

# **Unlocking the Blueprint for Materiel Management: Delving into the Army Regulation AR 700-142**

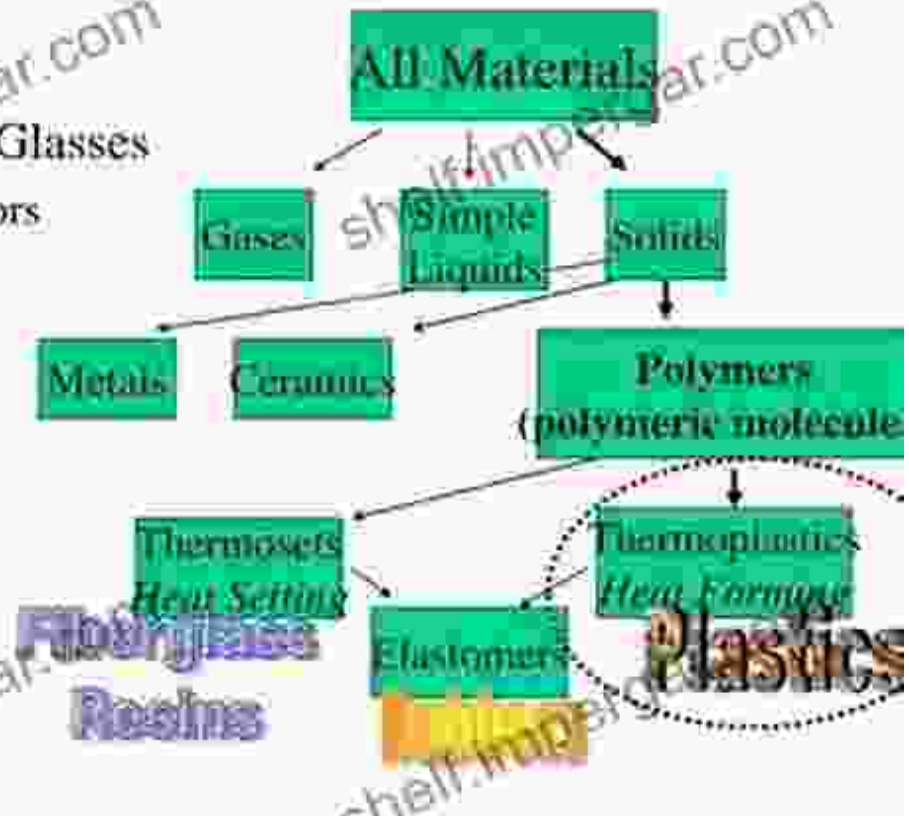
In the complex landscape of modern warfare, efficient and reliable materiel management is paramount for military success. The U.S. Army has developed Army Regulation (AR) 700-142, a comprehensive blueprint that outlines the processes and procedures for type classification, materiel release, fielding, and distribution of materiel. This in-depth article delves into the intricacies of AR 700-142, providing a practical guide for personnel involved in materiel management operations.

