VORTEX
Mobile crane training module
vortex.mimbus.com

The mobile crane training module is an extremely realistic simulator to practice safe lifting and productivity optimization.
A number of companies already placed their trust in VORTEX: Liebherr, Manitowoc, Mammoet, John Deere, BP, Haliburton and many more chose the most realistic simulator on the market. The movement, cables' and slings' oscillations, the boom's bending. Everything is there, with the extra presence of pedagogy.

BENEFITS

✔ *Reproduce realistic working conditions*

⧗ *Save time on your initial training and evaluations*

⏱ *Rapidly improve your trainees' real competencies*

⛉ *Place your trainees in a secured environment for training*

$ *Reduce costs related to equipment wear, consumption and damage*

STEP BY STEP LEARNING

| Understand the mobile crane's controls and functioning | Set-up the crane's LMI with or without jib, and lift some loads | Learn how to unload a truck | Work scenarios and full cycle | Measure precision and acquired competencies |

The mobile crane training module offers a learning path from beginner to expert level, to teach competencies through practice and strengthen the trainees' self-confidence.
Trainees are absorbed in a reality-like environment, where exercises' conditions are adjustable in real-time by the instructor, thus influencing the trainees' performances.

RESULTS' FOLLOW-UP FOR EACH CLASS AND EACH TRAINEE

The system informs the instructor about:

✔ Time and objectives completion

✔ Number of swings (main and auxiliary hook)

✔ Number of crashes (minor, major, critical)

✔ Shocks' strength during crashes and on the hook while lifting

✔ Optimal path with the loads

✔ Pressure on the track shoes and accelerator use percentage

✔ Precision skills during maneuvers

TECHNICAL CARD

HARDWARE	
Controls	3 pedals and joysticks (ISO and SAE standards)
Multi-trade driving station	2 m² (21.5 ft²) floor space
Main display	Screen: 1x46 '' or 1x 65''(curved) or 3 x46''
Secondary display	21'' touch screen
SOFTWARE	
Simulated machine	Mobile crane, 35 tons
Engine power	119 KW (160 HP)
Boom's length	9.8 m to 31 m (32 ft to 102 ft) (available and customizable jib)
Hauling	From 1 to 7 wires
Max. working distance	28 m (92 ft)
Available languages	French, English, Spanish ...
Specific functions	Replay, to re-watch a performed action. Real-time weather conditions' adjustment. Integrated tutorial.
Recommended option	Instructor station, to analyze results in detail. Flagman station, to allow slingers and crane operators to work in team.

PEDAGOGICAL AIMS

The whole learning develops around 4 main pedagogical axes: controls familiarization, LMI set-up, mobile crane mastering and handling work scenarios.

By repeating the several modules and exercises, learn how to:

- ✔ Carry out a pre-inspection, position the loader according to the template, rise or lower
- ✔ Get acquainted with the mobile crane's main controls and learn how to master the balances
- ✔ Carry out a pre-inspection and learn how to set up the mobile crane and its LMI
- ✔ Set up the hauling and use the jib
- ✔ Unload a truck and place the loads at the intended spots
- ✔ Adopt a safe, precise and efficient work practice through continuous repetitive tasks
- ✔ Move loads at different levels in a building
- ✔ Work on long or voluminous loads
- ✔ Master the movements' precision

Your trainees will learn in a completely safe way thanks to high-fidelity simulation, adjustable in real-time and allowing to store all the results.

Practiced with different weather conditions (wind, storm, rain, fog...), these modules and exercises only have one objective: mastering the machine.

Non contractual pictures

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