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Summary

AM Printing process



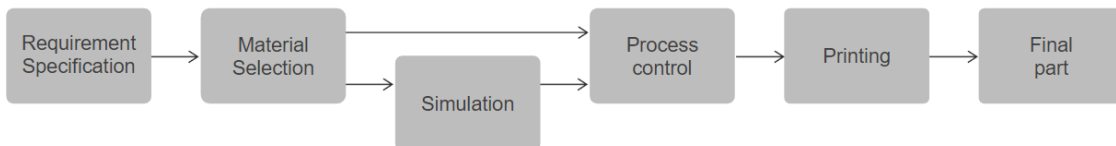
Course Content

The online course provides an overview of the Additive Manufacturing Printing Process.



AM Printing Process

AM PRINTING PROCESS



Short Description

This page provides an overview of the AM Printing Process. It starts directly after the digital files are designed and ends when the final part has been printed.



AM Printing Process Steps

Requirement specification

Detailing the desired properties and qualities of the component to be printed. This includes considerations such as strength, resistance to external factors like corrosion and heat.

Material selection

Taking into account the application requirements and availability of suitable materials. Common options include plastics and metals.

Simulation

Can be employed to identify and rectify potential printing errors before production, saving time and costs, particularly with expensive materials like metals.

Notes



AM Printing Process Steps

Process control

Is crucial to ensure consistent quality and efficiency throughout the printing process. This involves managing variables such as printing speed, material properties, and environmental conditions.

Printing

The actual printing stage involves layer-by-layer construction of the component according to a digital model, applying the predetermined process control parameters.

Final part

Once the printing is completed, the part is removed from the 3D printer. If support material was used during printing, post-processing is required to remove it. In some cases, the final parts undergo physical testing for certification purposes.

Notes



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