

Life long learning in DESIGN AND MANUFACTURING SKILLS

DESIGN FOR MANUFACTURING TECHNIQUES

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Principle

Manufacturability is one of the key aspects of the design. Designs should not only fulfil functionality but also they must meet lead time, cost and yield requirements. This becomes more and more important in today's competitive global business environment. Companies and design teams could meet their targets only by considering DfM principles at an early stage. This requires manufacturing techniques knowledge, including capabilities, limitations and design rules.



Advantages

• Improved Design Expertise: DfM enhances the skills of design engineers and teams by emphasizing the importance of materials knowledge, manufacturing techniques, and surface treatments, ultimately fostering better-designed products.

• Enhanced Supplier Communication: With a deeper understanding of manufacturing techniques, design teams can communicate more effectively with suppliers, leading to higher-quality interactions not only for production but also for clarifying requirements and ensuring qualification standards are met.

• Priority on Availability: Recognizing the critical role of suppliers, particularly for companies like ASML, DfM principles prioritize supplier availability, ensuring a steady flow of essential components and materials for efficient production processes.

Production constraints and limits

• Limited Capacity: The course may have a maximum participant capacity per session, restricting enrollment opportunities.

• Time Constraints: The course's six-day duration and weekly scheduling may be challenging for participants with limited availability due to work or other commitments

Cost

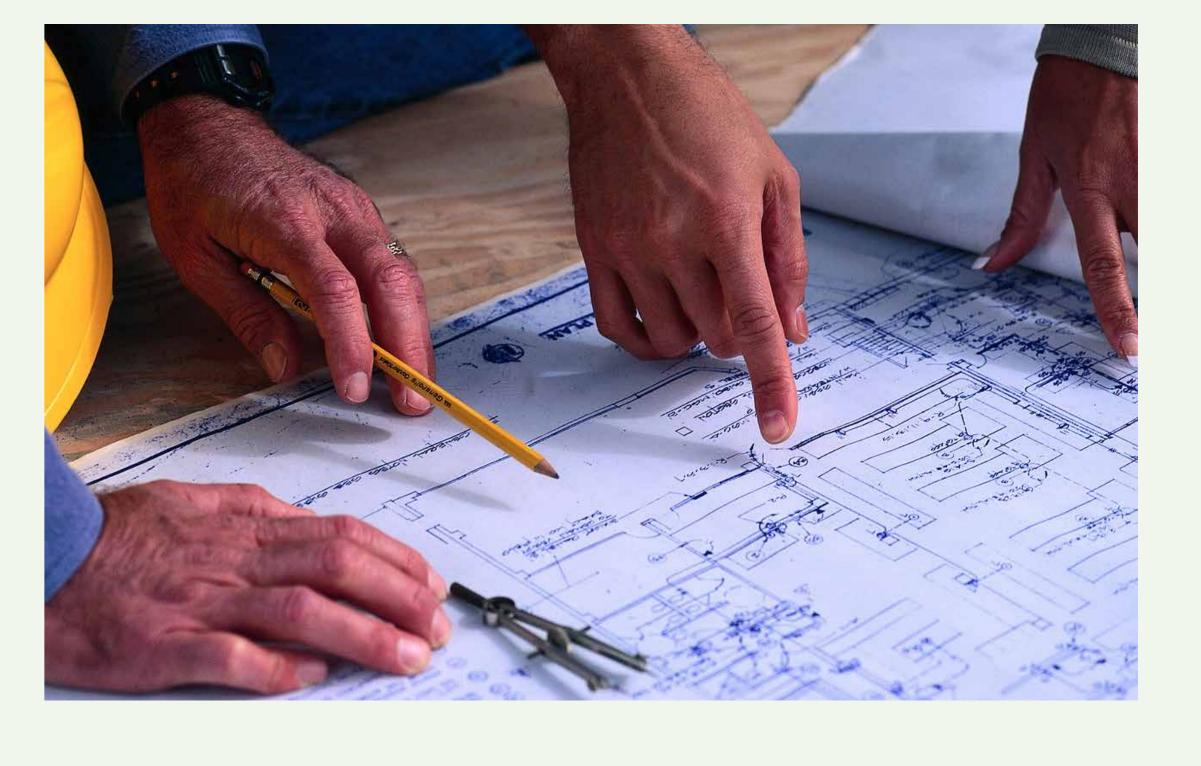
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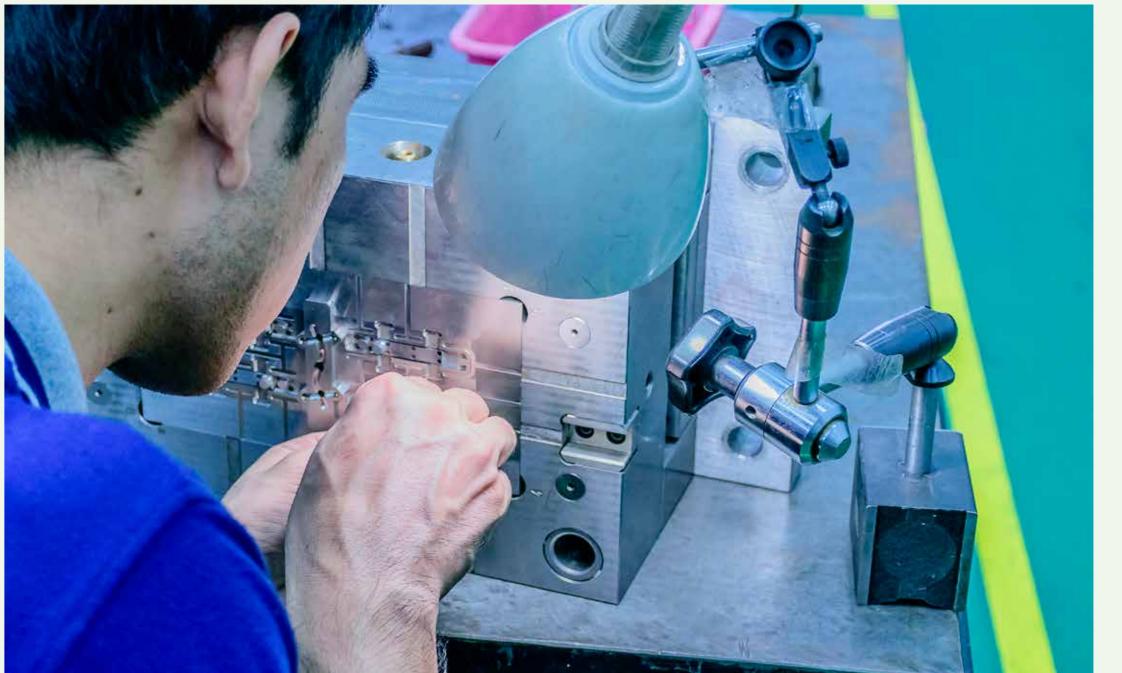


