

### HIGHWAY AERIAL CAMERA OPERATOR

DESCRIPTION: Under general supervision, plans and schedules aerial photography flight operations; operates aerial photography equipment; performs related work as required.

EXAMPLES OF WORK: (A position may not be assigned all the duties listed, nor do the listed examples include all the duties that may be assigned.)

Reviews computer sheets to determine which projects require photo development.

Determines the average ground elevations for proposed flights using U.S. Geological topographical maps.

Designs flight lines on 1/2" = 1 mile county maps to insure proper coverage.

Consults with Nebraska Department of Roads (NDOR) personnel who about flight requests.

Installs the camera into the aircraft.

Selects and monitors camera settings according to weather conditions during the flight.

Computes flight altitudes, plans flights with pilot, and assists in navigation.

Edits film including locating flight lines, omitting bad flight lines; stamping flight information onto processed film; and ordering prints.

Locates and labels all control points on prints.

Downloads GPS data; manipulates and analyzes data segment to establish latitude and longitude to determine coordinates.

Makes and distributes coverage maps of all flight lines.

Makes mosaics and order blue prints.

FULL PERFORMANCE KNOWLEDGE, ABILITIES AND SKILLS REQUIRED: (These may be acquired on the job and are needed to perform the work assigned.)

Knowledge of: aerial camera operation and maintenance; aerial photography principles and techniques; airplane controls and instruments; geodetic, preliminary and right-of-way surveying techniques, policies and procedures; computer program applications; GPS operations and procedures in the field office.

Ability to: optimize photo results by coordinating with others; relate features on a map to objects on the ground; plans control flights with a minimum of control points.

Skill in: operating high precision survey instruments in a consistent, efficient manner; communicating clear and precise instructions to others.

HIGHWAY AERIAL CAMERA OPERATOR (continued)

ENTRY KNOWLEDGE, ABILITIES, AND SKILLS REQUIRED: (Applicants will be screened for possession of these through written, oral, performance, and/or other evaluations.)

Knowledge of: basic surveying techniques; NEBRASKA TRAVERSE program; State Plane Coordinate System.

Ability to: operate survey instruments including GPS receivers, electronic data collectors and hand-held calculators.

Skill in: drafting techniques; accurately measuring and computing angles, distances and elevations; communicating effectively with others.

JOB PREPARATION GUIDELINES: (Entry knowledge, abilities, and/or skills may be acquired through, BUT ARE NOT LIMITED TO, the following coursework/training and/or experience.)

Any combination of training and/or experience that will enable the incumbent to possess the required knowledge, abilities and skills. A general qualification guideline for positions in this class is high school education or equivalent AND education or experience in surveying and/or photography.

SPECIAL NOTE

Must be able to lift 80 pounds.

Valid drivers license required