

AVOPSIM MANUAL

Snow Removal

4 articles · Complete website edition

Includes all article text, tables and available illustrations. Videos and interactive resources are linked. Printed page numbers restart with each article. Use the clickable contents or PDF bookmarks to navigate.

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Snow Removal

Snow Removal

Plows, brooms and blowers on your own runways and aprons, in the weather you choose.



Program overview

Winter equipment is the hardest fleet to train on. It is only used for part of the year, the combinations are long, and the conditions that matter are the ones you cannot schedule. AVOPSIM reproduces your winter units with their specialist controls on your runways and taxiways, with snow, ice, fog and night set per mission, so recurrent training happens in September rather than during the first event.

Program at a glance

Status	Subscription program, on top of the AVOPSIM integration
Vehicles	Plow and broom units, blowers and large tractors, modeled to your fleet
Environment	Your airfield in snow, ice, fog and night
Stations	Driving station or full cab with vehicle-specific controls
Missions	Clearing scenarios in the Mission Editor
Season	Any month of the year

In this manual

- **Training exercises:** the mission types instructors can assign, repeat and score.
- **Running a mission:** how a mission is set up, driven and scored.
- **Features and benefits:** what the program adds to your training.

Every program runs on the same **digital twin**, **stations** and **instructor tools**.

Snow Removal

Training exercises

Each item is a mission type your instructors can assign, repeat and score. All of them run on your own airfield, and all of them can be built or adapted in the [Mission Editor](#).



Snow-covered runway on the digital twin

Mission types

Runway clearing

Plow, broom and air blast in a single pass.

Long combinations

Handling and turning a tractor with towed equipment.

Formation work

Clearing patterns with other units.

Reduced traction

Braking and cornering on contaminated surfaces.

Lights and signs

Clearance from edge lights and signage while clearing.

Airfield closures

Working around active and closed runways.

Deicing

Aircraft deicing has its own program. See [Deicing operations](#).

Night and blowing snow

Low visibility on the runway.

Summary

Exercise	What is practiced
Runway clearing	Plow, broom and air blast in a single pass.
Long combinations	Handling and turning a tractor with towed equipment.
Formation work	Clearing patterns with other units.
Reduced traction	Braking and cornering on contaminated surfaces.
Lights and signs	Clearance from edge lights and signage while clearing.
Airfield closures	Working around active and closed runways.
Deicing	Aircraft deicing has its own program. See Deicing operations.
Night and blowing snow	Low visibility on the runway.

Running a mission

A snow removal mission follows the standard AVOPSIM flow: assign, drive, track, score. See [Running a training session](#) for the general session checklist.

1. The instructor sets season, precipitation, visibility and surface contamination, plus any aircraft or vehicle traffic.
2. Operators drive the modeled winter units with the specialist controls of each vehicle: blade, broom and blower.
3. Runway and taxiway lighting, signage and hold points are those of your airport, so route discipline is trained at the same time.
4. Missions score coverage, clearance from lights and signs, hold point compliance and coordination with other units.

After the mission

Results are recorded in the [Examiner Console](#). Review the violation log with the trainee and use [scenario replay](#) to repeat any situation that went wrong.

Features and benefits

Feature	Benefit
Off-season training	Recurrent training in any month, not during the first event.
No equipment tied up	Winter units stay ready for service.
Consistent standards	Every operator runs the same clearing pattern the same way.
Specialist controls	Blade, broom and blower modeled per unit.
Full cab option	Tier 3 stations fit the levers and consoles of your equipment.
Radio ready	Coordinate with a virtual controller during clearing operations.

From the digital twin



Snow-covered runway on the digital twin



Winter units at the apron with the control tower



Clearing the apron in low visibility

What comes with every program

- **1:1 digital twin.** Your airfield, signage, lighting and buildings, reproduced from real-world data.
- **Microsoft Flight Simulator 2024 engine.** World, weather and physics maintained by Microsoft and Asobo.

- **Modular and scalable.** Add programs, vehicles and stations as you go, from desk station to full cabin.
- **Turn-key delivery.** Hardware, software, installation, instructor training and one year of support.