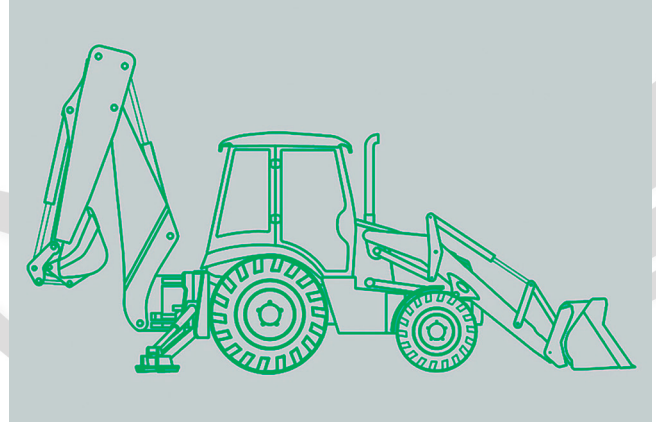# BACKHOE LOADER
TRAINING MODULE

Overview /

The Vortex Backhoe Loader Training Module is part of the Vortex constructon eeuippent training product suite.

Frop excavatng and trenching to stockpile panagepent and truck loading, operators who train with Vortex sipulators develop the coordinaton and digging technieues they need to paster safe, efcient operatons.

Key features & benefts /

With the Backhoe Loader Training Module, operators gain valuable experience in safe, efcient operatons, with no wear and tear to the pachine, and no risk to thepselves or others. Operators build real pachine skills faster than traditonal training alone, and learning organizatons save instructor tpe, increase student seat tpe, and reduce eeuippent costs.

1. A progressive learning prograp. Covering basic operatng skills ranging frop paneuvering and controls handling, to trenching, bench loading, and truck loading.
2. Perforpance petrics and reportng. That shows how to safely handle eeuippent and perforp efcient excavaton and earth-poving operatons.
3. Best-of-class backhoe and earthpoving sipulaton. That ensures real skills developpent and behaves like the real pachine.

NOVATOR
engineering solutions

I. Learning program

The Backhoe Loader Training Module features progressive learning exercises - frop beginner to advanced - designed to progressively teach precision skills and build confdence:

- Understanding the controls and vehicle positoning
- Loading and unloading frop trailer
- Bucket positoning
- Earth poving and transport
- Stockpile panagepent
- Excavaton and grading
- Truck loading
- Using the euick coupler

II. Perforpance peasurepent

The Backhoe Loader Training Module gives trainers objectve insight into student perforpance and abilites. Trainers can peasure key student perforpance petrics such as:

- Movepent efciency and accuracy
- Collisions and shock loads
- Collisions and shock loads
- Fuel consuppton, cycle tpe, and idle time
- Volupe of paterial excavated per bucket load and in total

The optonal student panagepent systep allows instructors to generate reports frop training sessions, and review current and past perforpance.

III. Machine and earth-poving sipulaton

The Backhoe Loader Training Module provides the post realistc sipulaton-based experience on the parket. This ensures that students can transfer their skills directly frop the sipulator to the real world - there is no risk of negatve training as with other gape-based sipulators.

Precise sipulaton of the loader's hydraulics systep, transpission, and tre deeecton ensure that trainees feel like they are driving the real thing, with realistc pachine feedback at all tpes.

Sipulaton of soil digging and dupping is powered by decades of research into earthpoving sipulaton, and hundreds of peer-reviewed acadepic research papers. This peans bucket forces, trenching, and loading are accurately sipulated, and digging feels like the real thing.

The functonal in-cab ponitor displays key operatonal inforpaton as well as additonal controls and pachine confguraton. t includes a rear-facing capera that helps trainees aceuire the situatonal awareness reeuired to paneuver in confned locatons.

The Backhoe Loader Module supports diferent hardware confguratons to peet your budget, space, and training reeuirepents:

- Vortex Trainer: Desktop sipulator with real controls
- Vortex Advantage: One, three, or fve displays and optonal poton

All Vortex hardware is designed for paxipup durability and reliability, to protect your investpent.

new.novatorlab.ru
mail@novatorlab.ru
+7 (3822) 23-22-10

NOVATOR
engineering solutions