



Best Manufacturing Practices Center of Excellence

SBIR Programs

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MANTECH/BMPCOE

- MANTECH
 - Strengthens the U.S. industrial base by further broadening the reach of BMP's core competencies throughout government, industry, and academia
 - Focal point for developing, promoting and implementing policies that ensure a strong technologically superior defense industrial base
 - Sound link to industry and academia to improve manufacturing practices and train students
- The BMP Center of Excellence (BMPCOE)
 - Established in 1993 to foster Best Practices collection and implementation
 - Consequently, we have strong systems engineering, risk management, and production strengths
 - One of nine ONR Centers of Excellence under Manufacturing Technology (MANTECH) Program
 - Partnership among Dept of Commerce, University of Maryland and Office of Naval Research
 - Located on Campus at University of Maryland

BMP Core Competencies

- Best Practices Surveys - conducted to identify, validate, and document best practices, and encourage government, industry, and academia to share information and implement the practices
- Systems Engineering - facilitated by the Program Manager's WorkStation (PMWS), a suite of electronic tools that provide risk management, engineering support, and failure analysis through integrated problem solving (latest version and tutorial available at www.bmpcoe.org)
- Web Technologies - offered through the Collaborative Work Environment (CWE) to provide users with an integrated digital environment to access and process a common set of documents in a geographically dispersed environment
- Risk Management – Through TRIMS we conduct detailed process oriented risk assessments
- Production Support – support design reviews, design efforts for producibility (a design term), and production lines

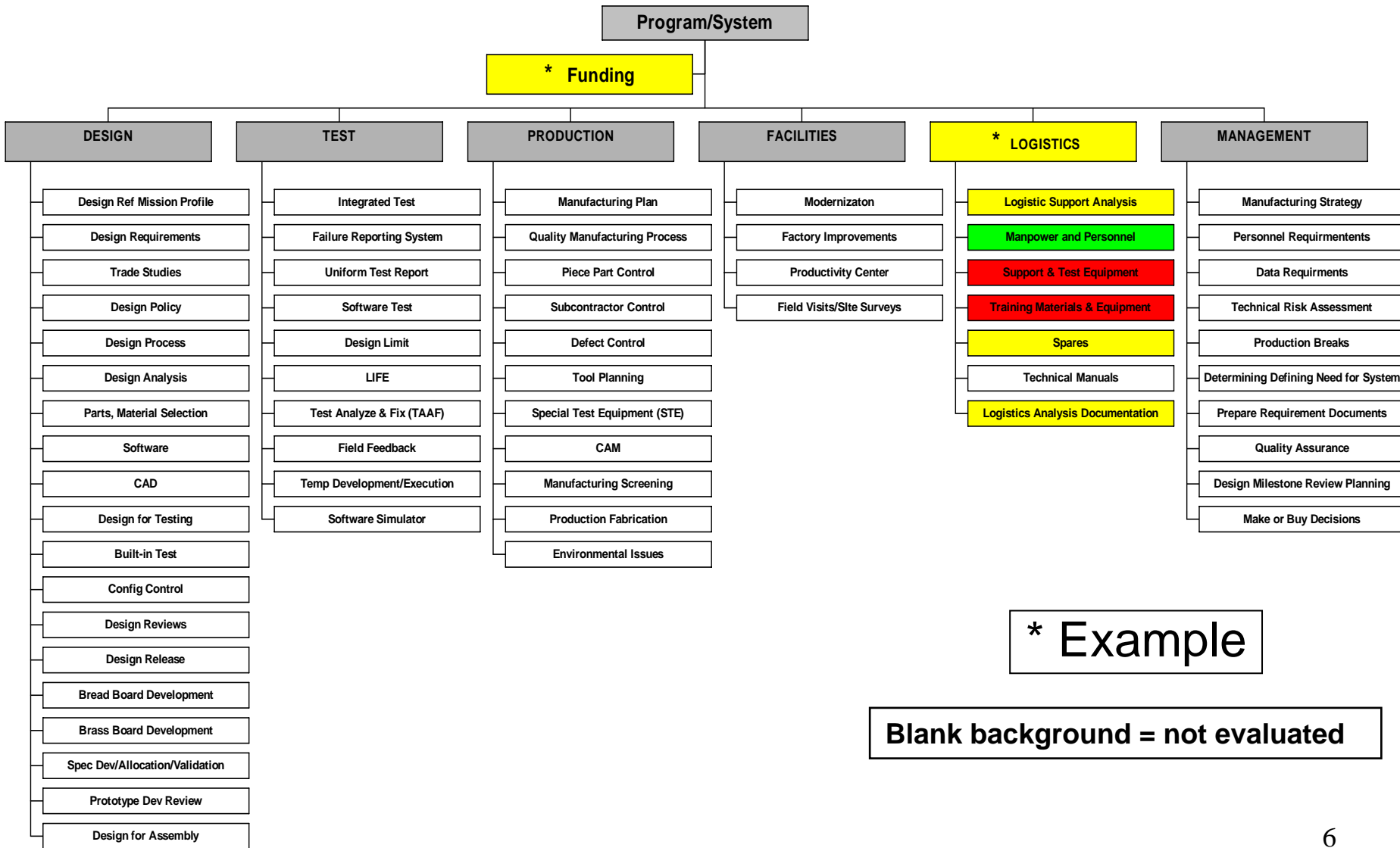
Red Teams

“We’re here to help!” – sure
“We’re happy to see you!” – right

- We are not a government auditor
- BMP Red Teams assess risks to manufacturability:
 - Documents Review
 - Personal Interviews
 - Systems Hardware/Software
 - Overlay Analysis with BMP Systems Engineering Model
 - Baseline Risk Assessment
 - Contractor Review Process
 - Producibility Analysis
 - Risk Mitigation
 - Monitoring

We really are here to help!

