



JOB DESCRIPTIONS AND OCCUPATIONAL PROFILES

MAPPER

Duties

The Mapper:

- uses GPS or conventional equipment, as well as specialized computer equipment to create a detailed topographical map of the seismic lines and surrounding areas
- is responsible for including all relevant hazards on maps
- is responsible for including all relevant information on maps
- reports to Survey Coordinator
- is responsible for creating access maps to projects
- collect, manipulate and present data using ground surveys, remote sensing, photogrammetry (aerial photographs), laser ranging, global navigation satellite systems (GNSS) or hydrographic methods
- provide data to be used for analysis and mapping in geographic information systems
- use information from GNSS to determine coordinates
- use digital mapping techniques and computer assisted design and drafting (CADD) software to generate maps and related graphs and charts
- process digital data to clean up graphical and attribute errors
- process aerial and satellite image data to produce rectified images, topographic maps, image mosaics and related products
- operate analytical or soft copy stereoscopic plotting and computer graphics equipment
- develop specialized computer software, internet-based GIS, database and business applications to customize geographic information
- develop and use processing functions to combine, manipulate and analyze geospatial data
- create two-dimensional maps, interactive web maps or three dimensional visualizations to display mapping data or geospatial analysis results
- integrate external software such as spreadsheets and statistical packages with GIS software
- Train and provide technical support for GIS users.

Working Conditions

- Some jobs will allow the mapper to work remotely or from an office, if it isn't the case the mapper should be able to:
 - walk long distances through various types of uneven terrain
 - work outdoors in all types of weather conditions
 - travel in small aircraft or helicopters
- Spend extended periods of time away from home, living and working in close contact with a number of people.

Personal Characteristics

Mapping technologists need the following characteristics:



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- Good mathematical skills
- The ability to pay close attention to details
- Good communication skills
- Good problem solving skills.

They should enjoy generating maps, analyzing information to compile data and performing tasks that require precision.

Educational Requirements

The recommended educational background for mapping technologists is a two-year diploma in geomatics engineering technology. It is possible to learn on the job and take related courses part time but not common.

Preference is also given to applicants that possess safety training related to job duties:

- First aid/CPR training
- All-Terrain Vehicle (ATV)
- General Oilfield Driver Improvement (GODI)

GWR offers in-house training for certain safety tickets:

- Hydrogen Sulphide (H₂S) Awareness
- WHMIS (Workplace Hazardous Materials Information System)
- Transportation of Dangerous Goods (TDG)
- Basic Safety Awareness
- Seasonal Training such as Wildlife Awareness and Cold Weather/Wilderness Awareness