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Bulletin

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NVG Maintenance Personnel Training

Example: A&P Mechanics, IA's, Avionics Technicians, etc.

The following guidance is provided by Night Flight Concepts, Inc. as the minimum training recommended to act as an NVG maintenance personnel for aircraft using Night Vision Goggles (NVGs). This information is accessible by visiting <http://www.nightflightconcepts.com>.

NVG Maintenance Personnel Training

It is highly recommended that maintenance personnel who support HNVGO also receive training regarding NVG operations.

NVG maintenance personnel are at the forefront of safe NVG operations. We will discuss both NVG maintenance training, as well as NVG compatible aircraft lighting maintenance training.

NVG Maintenance Training

To maintain an NVG, the maintenance technician must ensure that he/she has received proper training on the inspection, maintenance, and repair as applicable. In addition, the training received must relate to the NVG equipment the technician is tasked to maintain. NVGs are delicate and require special care and handling techniques. In addition, the technician or maintenance facility to perform the tasks required must obtain special equipment. Some of this equipment includes an NVG tool kit, purge kit, and Hoffman Engineering NVG test equipment.

NVG maintenance training courses are usually one-week in length. Depending on the training provider, the training program may be limited to only make of NVG. This would be the case where the training provider is directly affiliated with an NVG manufacturer. If the NVG maintenance-training provider is an independent facility, the course will most likely cover all make of NVGs approved for operations by the FAA. This would be a much better option for the technician being trained, as the course would provide a value-added opportunity to learn maintainability of all NVGs.

NVG Compatible Aircraft Lighting Maintenance Training

The most common NVG maintenance issue is continued airworthiness of NVG compatible cockpit lighting. When maintenance is performed on an NVG modified aircraft, it is imperative that the aircraft be re-evaluated for NVG compatibility upon completion of maintenance if modified components were altered. An example would be radio removal and installation, light-bulb replacement, or the addition of any equipment after the NVG cockpit evaluation has been performed.



The ability for a pilot or crewmember to have optimum visual acuity while using NVGs is dependent on being able to see through the windscreen. Non-compatible lighting in an aircraft when NVGs are being utilized may reduce the visual acuity of the user. This could prove deadly if the visual acuity was reduced and the pilot or crewmember as unable to see an obstacle during flight.

Since the NVG cockpit light modification is accomplished via Supplemental Type Certificate (STC), the maintenance technician returning the aircraft to service must ensure continued airworthiness of the NVG lighting prior to NVG use.

NVG maintenance training courses should cover continued airworthiness of existing NVG compatible aircraft in the course provided. If this information is not included in the NVG maintenance-training curriculum, it is strongly encouraged to find an NVG maintenance-training course that does include this information. Only through proper training can the NVG maintenance technician ensure compliant continued airworthiness of an NVG modified aircraft.

Source:

Night Flight Concepts
NVG Part 145 Repair Station
Training Program

Learn More

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