

Gleim Commercial Pilot ACS and Oral Exam Guide

First Edition, 1st Printing

Updates

January 2018

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Oral Exam Guide, Part II: Airman Certification Standards (ACS) Tasks

Page 110, Area of Operation I: Preflight Preparation, Task C., Weather Information, Question 155: These edits correct and clarify the answer.

155.	What are the types of fog and how are they formed?	<p>The fog types include radiation, advection, precipitation-induced frontal, upslope, steam, and ice. Radiation fog forms when the air close to the ground is cooled faster than the air above it (usually at night or near daybreak). Advection fog forms along coastal areas when the water is warmer than the air around it. Precipitation-induced Frontal fog forms when relatively warm rain or drizzle falls through cool air and evaporation from the precipitation saturates the cool air. Upslope fog forms as a result of moist, stable air being cooled adiabatically as it moves up sloping terrain. Steam fog forms in winter when cold, dry air passes from land areas over comparatively warm ocean waters. Ice fog occurs in cold weather when the temperature is well below freezing and water vapor sublimates directly into ice crystals.</p>
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