

OFFICIAL PARTICIPANT HANDBOOK

Vanguard Expo Handbook

Category Code: HSQ-IN01

ELIGIBILITY

Classes VI - XII

TEAM COMPOSITION

1 - 2 Students

EVENT LOCATION

DAV Public School, New Shimla (HP)

Images, illustrations, renders, diagrams and photographs used in this document are for representation purposes only.
Competition layouts, equipment, schedules, judging procedures and event arrangements may change before the event.
Participants should always refer to the latest official communication released by Himalayan STEM Quest.

1. Competition Scope

Competition Overview

Vanguard Expo is an open exhibition and engineering showcase. Student teams present original working prototypes, research papers, and technical logbooks addressing alpine safety, disaster mitigation, or rescue engineering.

Problem Statement

High-altitude regions experience environmental hazards such as avalanches, landslips, and isolation. Teams are challenged to prototype a functional STEM solution that mitigates these risks.

Objective

Design and build a functional hardware or software prototype, maintain a detailed engineering logbook throughout the design process, and defend the solution before a technical panel.

2. Guidelines & Expectations

Participant Expectations

Teams will establish an exhibition booth displaying their prototype, posters, and logbooks, and deliver presentations explaining their engineering choices.

Suggested Preparation

Document your design journey, write technical logs, refine presentation slides, and ensure your prototype is safe for indoor demonstration.

Design Compliance Note

All physical hardware or software models brought to the arena must be verified during the morning check-in and technical compliance runs. Organizers reserve the right to alter environmental configurations inside the arena to ensure testing integrity.

3. Event Rules & Safety

General Competition Rules

- All referee calls and judge panel evaluations are final and absolute.
- Only registered student members are allowed inside active lanes and pit crew blocks.
- No wireless configuration inputs may be sent to rovers or computing models during run intervals.
- School coordinators must remain present in the campus boundaries during the entire quest.

Code of Conduct

HSQ is a collaborative ecosystem. Respect for coordinates, school properties, and competitors is mandatory. Sharing spare gear or troubleshooting help is highly encouraged inside the pit area.

Critical Safety Regulations

- Physical emergency stop controls must isolate battery supplies instantly.
- Protective glasses must be worn in active testing grid lines.
- Battery handling is restricted to safe, fire-insulated pads in the pit block.

Support Contact

coordinator@himalayanstemquest.org

Evergreen Clause

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