



SIMAC

**SIMAC
Radiotherapy
Linac
Simulator**

LINAX

SIMAC for Linear Accelerator Training

For those personnel who are employed in a cancer centre and provide first line service for linear accelerators, the challenge to learning their trade includes both the overall complexity of the linac, but also the limited opportunities to access a wide array of problems. Their goal is to keep the machines working all the time; to be effective they need to have self-confidence to be an independent first responder for linac repairs knowing that their work, if not done well, can be very dangerous to patients and the machine itself.

linax.ca includes:

- A simulated environment that speeds up the training of linear accelerator service personnel.
- A learning curriculum where a student can be trained in a short period of time to be sufficiently prepared so that they are ready for a vendor training course.
- A web-based linac simulator and a series of lessons designed to describe the functionality of different components of the linear accelerator.
- Exercises/labs designed to allow the student to better understand some specific principles of operation.
- Video instruction and quizzes for assessment.

“Like a flight simulator for pilot training, SIMAC is an environment where learners can be trained to maintain a linear accelerator without the fear of damaging or misadjusting the machine”

About SIMAC

SIMAC is intended to be a fully functional simulator of all commercially available linac types that simulates the basic linac physics as well as specific components that fail often, such as low voltage circuits, computer control problems, MLC problems, and much more.