

Unlock the Power of Model-Based Definition (MBD)

Future-Proof Your Operations | Stay Competitive | Meet Industry Demands

MBD ensures your team can efficiently interpret, manufacture, inspect, and communicate using rich 3D model data. The Defense Industrial Base (DIB) is rapidly moving towards adoption of MBD as the defense sector moves away from traditional 2D drawings.

Why It Matters to You:

- **Win & Keep Defense Contracts** – Meet MIL-STD-31000 and Defense Industry digital-data requirements, positioning your shop as an MBD-ready partner that primes and OEMs actively seek.
- **Cut Cost, Lead Time, and Rework** – A single, fully annotated 3D model eliminates drawing misinterpretation, slashes NCRs, and boosts first-pass yield.
- **Unlock Automation & Capacity** – Direct-to-machine data and closed-loop inspection streamline design, manufacturing, and QC, freeing up resources for more work.
- **Future-Proof Your Workforce** – Equip engineers, machinists, and inspectors with the digital skills demanded by Industry 4.0 and keep your operation competitive for years to come.



What We Offer: Awareness Training + Tailored Pathways

We start with a comprehensive **Awareness-Level Training** to introduce MBD and its role in digital transformation. From there, participants can explore focused learning **Pathways** designed by role:

- **Digital Design and Costing**
- **Digital Manufacturing**
- **Digital Quality Assurance and Inspection**

Each pathway prepares your team to confidently use Product Manufacturing Information (PMI), 3D models, and digital workflows.

Please contact Brett Ferrence bference@vmec.org or Chris Coulter ccoulter@vmec.org at VMEC

to see if you qualify. There is no formal application process.

How it Works

Step 1 Awareness and Digital Thread Overview

One full day awareness course to introduce MBD to all levels of the organization. VMEC advisor will attend.

Step 2 MBD Assessment

An MBD assessment of your operation will identify the best technology to suit needs and validate options. This will be conducted on site or virtual

Step 3 Pathway training

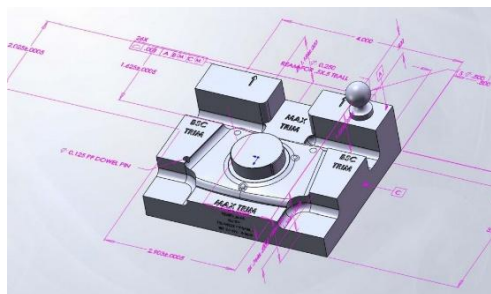
Two-to-three-day training in Hartford, CT in your chosen pathway. A VMEC advisor will attend.

Step 4 Create Implementation proposal

Document the steps necessary to implement MBD for your operation. Create ROI and cost benefit analysis for any purchases or implementation infrastructure. VMEC advisor and CCAT personnel will assist.

Step 5 Share what you learned

The selected manufacturer must agree to participate in project recap, case studies or interviews by NERDIC Sponsors (including but not limited to photos, videos and written case studies) related to the project. You must be willing to share your feedback and implementation plans. in documentation Participate in annual NIST MEP Survey.



Costs:

All training is provided free of charge. Travel costs for training in Hartford, CT. at the CCAT Digital Thread Training Lab will be reimbursed by NERDIC.

The program does not cover the costs of software or capital expenditure.

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