## **Chapter 1: Type Classification**

# Types of Materials

- Materials

- Metals
- Ceramics and Glasses
- Semiconductors
- Polymers
  - Composites



## Army Regulation AR 700-142 Type Classification, Materiel Release, Fielding, and Transfer June 2024

by United States Government US Army

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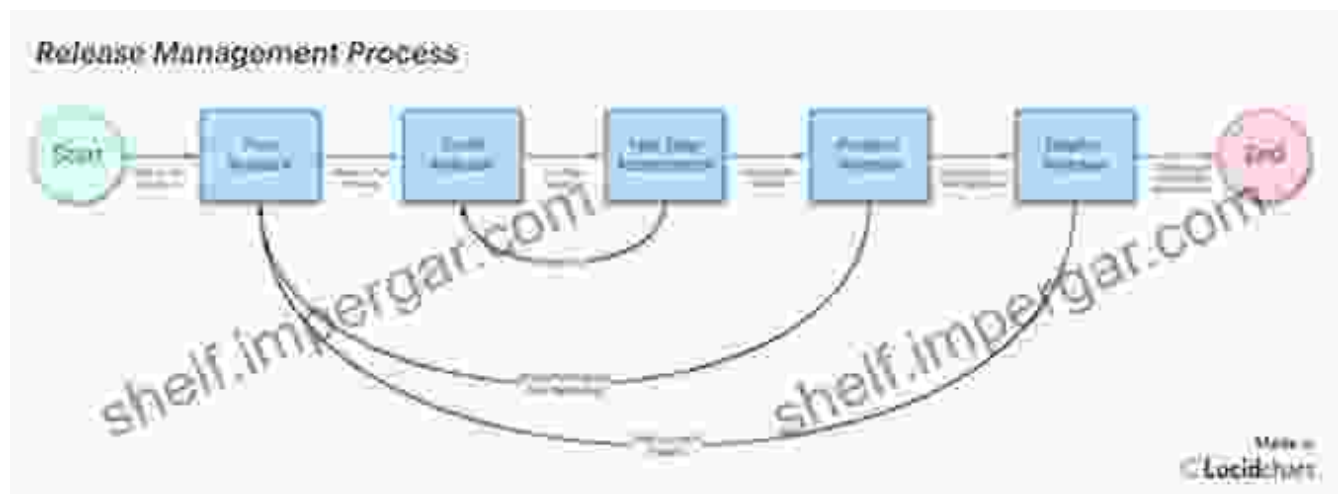
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The foundation of materiel management lies in type classification. AR 700-142 establishes a standardized system for classifying materiel based on its characteristics, intended use, and operational requirements. The regulation defines five primary materiel types:

\* **Major End Items (MEI):** Complex systems composed of multiple components, such as tanks and aircraft. \* **Subassemblies:** Components that are not complete systems themselves but are integral to the operation of MEIs, such as engines and transmissions. \* **Components:** Individual parts that are used to assemble and repair MEIs and subassemblies, such as bolts and wires. \* **Expendable Supplies:** Items that are consumed during use, such as ammunition and fuel. \* **Repair Parts:** Components or assemblies used to repair failed or damaged equipment.

## Chapter 2: Materiel Release



Materiel release is the formal process of authorizing the distribution and use of new or modified materiel. AR 700-142 establishes a rigorous approval chain that ensures that materiel meets all required standards and

specifications before being released to the field. The regulation outlines the following steps in the materiel release process:

\* **Materiel Acquisition:** Materiel is acquired through procurement, development, or modification. \* **Test and Evaluation:** Materiel undergoes rigorous testing and evaluation to verify its performance and reliability. \* **Technical Data Package (TDP):** A comprehensive set of technical documents that describe the materiel's design, specifications, and maintenance requirements is prepared. \* **Materiel Release Decision:** The Army Commander or designated representative reviews the TDP and supporting documentation and makes the final decision to release the materiel. \* **Materiel Release Free Download:** Upon materiel release approval, a formal Free Download is issued to authorize distribution and use.

