

Job Class Profile: **Aerial Photographic Technician I**

Pay Level: **CG-22** **Point Band:** **364-387**

Factor	Knowledge	Interpersonal Skills	Physical Effort	Concentration	Complexity	Accountability & Decision Making	Impact	Development and Leadership	Environmental Working Conditions	Total Points
Rating	3	2	2	4	2	1	2	1	2	
Points	140	33	13	19	60	22	41	21	21	370

JOB SUMMARY

The Aerial Photographic Technician I operates and maintains a range of colour and black and white aerial photo digitizing equipment in the production of a variety of cartographic, aerial survey and mapping related photographic products.

Key and Periodic Activities

- Photogrammetric Scanning – Digitally capturing a full frame aerial photograph at a geometric resolution, 1700dpi or 15 um per pixel, for use in the making of ortho-rectified images or line maps.
- Graphic Scanning - Digitally capturing a full frame aerial photograph at a geometric resolution of 600dpi or less for display and photo interpretation.
- Image Setting – Non-destructive editing, where the original signals are not modified in the course of editing; instead the edits themselves are edited. Images consist of digital photographs, traditional analog photos or illustrations using software programs such as Photoshop and Silverfast Ai.
- Creates aerial products – Produces finished products for the customers in the form of soft and hard copy. (i.e. CD/DVD/ photographs).
- Collates, checks, processes, and packages orders to prepare for shipping.
- Photogrammetric calibration – periodically or when needed, checking calibration of both the photogrammetric and graphic scanners.

SKILL

Knowledge

General and Specific Knowledge:

- Knowledge of related computer applications software (Ultra scan5000, Silverfast Ai, Photoshop).
- Knowledge of photogrammetric scanning software and equipment.
- Knowledge of standardized work methods, process and procedures.
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Formal Education and/or Certification(s):

- Minimum: 2 Year Specialized Technical Diploma in Photography, image enhancement and digital imagery, Aerial photography, related software and technology.

Years of Experience:

- Minimum: 1 - 2 years

Competencies:

- Operate specialized equipment.
- Calibrate related equipment.

Interpersonal Skills

- Interpersonal skills are used to listen to information from others or ask questions and provide monthly routine information to others.
- Most significant contacts are: employees in the immediate work unit; supervisor to receive work assignments and report; and customers to confirm orders.

EFFORT**Physical Effort**

- Work demands do not result in considerable fatigue requiring periods of rest. Work provides the opportunity to stand and walk within the environment.
- Occasionally required to lift rolls of film (10-25 lbs.) into scanners and carry boxes of supplies to storage room.
- Work alternatively requires periods of regular sitting to perform activities.
- Fine finger precision work is occasionally required when using the computer mouse and keyboard to edit and colour correct image and in using hand tools.

Concentration

- **Visual** concentration is a regular requirement for image interpretation for scanning, image editing and checking maps for completeness and consistency.
- Tasks are repetitive and require **alertness** to maintain consistency and quality. For example, about 500 photos are required to make one map and each print must be the same tone and DPI.
- There are **occasional time pressures and interruptions** due to customer requests, special requests for immediate filling (i.e. police, search and rescue) and reacting to machinery malfunction/breakdown.
- **Exact results and precision and eye hand co-ordination** are also required for tasks requiring visual concentration.

Complexity

- Work typically involves tasks that are repetitive/well defined with some different but related allowing for the use of similar skills and knowledge.
- Problems tend to have obvious or limited solutions and can be addressed by following procedures or guidelines, referring to manuals or referring to supervisor.
- Work is specialized and technical in nature.

RESPONSIBILITY

Accountability and Decision-Making
<ul style="list-style-type: none"> — Work tasks and activities are highly monitored and controlled through the highly structured nature of the work. Quality control is a priority and procedures have to be followed. Equipment is highly sensitive thus the laboratory environment is controlled. — Supervisor's approval is required for purchasing supplies and equipment. Work is assigned by supervisor through work orders.
Impact
<ul style="list-style-type: none"> — Impacts generally affect the immediate work area, department, and clients. — Work activities impact equipment, finances and material resources. For example, the laboratory provides aerial photos to external clients and other government departments and generates revenue. Work must be completed in a timely manner and products must meet quality standards. — Consequences of errors are felt to some degree on the immediate work area, within the department and on customers/clients as errors lead to delays in production affecting customers.
Development and Leadership of Others
<ul style="list-style-type: none"> — Not responsible for the supervision of staff.

WORKING CONDITIONS

Environmental Working Conditions
<ul style="list-style-type: none"> — Safety equipment is not required although health and safety guidelines, procedures and practices are followed in carrying out duties. — The likelihood of minor injury or illness and fractures is limited. — Occasionally exposed to undesirable environmental conditions such as dirt, dust, noise, garbage, limited ventilation, and radiation in laboratory environment.