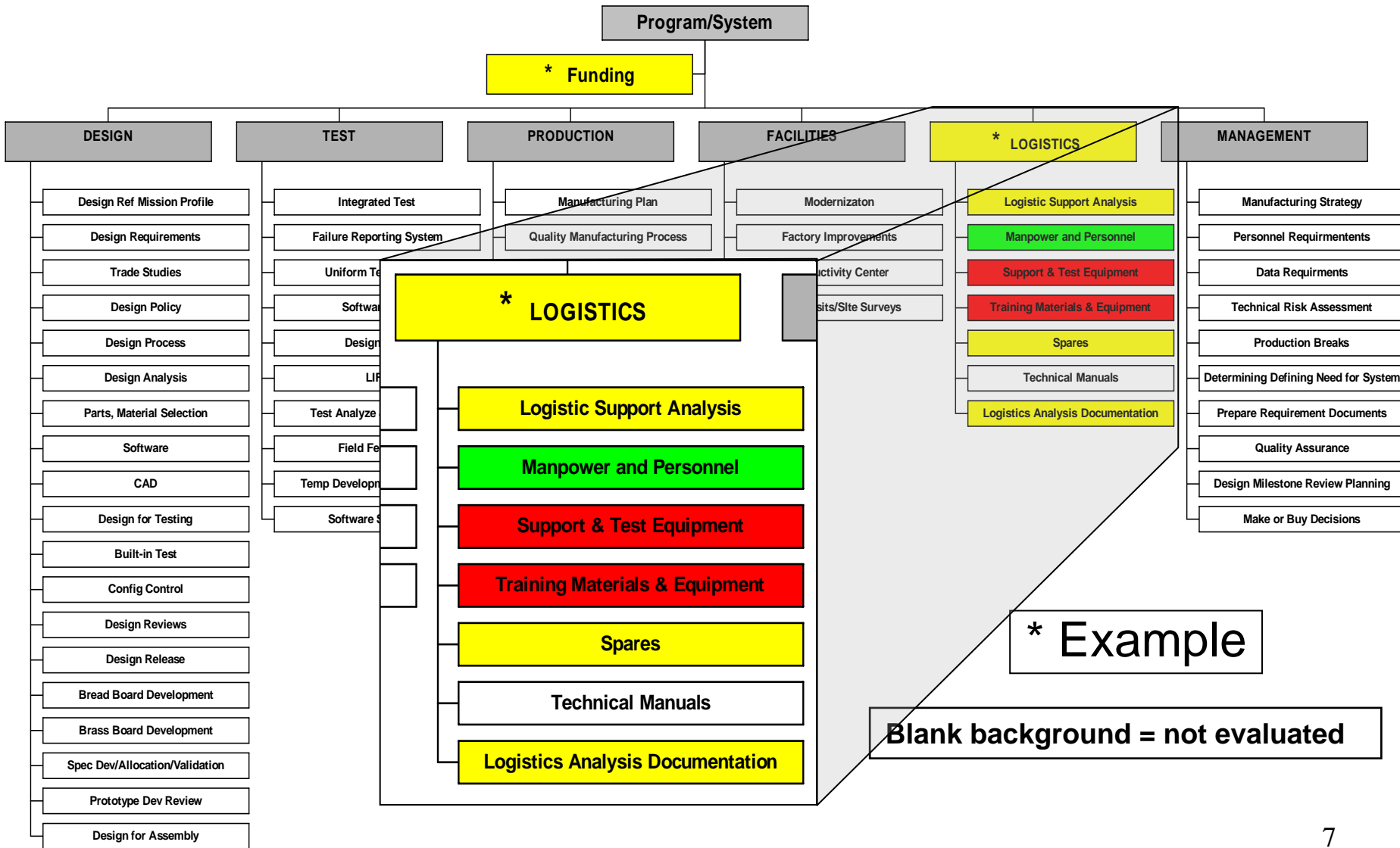
TRIMS Systems Engineering Knowledge Base Template



* Example

Blank background = not evaluated

TRIMS Systems Engineering Knowledge Base Template



BMPCOE SBIR Assistance

- Supporting ONR's SBIR Office
 - Initial Risk Assessment and Product Maturity Review – scaled down Red Team process focused on Small Business risk reduction
 - Completely funded by ONR
 - Initial phone calls/site visits
 - Govt reps (TPOC, Requirements and Resource Sponsors)
 - Specifically tailored team of 3 or 4 BMPCOE engineers conduct SBIR company site visit to assess risk to manufacturability
 - Follow-up as necessary
- BMPCOE Report to ONR – ONR may share some or all of team report with SBIR company
 - Product Description
 - Company Description
 - Risks
 - Programmatics (contract value, spending history, current status)
 - Observations
 - Conclusions – issues preventing forward progress
 - Recommended Way Ahead
- Assistance as desired by SBIR company as approved by ONR

Point of Contact

BMPCOE

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