

# MISSION: PRECISION

## TRADE LINK: CNC MACHINIST/PRECISION MACHINING

### RATIONALE:

Procedure is defined as “an established or official way of doing something.” It is well documented that our lives are heavily influenced by routine, or procedures. You should know how to write and document procedures accurately and effectively. Effective communication in explaining tasks is an important task to have in any industry and precision in these tasks becomes very important in certain trade areas.

### METHOD:

In this activity, you will design a set of procedures that others can follow to complete some sort of task accurately and effectively. Using common everyday tasks, you will write procedures on completing a specific task. This could be, tying your shoes, getting dressed, putting on hockey equipment, setting up a computer, etc.

### MATERIALS:

- Paper/notebook
- Sample drawing with lines (i.e. house)
- Ruler
- Protractor
- Pencils

### GETTING STARTED:

Procedures help people who are not familiar with a task or chore and give them steps to help them complete it, to the standards that you would like. In this activity, you'll experience writing a few sets of procedures.

### THE ACTIVITY:

1. Think of a task that you perform and write out every step to complete it.
2. Select a picture of a house and describe the procedure in drawing it, to exacting standards (i.e. draw a 9 cm straight line parallel to the bottom of the page; draw two perpendicular lines at 90° angles at each end of the original line that are 9 cm in length, etc. Precise measurements are crucial.
3. Think how this would be important in building or creating tables, chairs, desks, houses, screws, nails, lumber, etc.
4. Search online what are the tasks of a precision machinist and show the parallels between the tasks that you have completed and their tasks. Precision machining is what produces a huge number of both large and small objects that we use in daily life. Each intricate piece that makes up an object requires one level or another of a machinist's skills.

### BRANCHING OUT:

You put together a piece of furniture to demonstrate why accuracy, to the nearest mm is important.

