

Design for Safety Excellence Award 2025
Application Form
Closing date of submission (31 March 2025)

A. Entrant Information

Project title: _____

Contact Person: _____

Company name: _____

Correspondence Address: _____

Contact No. : _____ Email : _____

Best Safety Engineer Award

Would you like to nominate your engineer to enter this competition? ☐ Yes* ☐ No

Name of Engineer In Charge: _____

Title: _____

Contact No. : _____ Email : _____

** Please submit a one-page description explaining the engineer's contributions to the project for nomination. The nominated engineer must represent the company when giving the presentation for the shortlisted entry.*

B. Project Information:

Please submit a comprehensive proposal (in MS Word/PDF/PowerPoint format) that clearly demonstrates how your project aligns with the specified judging criteria. Each criterion should be addressed with detailed text, layouts, images, construction plans, or any relevant materials that support your application.

Submission Requirements

The entire submitted proposal should not exceed 10 pages and based on the following structure.

Structure of the Proposal

1. Introduction

A brief overview of the project and its objectives

2. Judging Criteria

Please explain how your project best fits the following five judging criteria. Each criterion should be explained in no more than 250 words.

Criterion 1: Scalable Safety element

Ensure comprehensive safety throughout the project lifecycle, adaptable to various sizes and complexities, integrating current and future technologies, enabling rapid deployment, and managing risks effectively.

Criterion 2: Design for Safety

Implement innovative technologies to enhance safety, consider cost implications of scaling, evaluate effectiveness of designs on existing safety measures, prioritize preventive measures to mitigate risks, thoroughly identify and analyze potential hazards, and select durable, reliable materials.

Criterion 3: Engineering Element

Develop robust designs considering environmental stressors and load variations, seamlessly integrate safety features without compromising functionality, ensure precision with safety margins, and balance simplicity and complexity while maintaining functionality and safety.

Criterion 4: Engineer Input

Identify and address safety-related problems, contribute creative safety improvements, collaborate effectively with teams, communicate technical and safety concepts clearly, and make sound safety-impacting decisions.

Criterion 5: Designer & Contractor Design Improvement

Enhance safety through testing and validation, ensure practical improvements within constraints, improve user experience to reduce errors, and adapt designs for future technological and safety standard changes.

3. Conclusion

Summarize how the project aligns with the criteria and suggest next steps

4. Appendices

Additional photos, data, or supporting documents as needed

**Please refer to Appendix for more details of judging criteria.*

C. Declaration

I certify that all information provided in this application is true, complete, and accurate. If any information is untrue, incomplete, or inaccurate, the Hong Kong Institution of Engineers (HKIE) reserves the right to revoke application approval. No refunds will be made for the award application fee.

I agree that information provided in this application may be used and/or disclosed by HKIE to relevant parties to process the application.

Signature : _____ Date : _____

Name : _____ (in block letters)

- All information submitted will be treated as strictly confidential.
- The Hong Kong Institution of Engineers has sole discretion right of the Award and the decision of the Panel of Judges should reserve as final and no correspondence will be entered into.
- The personal data provided by means of this application will be used solely for the Award. In accordance with Sections 18 and 22 and Principle 6 of Schedule 1 of the Personal Data (Privacy) Ordinance, you have the right to request access to and request the correction of the data provided by you. You may contact the Institution for these purposes, at the address: 9/F Island Beverley, 1 Great George Street, Causeway Bay, Hong Kong.

Please submit the contribution description of the engineer for the Best Safety Engineer Award and the project proposal via email: ssc_dsea2025@hkie.org.hk by 31 March 2025.

Short-listed entrants will be notified for project presentation in mid-April.

Appendix: Judging Criteria

Assessment Criteria	Scoring Considerations
1. Scalable Safety Element (20%)	- <u>Comprehensiveness Safety Impact</u>: Address the safety concerns throughout the project's lifecycle - <u>Adaptability</u>: Evaluate the scalability to different project sizes and complexities - <u>Technology Integration</u>: Integrate with the existing technologies and systems and incorporate future technological advancements - <u>Implementation Speed</u>: Streamline the processes that enable rapid deployment - <u>Risk Management</u>: Describe how are risks assessed and managed under different scaled projects
2. Design for Safety (20%)	- <u>Innovative Technology</u>: Provide innovative approaches or technologies to enhance safety - <u>Cost and Budget Consideration</u>: Describe whether the scaling process involve significant additional costs or not

	- <u>CP Ratio</u>: Describe how effectively do these designs upon existing safety measures - <u>Preventive Measures</u>: Prioritize the prevention measures integrated into the design to mitigate identified risks - <u>Hazard Identification and Analysis</u>: Evaluate the comprehensiveness on risk assessment thoroughly by identifying potential hazards - <u>Material Selection and Durability</u>: Choose materials with long-term durability and reliability under expected conditions
3. Engineering Elements (20%)	- <u>Design Robustness</u>: Adopt robust and resilient design after considering the potential stressors such as environmental factors, load variations - <u>Integration of Safety Features</u>: Incorporate the design without compromising the system's functionality seamlessly - <u>Precision and Accuracy</u>: Show tolerances and margins of safety incorporated into the design - <u>Simplicity and Complexity Balance</u>: Strike an appropriate balance between simplicity and complexity without sacrificing necessary functionality or safety
4. Engineer Input (20%)	- <u>Problem-Solving Skills</u>: Ability to identify, analyze and address the proposed solutions by engineers regarding safety-related problems - <u>Creativity</u>: Ability to contribute creative ideas to improve safety measures - <u>Collaboration and Teamwork</u>: Ability to integrate input after cooperating with other team members, stakeholders, or interdisciplinary teams - <u>Communication Skills</u>: Ability to communicate technical concepts and safety considerations to others, even to non-technical stakeholders - <u>Decision-Making and Judgment</u>: Ability to demonstrate sound judgment in making decisions that impacted safety
5. Designer & Contractor Design Improvement (20%)	- <u>Testing and Validation</u>: Testing and validation improvements to achieve the desired safety resulting from simulations, prototypes, or real-world trials outcomes - <u>Implementation Feasibility</u>: Practical and feasible improvements when implemented within existing constraints such as budget, time, and resources - <u>User-Centric Enhancements</u>: Improve the user experience and usability, making the design safer and more intuitive for end-users by reducing the likelihood of user error - <u>Adaptability and Futureproofing</u>: Improvement of long-term safety and effectiveness which is adaptable to future changes or upgrades in technology and safety standards