

8 Essentials of Designing for Manufacturability

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This week on Voices in Validation we will be covering the essentials of designing for manufacturability.

Roberta Goode provides an overview of the details necessary in DFM, breaking it down to an 8-step process including:

- Why is Designing for Manufacturability important for medical device manufacturers?
- Does standardization of materials help shorten the product development cycle?
- What's the next step after determining the practical part count?
- What is Poka-Yoke?
- and points to be considered when scaling up manufacturing.

SHOWNOTE LINKS

1. DFMA References
2. Assembly Automation and Product Design
3. G. Boothroyd, Marcell Dekker, Inc. 1992
4. Product Design for Manufacture and Assembly
5. G. Boothroyd and P. Dewhurst, G. Boothroyd Dewhurst, Inc. 1989
6. Marcell Dekker, Inc. 1994
7. Design and Analysis of Manufacturing Systems
8. Prof. Rajan Suri University of Wisconsin 1995
9. Product Design for Assembly: The Methodology Applied
10. G. Lewis and H. Connelly
11. Simultaneous Engineering Study of Phase II Injector Assembly Line
12. Giddings & Lewis 1997
13. Design for Manufacturing Society of Manufacturing Engineers,
14. (VIDEO)
15. Introduction to Design for (Cost Effective) Assembly and Manufacturing David
16. Steinstra, Rose-Hulman, 2015
17. [IVT's Medical Device Handbook](#):

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