### **Chapter 3: Fielding**

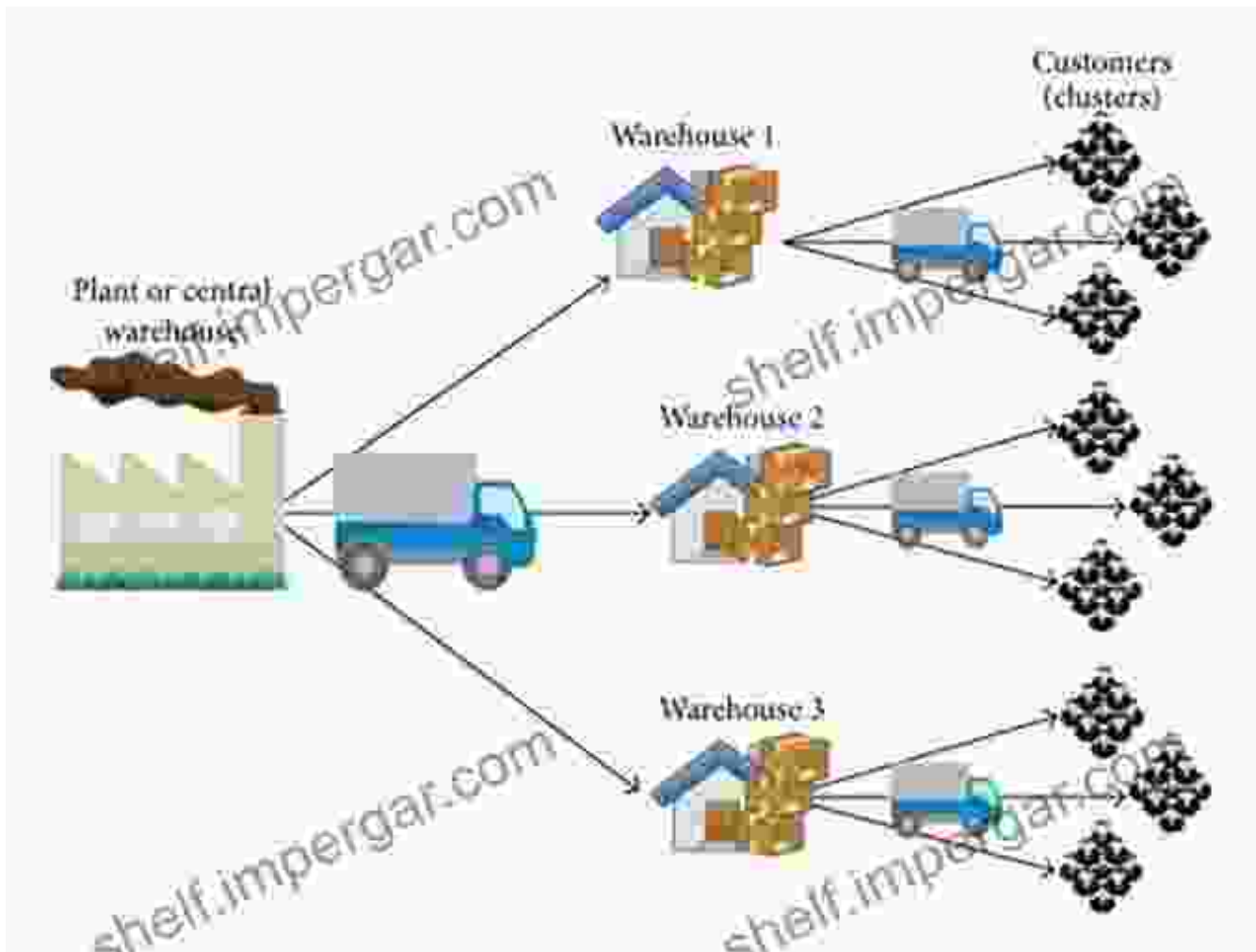


Fielding is the process of distributing materiel to units in the field. AR 700-142 provides guidance on the following aspects of fielding:

- \* **Distribution Planning:** The Army develops a distribution plan that specifies the units to receive the materiel, the quantities required, and the estimated delivery dates.
- \* **Transportation:** Materiel is transported by various means, including trucks, rail, and air, to the receiving units.
- \*

**Acceptance and Inspection:** Units inspect the material upon receipt to ensure that it meets specifications and is in good condition. \* **Training:** Personnel receive training on the operation and maintenance of new or modified material.

## Chapter 4: Distribution



Distribution is the ongoing process of managing the flow of material throughout the Army. AR 700-142 outlines the following distribution procedures:

\* **Inventory Management:** The Army maintains an inventory of all materiel on hand at various locations. \* **ReFree Downloading:** Units submit requisitions for materiel when inventory levels fall below established thresholds. \* **Warehouse Management:** Materiel is stored in warehouses and distributed to units as needed. \* **Transportation:** Materiel is transported to units using various distribution channels.

AR 700-142 is an essential reference for personnel involved in materiel management operations. By providing comprehensive guidance on type classification, materiel release, fielding, and distribution, the regulation ensures that materiel is acquired, tested, and delivered to units in a timely and efficient manner. As the Army continues to modernize and adapt to evolving threats, AR 700-142 will remain a valuable resource for maintaining a robust and responsive materiel management system.



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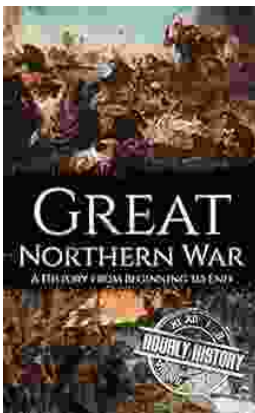
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