

**PERSONAL MOBILE CRANE SIMULATOR**

Everyone knows that the key to crane operator training is adequate time at the controls. It used to be that almost anyone could climb into the cab and begin pulling levers. But such training is costly, can damage equipment, and may even put people at risk.

Now Simlog has created something new to:

- better select training candidates, since studies show that up to 30% of trainees lack the necessary natural abilities such as eye/hand coordination and depth perception to become truly proficient
- better train new operators, by helping them come up to speed more quickly
- better evaluate and improve operator skills e.g. in preparation for crane operator certification in a way that is completely safe, inexpensive, and available whenever you want and wherever you are, not to mention reducing wear-and-tear on real cranes!

Simlog's Personal Mobile Crane Simulator is the world's first, and only, professional training simulation product designed for set-up on the customer's own PC, consisting of simulation software and commercial (off-the-shelf) joysticks. Costing just USD\$2,700, the Personal Mobile Crane Simulator brings effective, affordable operator training help to the customer's desktop.

Simlog's new product puts you at the controls of a typical mobile hydraulic crane equipped with telescoping boom and jib, and a variety of loads and hook blocks. Instrument readings are also displayed (boom angle, length, height, radius, quadrant), along with a simulated load-moment indicator. You can follow the load, boom tip, or target position by simply changing the point of view during the simulation.

At the heart of our instructional design framework is the decomposition of the operator's task into pre-defined "Simulation Modules" (cf. screenshots on following page) which introduce the key parts of the task, one at a time. Each module presents a new goal that is challenging but attainable, thus reducing frustration while maintaining interest. Since each module builds upon what's learned in the previous modules, people learn more quickly. In order to measure the quality of the user's simulated work, the simulation software carefully evaluates key performance indicators which define what it means to "do the job right", such as the elapsed time to complete a simulation exercise, maximum load sway, collisions with obstacles, and even two-blocking. Immediate feedback is provided at the end of each simulation exercise, and summary data is saved on the PC's hard disk. In this way, you and your trainee can better evaluate training progress and better focus your training support. Extensive documentation is also provided in the form of user-friendly Web pages, along with the crane manufacturer's load charts in electronic format.

The simulation exercises were also designed with the support of the National Commission for the Certification of Crane Operators to help operators prepare for the Practical Exam.

Simlog's new product is now in use at leading operator training schools and crane-using companies in industries ranging from steel making to surface mining to nuclear power, with first customers in the following countries: Canada, Finland, France, Ireland, Nigeria, Saudi Arabia, Trinidad, U.S.A.

Sample testimonials from first customers: <http://www.simlog.com/testimonialscrane.html>.

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**Mobile Crane Simulator**

Craneco, Inc.  
Moving Loads

Start of session: 24/09/2001 11:34:21  
End of session: 24/09/2001 12:22:20  
Session duration: 00:47:59

Number of trials completed: 24

	average	minimum	maximum
Execution time (sec)	107.9	69.8	144.8
Time outside height range (sec)	2.9	0.8	9.0
Maximum height error (ft)	0.65	0.6	0.9
Maximum oscillation (ft)	5.60	2.6	9.3
Number of two-block's	0.00	0	0
Number of collisions	0.083	0	1

