. Design for Post-Processing 23. Support Removal 24. DfPP Exercise 25. Day 3 Quiz & Summary 	<ul style="list-style-type: none"> 31. Day 4 Recap 32. Materials 33. AM Cost & Sustainability 34. AM Cost Exercise 35. Design Exercise 36. Day 5 Quiz & Summary
Session 2 - 7 th of July, 2021	Session 4 - 14 th of July, 2021	Session 6 - 22 nd of July, 2021
<ul style="list-style-type: none"> 8. Day 1 Recap 9. Workflow Overview 10. DfAM Mindset: Design Thinking 11. DfAM Mindset Exercise 12. Generative Design & Top Op 13. Generative Design & Top Op: DEMO 14. Polymer AM Shop Floor Overview 15. Day 2 Quiz & Summary 	<ul style="list-style-type: none"> 26. Day 3 Recap 27. Reverse Engineering 28. Design for Manufacturing 29. Design Buildability Exercise 30. Day 4 Quiz & Summary 	<ul style="list-style-type: none"> 37. Day 5 Recap 38. Design Exercise Evaluation 39. Documentation 40. AM Future 41. Day 6 Quiz & Summary 42. Course Survey 43. Course Test 44. Course Summary