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# Engineered Materials Arresting System (EMAS) Training

## INTRODUCTION

There have been multiple incidents where pilots have actively attempted to avoid an EMAS, unintentionally worsening the situation. This behaviour indicates a clear lack of understanding and familiarity with the system. IFALPA strongly encourages airline operators and aircraft manufacturers to enhance pilot knowledge and awareness of EMAS procedures, particularly in the event of a runway overrun.

## TRAINING

To improve understanding and awareness and maximize the safety benefits of EMAS-equipped runways as the final layer of defence in an overrun scenario, aircraft operators and manufacturers should ensure their inclusion in pilot training programs. Since current flight simulators are unable to replicate EMAS scenarios, comprehensive documentation within Operational Manuals and online training resources are essential tools for effective knowledge transfer.

Main training topics should include:

- **What is EMAS?**  
Explanation of the system's function and purpose.
- **How to identify EMAS during flight preparation?**  
Recognition of charts and visual appearance.
- **Integration into operational briefings**  
EMAS information should be discussed during both takeoff and approach briefings.
- **Visual characteristics**  
How EMAS appears before aircraft entry.

- **Proper use of EMAS in an emergency**  
Clear procedural guidance for overrun scenarios.

#### NEED FOR STANDARDIZED EMAS TRAINING

To ensure the effective use of Engineered Materials Arresting Systems (EMAS), IFALPA emphasizes the importance of comprehensive and standardized pilot training. For pilots to fully benefit from EMAS as a critical safety feature, it should be integrated into both theoretical training and operational briefings.

Further guidance is available in the [IFALPA EMAS Briefing Leaflet](#).