



KYRENIUS Pekka

キュレニウス・ペッカ

Short introduction to JNSA

2026-03-05

Born 30.12.1960

Doctor of Science (Technology)

CTO at VSS Shelter systems Limited
(Chairman of the board)

Position in civil defense shelter context

- Retired from Aalto University 2025 September, laboratory manager, responsible technical manager for Aalto 5 000-person large rock CD shelter
- Aalto University delegate in ISO Standard organization technical committee ISO/TC 292/WG 10 "Preparedness", preparing standard series ISO 22359:2024 Security and resilience — **ISO 22359:2024 Security and resilience — Guidelines for hardened protective shelters**
- ISO delegation nomination for years 2026-2028 by Dean of School of Engineering (Aalto University)
- I teach at the Emergency Services Academy Finland for the course of "Inspectors for Civil defense shelters"
- I have two Finnish certifications for Civil defense shelters inspector, from Eurofins and FISE, independent certification bodies
- I am an Qualification Board member for the FISE Civil Protection Inspector certification
- I have advised the Finnish ministry of the interior (INTMIN), rescue department, for the 2023 survey "Current status of civil defence shelters in Finland", [Publications of the Finnish Government 2023:57]
- I was invited by the INTMIN to be a member of the technical division that helped to formulate the publication "How to maintain and inspect civil defense shelters: General guide" [Publications of the Ministry of the Interior 2026:7]
- I am the first Finnish doctor that defended a doctoral thesis on CD shelter technology and regulation
- I have advised City of Helsinki, City of Helsinki Rescue department, The Western Uusimaa fire and rescue services (Rescue Department)

VSS Shelter systems Ltd

(Limited liability company registered at the Finnish Trade Register)
Helsinki, Finland

- Date of registration 22.07.2025
- Business ID: 3547055-5
- Small startup
- CEO Dr. Liisa Savunen (retired Strategy Director at Academy of Finland)
- CTO Dr. Pekka Kyrenius (retired laboratory manager at Aalto University)

Focus areas

- Regulatory inspections of Finnish Civil Defense shelters, all classes (K, A-C, S1-S6, rock shelter)
- Functional testing of shelter life support systems
- Evaluation of shelter weapons effect mitigation
- Consulting & design services for civil defence policy & projects, city planning, CD shelter design, CD shelter life cycle management, renovation and decommissioning.
- Training of shelter operators
- Provide courses for shelter related topics
- Key note briefings and sessions, guest speaker assignments

Memberships & Board positions in professional associations

Memberships in professional associations

- RIL (The Academics of the built environment)
- BY (The Concrete Association of Finland)
- MTR (The Finnish Tunneling Association MTR-FTA)
- SPPL (The Finnish Association of Fire Officers, Preparedness and civil defence division)
- THS (The Finnish Society for History of Technology)
- SPT (Association for Protection, Rescue, Security and Safety, division of the Finnish Chemical Society SKS).

Board positions

- HVSSY (The Civil Defence Association of Helsinki), member of board
- VSS Shelter systems LTD, chairman of board
- THS (The Finnish Society for History of Technology), member of board

Hands-on, practical experience

