

Results of the 2022 Periodic SHE Risk Assessment

Purpose

To achieve the intended outcomes of the SHE management system (Simmtech.Inc) By identifying and evaluating risks in Simmtech, we improve our ability to identify opportunities and threats and continuously improve stakeholder confidence, loss prevention, and incident management.

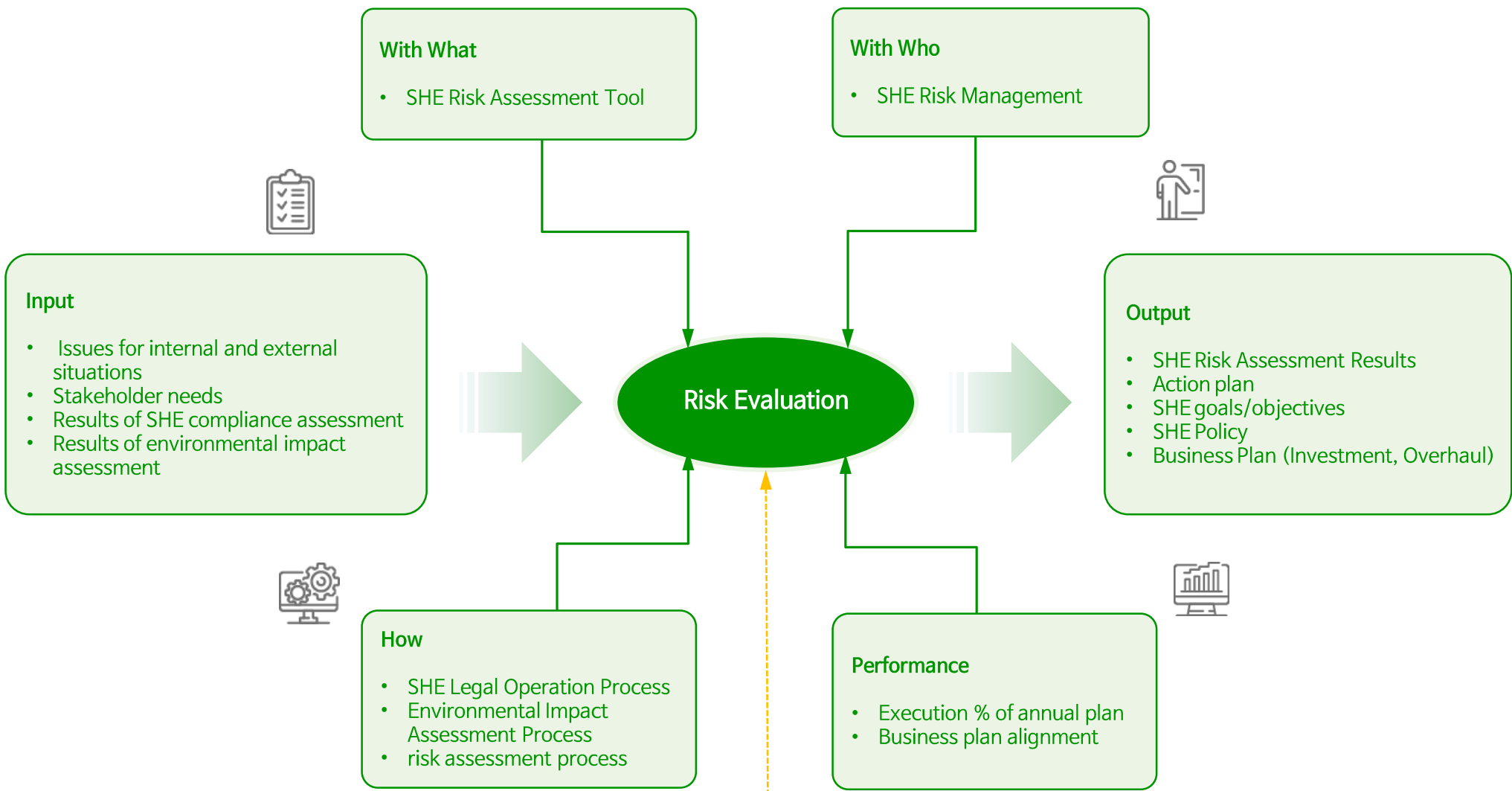
Range of ApplicationSimmtech & Simmtech HoldingsTime2022. 12. 09 ~ 2022. 12. 23 (Once/Year)

