Aurora Photography - Capturing the Auroras with Manual Camera settings

(Beginning – Intermediate level)

Approx.

My Background & Photography achievements. 3 collage images in a slideshow of my portfolio while giving background info — (5 min)

Camera Settings overview – What we will cover in this instructional — (5 min)

Basic long exposure techniques high level — (5 min)

Camera gear Required (Good, Better, Best for each, and Why) — (10 min)

- Cameras (Mega pixels, Sensor types, better for low light, Costs, New/used options)
- Lens (Quality, Aperture sizes and f-stops, lens mounts, infinity focus locks, filters)
- Tripod (Types of Tripods and heads, price, what NOT to get)
- Shutter Release cable / Intervalometer (how they benefit)
- Batteries (types and maintenance)
- Lens Heaters (short explanation their role)

Focus — (15 min)

- Manual Focus Basics
- Setting Focus and keeping it
- Focus Peaking (Advanced)

Manual vs P, Av, Tv, or Green Square, & Scene Icons (Brief discussion) — (5 min)

Manual Settings (Please take notes on this part writing and hearing along with seeing increases retention) — (Main Topic 20-30 min)

- ISO
- Shutter Speed
- f-stop
- K Temp

Advanced Camera information — (10 min)

- Histogram (very basic how to read and what you should want and not want, what it means)
- Composition (planning the shot, foreground, horizon, light pollution)
- Scouting (basic approach)

Long exposure photography to practice with your camera when the sun is quiet — (5 min)

- Lightning
- Star Trails
- Meteor showers
- Fireworks
- Car head light / taillight trails

Closing Recap – Gear, ISO, Shutter Speed, f-stop, K Temp (Cheat sheet hand out and/or laminated card) — (5-10 min)

Questions — (5-10 min)

The instructional time can change if needed for even 1 or 2hrs increments if required. — 1.5 hrs Total

