



Aviation Ni-Cd BMB online - Battery Maintenance Basics online Live remote with trainer

Online training for operation & maintenance

The Saft Battery Maintenance Basics (BMB) online has been developed by our experts to give the opportunity to operators to follow an initial training remotely. This is a shorter version of the 2 days training BMT proposed at the factory. The goal is to operate aircraft safely on a daily basis without incurring maintenance related flight delays or cancellations.



▶ OBJECTIVES

- To acquire the minimum autonomy in the maintenance and repair operations
- To learn fundamentals on the maintenance of Saft Ni-Cd batteries
- To be able to identify the circumstances that require Saft assistance (return for repair and/or expertise request)

▶ AUDIENCE & APPLICATIONS

- No prerequisite
- Saft's aviation customers and partners
- Airlines, MRO's, operators, technicians

▶ BENEFITS

MASTER

- Effective and efficient program designed in collaboration with Saft training experts.
- Basic program to maximize operational battery performance safely.

LEARN

- Training covers specifics high-end knowledge and basics theory.
- Fast, efficient and cost-effective program.

SHARE

- Take advantage of our expert know-how from any place
- Training via videoconference

▶ QUALIFICATION

- Training concludes with a "Certificate of Completion" following a final test (70% score) that reflects the knowledge level of the attendees.

▶ GENERAL INFORMATION & PRICES

- For more information, visit our website: <https://www.saftbatteries.com/market-sectors/aerospace-defense/aviation#!services-and-training>
- For pricing and registration, it's online at: <https://saft4u.saftbatteries.com/>
- Any question, contact aircraft@saftbatteries.com
- Compatible with all browsers

▶ DURATION

- 1 day

▶ LANGUAGE

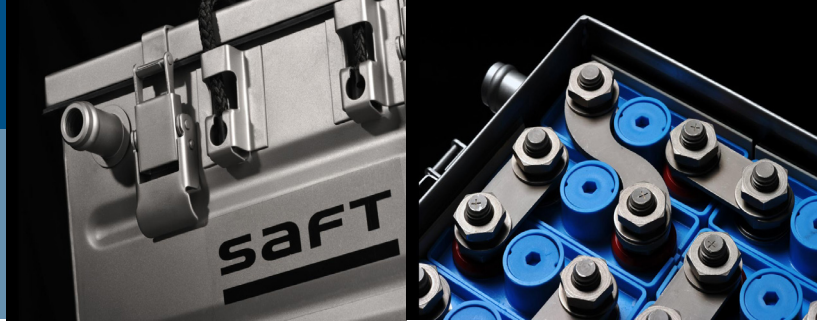
- English

Professional profiles

- ENGINEERING**
- INSTALLATION**
- OPERATION**
- MAINTENANCE**



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E-LEARNING PLATFORM SOLUTION

All Saft trainings are available on a dedicated Customer Portal, Saft4U, that allows you to register online. It will permit you to access your training profile, status and download your certificate.

The collage displays several screenshots from the SAFT e-learning platform:

- Chapter 1: Theory for a Ni-Cd battery**: Includes a section on 'Cell ratings' with a graph titled 'Influence of discharge rate 1C/A and 10C/A'. The graph plots Voltage (V) on the y-axis (12 to 28) against Capacity (nC/Ah) on the x-axis (0 to 120). Two curves are shown: a solid green line for 'Battery 20VHP43Ah (43Ah), Temp: 23°C, Rate 10C/A (1C/A = 43A)' and a dashed green line for 'Battery 20VHP43Ah (43Ah), Temp: 23°C, Rate 1C/A (1C/A = 43A)'. A legend indicates 'C = capacity; 1C = at full capacity; 0.1C = 1/10th of the capacity'.
- Chapter 2: Basic electrochemistry**: Features an illustration of 'CHARGE and DISCHARGE' processes. It shows two diagrams of a battery cell. The 'Charge' diagram shows 'Positive ions to negative electrode' and 'Negative ions to positive electrode'. The 'Discharge' diagram shows 'Positive ions to positive electrode' and 'Negative ions to negative electrode'. A note states: 'Battery charge is STORAGE of ENERGY / Battery discharge is RELEASE of ENERGY (reverse process)'.
- Chapter 4: Safety rules in battery shop**: A 'Risks' section listing 'Physical', 'Electrical', and 'Chemical' hazards with corresponding warning icons.
- Battery composition and**: A diagram of a battery unit with labels for 'Power connector', 'ID Label', 'Handling strap', 'Venting hole', and 'Temperature sensor(*)'. A note says: '(*) on some batteries located on the front side'.
- Chapter 1: Theory for a Ni-Cd battery**: A 'Battery composition and' section showing a battery unit with labels for 'Power connector', 'ID Label', 'Handling strap', 'Venting hole', and 'Temperature sensor(*)'.
- SAFT Ni-Cd Batteries for Aviation application**: A slide titled 'BMB - Battery Maintenance Basics' with a 'click here to continue...' button.

COURSE TOPIC

BMB online - Battery Maintenance Basics

- Ni-Cd battery general information
- Basic electrochemistry
- Battery designation & characteristics
- Safety rule in battery shop
- Required documents and tools
- Types of maintenance
- Diagnosis and failures
- Storage management in shop
- Saft support

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