

Specification for Class of

PHOTOGRAMMETRIST 1

Abolished Initially Effective January 13, 2006

Abolished Final Effective February 10, 2006

Definition: Performs professional photogrammetric engineering tasks, as assigned, under the direction of a Photogrammetrist 2 or Photogrammetry Supervisor.

Typical Work

Compiles precise 2D and 3D planimetric and topographic maps/data of difficult areas where extensive photo-interpretation and judgment is required using precision stereoscopic instruments;

Determines the configuration of terrain surface in digital form; determines instrument coordinate positions of image points and prepares the data for electronic machine computation;

Compiles Digital Elevation Models (DEM's) and/or Digital Terrain Models (DTM's) for use in the production of orthophotos or generation of topographic contours, and volumetric calculations;

Performs digital file translations and manipulations to accommodate various CAD, GIS, and Engineering design systems/programs;

May assist in designing and preparing individual aerial photogrammetric projects; performs editing of digital data; performs aerotriangulation of small blocks/ flights/projects including point selection and marking, mensuration of photo coordinates, and, under supervision, performs computer adjustment and generation of final coordinate data;

Produces mylar or paper manuscripts using computer driven plotter in color or black and white at various scales;

May participate with the Survey Unit in Photogrammetric and Geodetic Services, including photo-identification of control points;

Cleans photogrammetric instruments;

Performs other duties as required.

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Knowledge and Abilities

Knowledge of: basic mathematics of photogrammetry and surveying; stereoscopic instruments and photogrammetric applications; topographic and cartographic practice; aerial photographic and photo-lab techniques; field procedure for control surveys, including photo-identification of control; planning and estimating photogrammetric projects; map accuracy evaluation; principles of effective supervision.

Ability to: operate photogrammetric instruments and related equipment on mapping assignments; perform aerotriangulation and process digital data, perform cartographic functions.

Minimum Qualifications

Three years of experience performing technical photogrammetric map/data compilation, preparation, and other photogrammetric support tasks, one year of which must be operating precision photogrammetric instruments.

An Associate's degree in photogrammetry, cartography, civil engineering, geodesy, geography, forestry, or related field may substitute for one year of the non-instrument experience.

A Bachelor's or higher degree in photogrammetry, cartography, civil engineering, geodesy, forestry, or related field may be substituted for two years of the non-instrument experience.

NOTE: Ability to see stereoscopically and normal color perception is required.

New class: 12-10-93