



LASER EYE PROTECTION PROGRAM (LEPP)

MITIGATE RISKS. INCREASE SAFETY.

The Laser Eye Protection Program (LEPP) is a timely and cutting-edge training program to teach aircrew members the capabilities, limitations and preventative measures required to respond to a laser strike. The training covers useful techniques and procedures used to protect the aircrew and assets in the event of a laser strike, as well as measures to develop and implement an in-house laser protection policy. The training is designed to increase awareness and educate organizations on the associated risks in an effort to lower the risk of laser eye damage.

MARKET NEED

With the use of laser technology becoming increasingly accessible, aircrew members are being affected by lasers in many ways. Some common symptoms may be minor eye irritation, temporary blindness, and permanent retinal damage. This can lead to aircrew members being prevented from completing their duties, loss of situation awareness, and ultimately loss of aircraft control. Many organizations, such as Law Enforcement and Emergency Response agencies have recognized the need for a laser eye damage mitigation program.

TRAINING OVERVIEW

To address this need, Night Flight Concepts, in partnership with Delta P®, an aerospace support company for flight operations, has developed the LEPP training course. LEPP provides up-to-date information and mitigation techniques on the increasingly prevalent problem of laser eye damage facing today’s public safety aviation sector. Upon completion of the course the students will have a sound understanding of the affects of lasing and methods for mitigating the problem.

TRAINING HIGHLIGHTS

LEPP training includes operational instruction for aircrew-members to learn flight techniques and other initial responses to laser strikes. The course provides information for aircrew-members on how best to protect themselves from permanent laser eye damage while maintaining control of the aircraft. The course can help public safety aviation units reduce the possibility of losing a valued aircrew-member or aircraft due to a laser strike.

FEATURE

Types of Lasers	Defining the level of hazards associated with different classifications of lasers.
Effects of Lasers	Describing and showing the various injuries and problems associated with laser eye strikes.
Laser Eye Damage Tracking	Laser incident reporting to establish known history and track future occurrences.
Protection Measures	Identifying numerous passive and active protective measures to mitigate laser eye damage.
Post-strike Measures	Immediate action plan after encountering a laser strike ranging from immediate to post flight measures.

BENEFITS HIGHLIGHTS

LEPP helps aviation operators:

- Develop operational strategies to prevent or minimize laser strikes
- Learn flight profile techniques to minimize the effects of lasers
- Track Individual Laser Incident Reporting
- Lower the risk of laser eye damage by increasing awareness



Night Flight Concepts (NFC) is a comprehensive night vision technology (NVT) provider specializing in night vision goggle (NVG) pilot and crewmember flight training, NVG service & maintenance repair, NVG maintenance technician training, and night vision program support for law enforcement agencies, air medical/rescue services, military organizations, and government task force agencies worldwide.

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Delta P provides aerospace physiology and human factors operational support in order to meet the needs of various aviation units. Their expertise is employed in the training of aviators and support staff to encourage the anticipation of the physical challenges associated with aviation. They leverage extensive experience, capabilities and resources to provide state-of-the-art methods in support of aviation operations and engineering design projects.