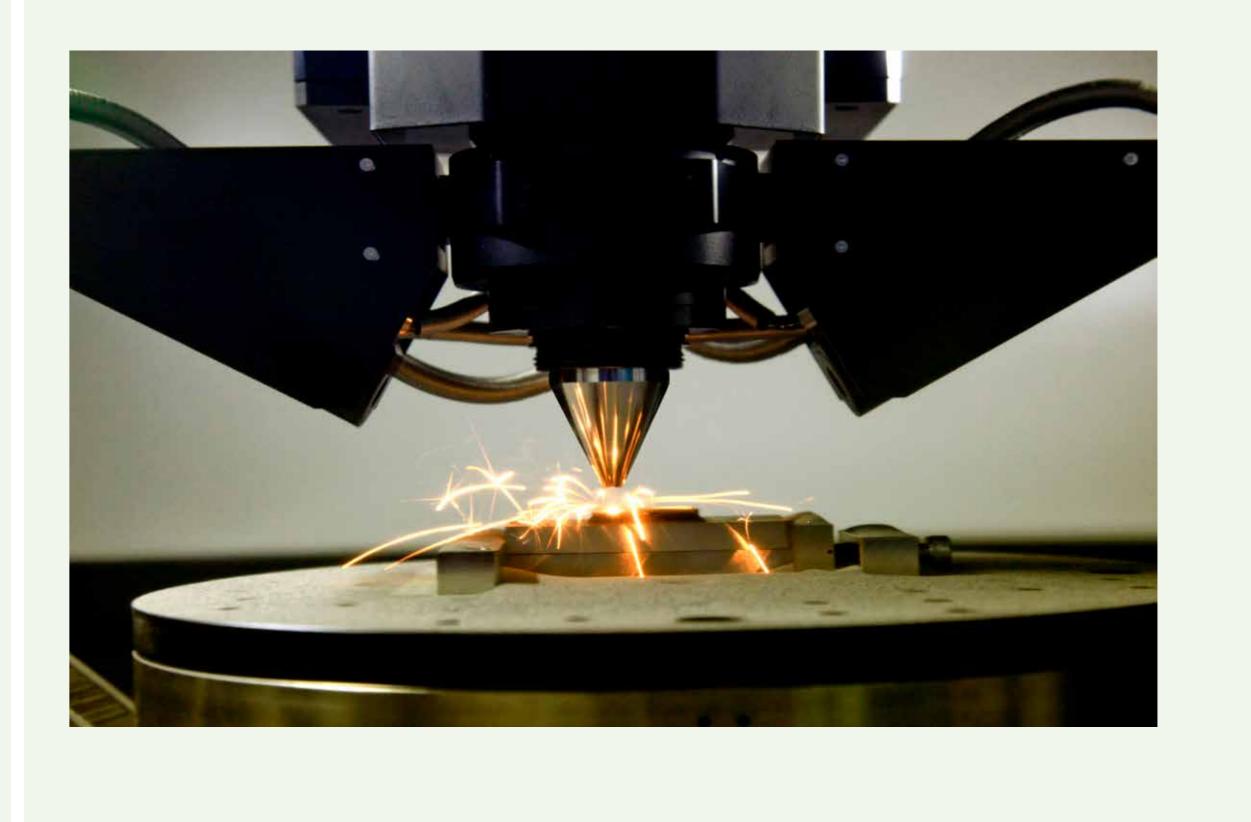
Disadvantages

As one of the principles emphasizes early supplier involvement, this could pose a challenge if the company's procurement practices prioritize maintaining competitiveness among suppliers, potentially hindering effective collaboration with suppliers in the early stages of design.

Examples







www.kscevents.nl

• www.mikrocentrum.nl