Compare ANSI-748 with PMBOK® Guide for Consistency with DoDI 5000.02, Operation of the Defense Acquisition System, (applicable to Engineering and Manufacturing Development (EMD) Phase)			
Term	**DoDI 5000.02**	**ANSI-748**	**PMBOK® Guide**
Product	Develop, build, and test a ***product*** to verify that all operational and derived requirements have been met	Plan all ***work*** scope for the program to completion. (Silent on ***product***)	***Product scope description*** documents the ***characteristics of the product that the project will be undertaken to create.*** (4.1.1.1)
Product baseline	Establishment of the initial ***product*** baseline for all configuration items.	(Silent on ***product***)	Requirements baseline; unambiguous (**measurable and testable**), traceable, complete, consistent, and acceptable to key stakeholders. Components include: • Functional requirements • Nonfunctional requirements • Quality requirements • Acceptance criteria (5.2.3.1)
Validated requirements	System meets validated capability requirements	(Silent on ***requirements***)	Validate Scope is the process of formalizing acceptance of the completed project deliverables. (5.5)
EMD completion	System meets ***validated capability requirements*** demonstrated by developmental and initial operational testing as required in the Test and Evaluation Master Plan	(Silent on ***requirements***)	Completion of the product scope is measured against the ***product requirements*** (5.2)

Compare ANSI-748 with PMBOK® Guide for Consistency with DoDI 5000.02, Operation of the Defense Acquisition System, (applicable to Engineering and Manufacturing Development (EMD) Phase)			
Systems Engineering (SE)	Program Managers will prepare a **SE Plan** (SEP)	(Silent on SE)	(Silent on SE)
Requirements traceability	(The following guidance is from the **SEP Guide,** dated 1/23/15, not DoDI 5000.02): Explain the traceability between the system's technical requirements and WBS.	(Silent on technical (product) requirements)	Requirements Traceability Matrix (RTM): Grid that links product requirements from their origin to the deliverables that satisfy them. It provides a means to track requirements throughout the project life cycle, helping to ensure that requirements approved in the requirements documentation are delivered at the end of the project. Includes tracing requirements for: **Project scope/WBS objectives** **Product design** **Product development** **Test strategy and test scenarios** **High-level requirements to more detailed requirements** Attributes associated with each requirement can be recorded in the RTM. Typical attributes used in the RTM may include current status (such as active, cancelled deferred, added, approved, completed), and acceptance criteria. (5.2.3.2)

Compare ANSI-748 with PMBOK® Guide for Consistency with DoDI 5000.02, Operation of the Defense Acquisition System, (applicable to Engineering and Manufacturing Development (EMD) Phase)			
Technical work scope in Performance Measurement Baseline (PMB)	Integrate **technical work scope**, cost, and schedule objectives into a single cohesive contract baseline plan called a PMB	Integrate **program work scope,** schedule, and cost objectives into a PMB (silent on technical work scope)	**In the project context, the term scope can refer to:** • **Product scope. The features and functions that characterize a product, service, or result; and/or** • Project scope. The work performed to deliver a product, service, or result with the specified features and functions. (5) Completion of the product scope is measured against the **product requirements** (5.6)
Technical performance measures (TPM)	**Use TPMs** and metrics to assess program progress.	Identify physical products, milestones, technical performance goals, **or** other indicators. (TPMs optional)	Work performance data can **include** planned vs. actual **technical performance** (8.3.1.4) (TPMs optional)
TPM	Use TPMs and metrics to assess program progress.	Earned value is a direct measurement of the **quantity** of work accomplished. The **quality** and technical content of work performed is controlled by other processes. (**Quality is excluded**)	Same as above
Risk Management	Implement…risk management and tracking.	(Silent on risk management)	Conduct risk management planning, identification, analysis and response planning. Control risk. (11)

Summary of Deficiencies in ANSI-748 compared with PMBOK® Guide:

- Silent on "product" and "product baseline"

- Silent on technical or capability "requirements"
- Silent on "requirements traceability" to WBS
- Cites "program work scope" instead of "technical work scope" or "product scope"
- Silent on "risk management"

Paul Solomon www.pb-ev.com 7/5/15