



Overview

This assignment focuses on mastering ISO settings and understanding noise control in photography. By utilizing aperture and shutter priority modes, you'll explore how adjusting ISO affects exposure and image quality.

Learning Objectives

- Understand the relationship between ISO, exposure, and noise.
- Learn to control noise levels while shooting in varying light conditions.
- Practice using aperture and shutter priority modes effectively.

Related Reading

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

[What Is Iso In Photography](#)

[Exposure Bracketing A Guide For Photographers](#)

Before You Shoot

- Select a location with varying light conditions (e.g., indoors, outdoors during sunset).
- Ensure your camera is set to either aperture priority or shutter priority mode.
- Clean your camera lens for optimal image quality.
- Charge your camera battery to avoid interruptions during shooting.
- Familiarize yourself with your camera's ISO settings and noise reduction features.

Assignment Tasks

1. Use aperture priority mode at f/4 with ISO 200 fixed, letting the camera set shutter speed for a landscape shot.
2. Use shutter priority mode at 1/250s with ISO 200 fixed, letting the camera adjust aperture to capture a moving subject like a cyclist.
3. Shoot in a dimly lit room using aperture priority mode at f/2.8 with ISO 200 fixed, allowing the camera to determine the shutter speed.
4. Capture a night scene using shutter priority mode at 1/60s with ISO 200 fixed, letting the camera set aperture for proper exposure.
5. Photograph a stationary object outdoors using aperture priority mode at f/8 with ISO 200 fixed, allowing the camera to adjust shutter speed for a detailed shot.
6. Experiment with a series of portraits using shutter priority mode at 1/125s with ISO 200 fixed, letting the camera set aperture while focusing on the subject.

Stretch Tasks

- Try shooting at ISO 800 in a low-light scenario using aperture priority mode to assess noise levels and image quality.
- Conduct a comparison shoot using both aperture and shutter priority modes, documenting how each affects noise and exposure.



DO / DON'T

DO

- ✓ Do keep your ISO as low as possible for the cleanest image quality.
- ✓ Do experiment with different lighting conditions to see how ISO changes impact your images.
- ✓ Do take notes on the noise levels at different ISO settings during your shoots.
- ✓ Do use a tripod or stabilize your camera when shooting at lower shutter speeds to minimize blur.
- ✓ Do review your images on a computer to better assess noise and detail.

DON'T

- ✗ Don't set ISO to auto; choose a fixed value for better control.
- ✗ Don't shoot at high ISO levels without testing the noise impact on your images.
- ✗ Don't ignore the impact of light conditions on your ISO choice; adjust accordingly.
- ✗ Don't rely solely on post-processing to correct noise; aim to shoot with the lowest possible noise from the start.
- ✗ Don't forget to check your camera settings between shots to ensure consistency.

Reflection Questions

- How did changing the ISO affect the clarity and noise levels in your images?
- What challenges did you face while shooting at different fixed ISO levels?
- How did using priority modes change your approach to exposure and composition?
- Which ISO setting do you find most effective for your style of photography, and why?

Technical & Creative Focus

Technical:

- Set your camera to a fixed ISO value (e.g., ISO 200).
- Use aperture priority mode to control depth of field while letting the camera adjust shutter speed.
- Experiment with shutter priority mode to freeze motion while keeping ISO fixed.
- Monitor the image histogram to assess exposure and noise levels.
- Use noise reduction settings in-camera or during post-processing if necessary.

Creative:

- Explore different aperture settings to create unique depth of field effects.
- Utilize shutter priority to capture dynamic movement in your subject matter.
- Experiment with high ISO in low light to see how it affects your images creatively.
- Try shooting the same scene at different ISO settings to compare noise levels.
- Incorporate both high and low ISO images into a cohesive photo series.