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# Night Operations

## Aviation Instructor's Lesson Plan

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**OBJECTIVE** This lesson will develop the student's understanding of the factors associated with operating an aircraft between sunset and sunrise.

- ELEMENTS**
- Physiological aspects of night flying as it relates to vision
  - Regulations concerning night flying
  - Disorientation and night optical illusions
  - Proper adjustment of interior lights
  - Importance of having a flashlight with a red lens
  - Lighting systems identifying airports, runways, taxiways and obstructions, and pilot controlled lighting
  - Night preflight inspection
  - Engine starting procedures, including use of position and anticollision lights prior to start
  - Taxiing and orientation on an airport
  - Takeoff and climb-out
  - In-flight orientation
  - Night orientation, navigation, and chart reading techniques
  - Importance of verifying the airplane's attitude by reference to flight instruments.
  - Night emergencies procedures
  - Traffic patterns
  - Approaches and landings with and without landing lights
  - Go-arounds

- REFERENCE**
- The Flight Instructor's Kit***
- Area of Operation 2, Task A: Aeromedical Factors
  - Area of Operation 2, Task H: Airport and Runway Markings and Lighting
  - Area of Operation 2, Task J: Federal Aviation Regulations

**COMPLETION STANDARDS** The student should be able to demonstrate knowledge of the factors that must be taken into account when operating at night.