



# VIBRATION ANALYST

apprentice performance engineer, manager, performance engineering, vibration technician, boiler tester, dye penetrant tester, vibration analysis technician - non-destructive testing, weld tester

Vibration analysts are described more formally as non-destructive testers and inspection technicians. They test forestry machinery and infrastructure using radiographic, ultrasonic, liquid penetrant, magnetic particle, eddy current and other testing equipment.

If you follow this career path, you probably have an affinity for quality control, maintenance and safety. You will spend time evaluating the condition of a range of machines by understanding vibration data and how machines perform.

Whatever your day brings, you'll know that every time you head into work, you can look forward to being happy with the lifestyle you've earned.

## KEY RESPONSIBILITIES



Vibration analysts perform a wide range of technical functions.

On any given day, you might:

- Set up and calibrate non-destructive testing equipment
- Conduct tests to ensure quality or detect discontinuities (defects) using ultrasonic, radiographic, liquid penetrant, magnetic particle, eddy current and other non-destructive testing methods
- Establish techniques to examine objects under inspection, ensuring strict adherence to safety regulations
- Instruct and supervise trainees
- Interpret radiographs, cathode ray tube (CRT) or digital readouts, conductivity meters and visual indicators
- Apply testing criteria in accordance with applicable specifications or standards and evaluate results
- Organize and report test results
- Perform specialized inspections using acoustic emission, vibration analysis, infrared thermography and laser shearography testing methods

## EDUCATION AND TRAINING



The training and education required to work as a vibration analyst is certified by the Canadian government. You need to finish high school and then complete two years of an approved post-secondary science or engineering program. After that you are eligible to write exams to earn a "non-destructive testing" certificate from Natural Resources Canada. This is available in three levels and is usually required by employers. See the list of approved test centres across Canada.

**Apprenticeship grants:** Apprentices can receive up to \$4,000 in grants to pay tuition, travel, tools, or other expenses. If you are considering an apprenticeship, visit the interprovincial Red Seal program for information on how to get started.

Here is a complete list of Canadian Universities and Colleges:

[thegreenestworkforce.ca/education](http://thegreenestworkforce.ca/education)

### Notice

The requirements listed are generally required qualifications for this Career Type. The qualifications may vary based on the employer and/or the geographic location of that job.

## THIS JOB IS RIGHT FOR YOU IF:



- You want to live an oversized life in one of Canada's beautiful forest communities
- A sense of community is important to you
- You like variety and learning new things
- You like solving problems
- You want to make a difference working in a green job
- You like analytical thinking
- You are handy with tools
- You cooperate well with other tradespeople

## DARE TO COMPARE

See how much time and money you would save by moving to a forest community.

[thegreenestworkforce.ca/compare](http://thegreenestworkforce.ca/compare)

**If you want good pay, opportunities to learn on the job, a great lifestyle and the chance to work in Canada's Greenest Workforce, then the forest products industry is right for you.**