Job Class Profile:  Aerial Photographic Technician I  

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

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**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.
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

- 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

- 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

- Not responsible for the supervision of staff.

## WORKING CONDITIONS

### Environmental Working Conditions

- 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.