

## **CHAPTER 9**

### **AIRCRAFT ORDNANCE**

As an Airman, you might be assigned to the armament branch of an aircraft squadron, the weapons department of a naval air station, or an aircraft carrier. Regardless of where you are assigned, you will work around aircraft armament systems and various associated weapons. Aviation Ordnancemen (AOs) handle aircraft ordnance. They work with aircraft guns and pyrotechnics. They also maintain bombs, rockets, missiles, mines, and torpedoes. They maintain the aircraft weapons releasing and launching equipment necessary for disbursing such items. AOs are familiar with the safety precautions for working with such material. Personnel directly involved in ordnance handling must be qualified and/or certified according to the Navy's current qualification/certification program. You may not be assigned in an area that requires direct contact with ordnance. You must still be familiar with the basic characteristics of ordnance and hazards peculiar to aircraft ordnance.

#### **LEARNING OBJECTIVES**

When you have completed this chapter, you will be able to do the following:

1. Describe common terms and definitions associated with aircraft ordnance.
2. State the method for identification and marking of ammunition.
3. Explain the purpose and types of aircraft bombs.
4. Identify the types, uses, and basic characteristics of air-launched guided missiles and guided missile launchers.
5. Identify the components of the M61A1 and M61A2 automatic gun and recognize the operating principles.
6. Define the purpose and use of hand-manipulated signaling devices.
7. Describe the types, uses, and basic characteristics of cartridges and cartridge-activated devices.
8. Identify the purpose and use of bomb racks.

#### **TERMINOLOGY**

AOs use special terminology on the job. To understand this chapter, you should know these terms. A few of the more common terms and definitions are as follows:

##### **Ordnance**

Military material (such as combat weapons of all kinds) with ammunition and equipment required for its use. Ordnance includes everything that makes up a ship's or aircraft's armament. This includes guns, ammunition, and all equipment needed to control, operate, and support the weapons.

##### **Propellant**

The material that provides the energy for propelling a projectile, specifically an explosive charge for propelling a bullet, shell, or the like. It may also be a fuel, either solid or liquid, for propelling a rocket or missile.

# Aviation Ordnance Study Guide

**SJ Ball**



## **Aviation Ordnance Study Guide:**

**Naval Training Bulletin** ,1965      **Monthly Catalogue, United States Public Documents** ,1985      *Monthly Catalog of United States Government Publications* United States. Superintendent of Documents,1985 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index      Readers' Guide to Periodical Literature ,1922 An author subject index to selected general interest periodicals of reference value in libraries      **Naval Training Bulletin** ,1961      A Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education,1944      **Guide to the Evaluation of Educational Experiences in the Armed Services** ,1994      **A Guide to the Sources of United States Military History** Robin Higham,Donald J. Mrozek,1998      **The Used Book Price Guide** ,1963      *Army-navy Guide* Virginia French,Rosejeanne Slifer,1942      The 1982 Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education,1982      **The 2004 Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education Staff,2004-10-27      *Army-Navy-Air Force Register and Defense Times* ,1926      **The National Union Catalog** Library of Congress,1953 Constitutes the quinquennial cumulation of the National union catalog Motion pictures and filmstrips      **CIS Index to U.S. Executive Branch Documents, 1910-1932** ,2001      **CIS Index to U.S. Executive Branch Documents, 1910-1932** Congressional Information Service,2001      **Guide to the Scholarly Resources Microfiche Edition of the United States Naval Administrative Histories of World War II.** ,1991 Reproduces 175 numbered histories bound in approximately 300 volumes which provide insight into the administration of the naval establishment and the roles it played in contributing to victory during World War II      **Reader's Guide to Periodical Literature Supplement** ,1919 These vols contain the same material as the early vols of Social sciences humanities index      **Western Aviation, Missiles, and Space** ,1963  
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