LOMINGO INTERNATIONAL

ENE GOOD PRACTICE

Submitted by Lomingo International d.o.o. (Serbia) on the ENE template

Element	Description
Title*	Drone facade and solar panel cleaning: a new green occupation for licensed drone pilots in the Balkans
Name of the VET Provider	Lomingo International d.o.o., Belgrade, Serbia
Thematic domain	**Green** (safer building maintenance and clean solar panels), **Innovation** (a new type of course, the first in the region) and **Entrepreneurial** (graduates start their own cleaning services).
Introduction*	Facades, roofs and solar panels are usually cleaned with scaffolding, aerial lifts or rope access. This work at height is slow, expensive and among the riskier jobs in building maintenance. At the same time, the number of solar installations in Serbia and the region keeps growing, and dirty panels produce less energy. Drone cleaning systems already exist, but there was no course in the Balkans that taught drone pilots how to use them safely and professionally. Licensed pilots had the flying skills but no route into this work, and building owners had no trained operators to hire. In March 2026 Lomingo International launched the first drone facade and solar panel cleaning course in the Balkans: a five day programme that turns a licensed drone pilot into a cleaning operator. The practice has been running since then, with 11 groups completed by November 2026.
Stakeholders and Partners	**Beneficiaries:** drone pilots who already hold a national or EU drone licence, building maintenance and cleaning companies that want to add drone services, and adults changing career who want to start a small business. Trainees without a licence can take a seven day option that includes preparation for the EU A1/A3 certificate and the exam. **Trainees so far** came from Serbia, Bosnia and Herzegovina, Montenegro, Slovenia and Austria. **Partners and their role:** the company S-Logistic provides its factory facade for the final day of the course, so trainees work in a real industrial setting. Practical days take place on real buildings. Groups are limited to six trainees, so that every trainee flies and cleans under the direct supervision of an instructor. The course is delivered by Lomingo instructors with professional Hongfei drone cleaning systems, Kärcher high pressure machines and water filtration systems. It is financed by participant fees, without public funding.
Impact*	**A new occupation in the region.** 66 pilots in 11 groups have completed the course so far. Graduates can offer drone cleaning as a service or work for maintenance companies, and several graduate companies have already started this work. Our best examples are TeraCrew from Sarajevo (Bosnia and Herzegovina) and Panonsky from Serbia: they have cleaned many buildings in Belgrade and across Serbia, including advertising surfaces at BIG shopping centres. **Safety.** For many jobs, drone cleaning removes the need for scaffolding, lifts and workers at height, which lowers the risk of falls.

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	Community benefit. As humanitarian work, our team has cleaned churches across Serbia free of charge. **Green and economic effect.** Regular cleaning keeps solar panels producing energy, and the work is done faster and with less equipment on site. **Evidence:** course records (attendance, certificates of completion, final work on a factory facade); a public video about the course on our YouTube channel reached about 53,000 views in one year, and more than half of the viewers were outside Serbia, mainly in Bosnia and Herzegovina, Croatia, Germany and Montenegro (YouTube Analytics, September 2026); real projects done by our team, such as cleaning Hotel Ambasador in Niš and churches across Serbia.
Innovation and Success Factors*	**Innovation.** The course joins two fields that were separate in the region: regulated drone flying and building maintenance. It follows real working scenarios: one day of theory (equipment, safety procedures, mission planning, rules for flying in built-up areas), practical days on real buildings where trainees wash roofs, gutters, facades and solar panels next to an instructor, and a final day washing a factory facade in an industrial setting, under the same conditions as paid work. The same systems can apply protective coatings and paint, which widens the range of jobs. **Conditions for replication:** trainees who already hold a drone licence, or a route to get one; access to real buildings and an industrial site for the final day; investment in professional cleaning drones, pumps and water filtration; instructors with field experience; knowledge of national rules for flying in built-up areas; insurance for practical work.
Constraints*	**Low awareness.** Online searches for drone facade cleaning in the region were close to zero, so demand had to be created. We addressed this with videos that show the work, news articles and social media reels with graduates. **Entry requirement.** Many interested people had no drone licence. We added a seven day option with A1/A3 preparation and the exam. **Equipment and practice sites.** Industrial cleaning drones are expensive and real facades are needed for practice. We use our own equipment and real buildings, and our new training centre will have a dedicated cleaning area with a facade wall and solar panels. **Language.** Trainees from outside the former Yugoslav region need English, so the course is also delivered in English. **Weather.** Wind and rain limit flying days, so practical days are planned with flexibility.
Lessons learned*	Practice on real buildings is what makes graduates ready for work; simulated tasks alone are not enough. Showing the work on video creates demand for a new occupation faster than written advertising. Drone cleaning is a trade, not only a flying skill: safety at height, water and pressure systems, client communication and pricing matter as much as piloting. A short, intensive format of five days suits adults who already work.

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	A clear entry route (licence first, or licence included in the course) prevents drop out and frustration.
Replicability and/or up-scaling	The model can be transferred to any country with growing solar capacity and many multi storey buildings. It needs licensed pilots, partner buildings and an industrial site, financing for equipment, and a theory module adapted to the national rules for drone flights in built-up areas. Our next steps: a dedicated cleaning area in our new 3,000 m² drone training centre in Belgrade, which will be completed in early 2027; more groups in English for trainees from the EU and further; cooperation with VET providers in other countries that want to add the course to their offer.
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URL of the practice	https://www.lomingointernational.com/en/drone-facade-cleaning-course/ https://www.lomingointernational.com/en/news/first-drone-cleaning-course-balkans/
Related resources that have been developed	Course programme with theory and practical modules; certificate of completion; video of the course: https://www.youtube.com/shorts/XLn-dPig25k, photo gallery on the course page; reels with graduates on Instagram (@obuka_za_dron_pilote).

*Mandatory fields are marked with **