StandardOverall SHE management system for printed circuit board manufacturing (ISO 14001:2015, ISO 45001:2018)

Assessment Result13 action plans total

Classification	2021	2022	Remarks (2021 vs 2022)
Subject of Evaluation	<ul style="list-style-type: none"><li>95 departments (17 action plans)</li><li>- Manufacturing 26, Non-manufacturing 69</li></ul>	<ul style="list-style-type: none"><li>100 departments (13 action plans)</li><li>- Manufacturing 26, Non-manufacturing 74</li></ul>	<ul style="list-style-type: none"><li>4 fewer action plans</li><li>- Manufacturing 12, Non-manufacturing 1</li></ul>
Main Issue	<ul style="list-style-type: none"><li>Responding to the Total Air Pollutant Discharge Elimination System</li><li>Non-operation due to failure of air prevention facilities</li><li>Scrubber dilution air inflow</li><li>Excessive emission of pollutants from manufacturing facilities</li><li>Mixed waste discharge</li><li>Spread of infectious diseases such as COVID-19</li><li>Implementation of the Serious Accident Punishment Act('22. 1. 27)</li></ul>	<ul style="list-style-type: none"><li>Application for a site subject to a integrated permit</li><li>Mixed Waste Discharge</li><li>Strengthening the Ministry of Environment's map inspection</li><li>Mandatory use of ECOLAB under the measurement agency contract management system</li><li>Limitation of net facility capa due to expansion of wet facilities</li><li>Review of submission of hazardous risk prevention plan</li><li>Compliance with the newly enacted Act on the Punishment of Major Accidents</li></ul>	<ul style="list-style-type: none"><li>1 environmental law amendment response</li><li>- Integrated Environmental Management statute</li><li>Complementing related issues in each department</li><li>Strengthened on-site inspections of emission facilities and prevention facilities</li><li>Identify the work in advance through SHE review (whether the hazardous risk prevention plan is applicable)</li></ul>
Risk	<ul style="list-style-type: none"><li>Legal Violations: Waste, Environmental Integrity Act</li><li>- Environmental Integration statute response (~2023.06)</li><li>- A1 adsorption tower THC emissions exceeded permit limits</li><li>Exceeds operating costs: Cost of improving air prevention facilities</li><li>Penalties for business owners, management personnel in the event of a major disaster</li></ul>	<ul style="list-style-type: none"><li>Legal Violations: Waste, Environmental Integrity Act</li><li>- Environmental Integration Act Response (~2023.06)</li><li>Exceeding operating costs: Cost of improving environmental prevention facilities</li><li>Punishment of business owners and managers in case of major disasters</li></ul>	<ul style="list-style-type: none"><li>Response to the Integrated environmental management statute</li><li>Mixed Waste Discharge</li></ul>
Action Plan	<ul style="list-style-type: none"><li>Create an Integrated Environmental Management Plan</li><li>Strengthen waste separation education and inspection</li><li>Anti-Atmospheric Facility Improvement Activities</li><li>- Install additional scrubbers for ventilation</li><li>- Extended Unit A1 activated carbon change interval (Twice/month)</li><li>- Replace the HDI inner layer DF dip coarter fixture</li><li>Periodic checks to ensure compliance with health and safety obligations</li><li>Standardize health and safety obligations</li></ul>	<ul style="list-style-type: none"><li>Create an Integrated Environmental Management Plan</li><li>Strengthen waste separation education and inspection</li><li>Expansion of pure manufacturing room</li></ul>	<ul style="list-style-type: none"><li>5 fewer action plans</li><li>- Increased inspections of air prevention facilities</li><li>- Increased inspections of waste collection sites</li></ul>

SHE Risk Management Process



Related & Support

- MBR/QBR/Board/DR/Weekly meeting/Daily meeting
  - Sales meeting/product power meeting/internal competency meeting, etc.
  - Establishment of executive KPIs
  - Field cost / standard cost
- General budget / capital budget / labor cost management
  - Billing estimation computerization
  - Competitor analysis
  - Customs duty refund
- Non-management materials
  - ASP Management