



Overview

Mastering the Exposure Triangle is essential for photographers aiming to achieve the perfect balance of aperture, shutter speed, and ISO. This assignment will guide you through practical exercises that enhance your understanding and application of these critical elements in photography, enabling you to create stunning images with precision and creativity.

Learning Objectives

- Understand the relationship between aperture, shutter speed, and ISO in the exposure triangle.
- Apply correct camera settings to achieve desired exposure in various lighting conditions.
- Develop skills to creatively manipulate exposure for artistic effect.

Related Reading

Before you start, read these related blog posts to deepen your understanding:

What Is Exposure In Photography	What Is Iso In Photography	What Is Shutter Speed
What Is Depth Of Field	What Is Manual Exposure In Photography	What Is Dynamic Range In Photography

Before You Shoot

- Familiarize yourself with your camera's manual settings and modes.
- Select a suitable location with varying light conditions.
- Prepare a notebook or digital device to record settings and observations.
- Ensure your camera battery is fully charged and memory card has sufficient space.
- Set your camera to manual mode to gain full control over the exposure triangle.

Assignment Tasks

1. Capture a portrait using f/2.8, 1/125s, ISO 200 in aperture priority mode to achieve a soft background blur.
2. Photograph a moving subject (like a car) at f/5.6, 1/500s, ISO 100 in shutter priority mode to freeze the motion.
3. Shoot a landscape at f/11, 1/60s, ISO 100 in manual mode to ensure sharpness from foreground to background.
4. Experiment with night photography at f/4, 10s, ISO 800 using manual mode to capture light trails and stars.
5. Create an artistic shot of flowing water at f/8, 1/2s, ISO 100 in manual mode to achieve a silky effect.
6. Capture a scene with high contrast by using f/16, 1/250s, ISO 100 in manual mode to maintain detail in both shadows and highlights.

Stretch Tasks

- Create a time-lapse sequence by shooting at f/8, 1/30s, ISO 100 in manual mode, adjusting settings based on changing light conditions.
- Photograph a subject under mixed lighting (daylight and artificial) at f/5.6, 1/60s, ISO 400 in manual mode, adjusting white balance to achieve natural skin tones.



DO / DON'T

DO

- ✓ Do experiment with different settings to see their effects on exposure and image quality.
- ✓ Do take notes on your settings and results to track your progress in mastering the exposure triangle.
- ✓ Do use a tripod for long exposure shots to prevent camera shake.
- ✓ Do practice shooting in various lighting conditions to understand how to adapt your settings.
- ✓ Do review your images on a computer to analyze exposure and make necessary adjustments.

DON'T

- ✗ Don't rely solely on automatic modes; practice using manual settings to gain full control.
- ✗ Don't ignore the histogram; it is crucial for understanding exposure levels.
- ✗ Don't hesitate to use exposure compensation in challenging lighting situations.
- ✗ Don't forget to adjust your ISO for different lighting conditions to avoid noise.
- ✗ Don't be afraid to experiment; creativity often comes from trying unconventional settings.

Reflection Questions

- How did changing one element of the exposure triangle affect the final image?
- What challenges did you face while trying to achieve the desired exposure?
- In what scenarios did you find yourself relying more on one aspect of the exposure triangle over the others?
- How can understanding the exposure triangle influence your creative decisions in photography?

Technical & Creative Focus

Technical:

- Use the histogram to evaluate exposure; aim for a balanced histogram without clipping highlights or shadows.
- Experiment with different metering modes (evaluative, center-weighted, spot) to see how they affect exposure.
- Adjust white balance settings based on the lighting conditions to maintain color accuracy.
- Utilize exposure compensation to correct for tricky lighting situations, especially when shooting in automatic modes.
- Practice using depth of field by adjusting aperture to see how it affects background blur and subject isolation.

Creative:

- Explore long exposure photography by using a slow shutter speed (e.g., 1/4s) to create motion blur in moving subjects.
- Experiment with shallow depth of field (e.g., f/1.8) to emphasize your subject against a blurred background.
- Use high ISO settings (e.g., ISO 1600) in low-light conditions to capture details without flash.
- Capture high dynamic range images by bracketing exposures (e.g., f/8, 1/100s, ISO 100 for normal exposure, then adjusting settings for highlights and shadows).
- Create silhouettes by backlighting your subject and adjusting exposure settings (e.g., f/16, 1/200s, ISO 100) to darken the subject.