



Flight Safety Foundation

# ALAR

Approach-and-landing Accident Reduction

# Tool Kit

This is a self-contained product of the Flight Safety Foundation Approach-and-landing Accident Reduction (ALAR) Task Force and includes a variety of information to help prevent approach-and-landing accidents, including those involving controlled flight into terrain (CFIT).

This information is not intended to supersede operators'/manufacturers' policies, practices or requirements, or to supersede government regulations.

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▶ **FSF ALAR Tool Kit Menu**

▶ **[Flight Safety Digest: "ALAR Briefing Notes"](#)**

A collection of 34 documents on a variety of topics to help prevent approach-and-landing accidents (ALAs), including those involving controlled flight into terrain (CFIT). (Adobe® Acrobat® Portable Document Format [PDF])

▶ **[Flight Safety Digest: "Killers in Aviation: FSF Task Force Presents Facts About Approach-and-landing and Controlled-flight-into-terrain Accidents"](#)**

Findings of FSF ALAR Task Force studies and the accident/incident data from which they were derived. (Adobe® Acrobat® PDF)

▶ **[FSF ALAR Task Force Conclusions and Recommendations](#)**

Eight data-driven conclusions about ALAs and numerous strategies for achieving ALA reduction. (Adobe® Acrobat® PDF)

▶ **[FSF ALAR Task Force Members](#)**

Aviation safety specialists who volunteered for the fight against ALAs. (Adobe® Acrobat® PDF)

▶ **[Selected FSF Publications](#)**

Related reading on ALAs and CFIT. (Adobe® Acrobat® PDF)

▶ **[Approach-and-landing Risk Awareness Tool](#)**

A recommended supplement to the normal approach briefing for increasing flight crew awareness of hazards; includes elements of a stabilized approach. (Adobe® Acrobat® PDF)

▶ **[Approach-and-landing Risk Reduction Guide](#)**

Guidelines to help chief pilots, line pilots and dispatchers evaluate training, standard operating procedures (SOPs) and equipment. (Adobe® Acrobat® PDF)

▶ **[Standard Operating Procedures Template](#)**

Recommended elements for company SOPs and training procedures. (Adobe® Acrobat® PDF)

▶ **[ALAR Information Posters](#)**

Four posters illustrate lessons learned about ALAs. (Adobe® Acrobat® PDF)

▶ **[CFIT Checklist](#)**

Guidelines (in Arabic, Chinese, English, French, Russian and Spanish) for assessing CFIT risk. (Adobe® Acrobat® PDF)

▶ **[CFIT Alert](#)**

Procedure for immediate response to a ground-proximity warning system/terrain awareness and warning system warning. (Adobe® Acrobat® PDF)

▶ **[Flight Operations and Training](#)**

Data, procedures and recommendations for aircraft operators and pilots, presented on 32 slides with explanatory notes. (Microsoft® PowerPoint®)

▶ **[Equipment for Aircraft and Air Traffic Control](#)**

Analysis of equipment and methods for optimum use of equipment, presented on 26 slides with explanatory notes. (Microsoft® PowerPoint®)

▶ **[Air Traffic Control Communication](#)**

Improving pilot-controller communication and understanding of each other's operating environments, presented on 22 slides with explanatory notes. (Microsoft® PowerPoint®)

▶ **[Pilot Guide to Preventing CFIT](#)**

CFIT accident data and lessons learned, plus a review of approach obstruction-protection criteria, presented on 43 slides with explanatory notes. (Microsoft® PowerPoint®)

▶ **[Approach-and-landing Accident Data Overview](#)**

ALA data and lessons learned, presented on 23 slides with explanatory notes. (Microsoft® PowerPoint®)

▶ **[An Approach and Landing Accident: It Could Happen to You](#)**

A 19-minute video presentation of specific data, findings and recommendations generated by FSF ALAR Task Force studies. (Apple Computer Inc. QuickTime™)

▶ **[CFIT Awareness and Prevention](#)**

A 32-minute video presentation of CFIT statistics, plus analyses of three representative CFIT accidents and how they might have been avoided. (Apple Computer Inc. QuickTime™)

▶ **[Links to Aviation Statistics on the Internet](#)**

A sampling of aviation statistical data sources on the Internet. (Adobe® Acrobat® PDF)