

RYOSUKE TAMAI

Senior EH&S and Process Safety Consultant

Japanese: Native | English: Advanced

1. PROFESSIONAL SUMMARY

Senior EH&S and Process Safety professional with nearly 50 years of chemical-industry experience, including 38 years with multinational chemical companies and more than 10 years as an independent consultant. Combines hands-on process engineering and plant-management experience with corporate/regional EH&S leadership and current PSM consulting, enabling process-safety and regulatory requirements to be translated into practical, sustainable plant-level implementation. Extensive experience includes CCPS Risk Based Process Safety (RBPS), EH&S regulatory compliance, process hazard analysis, auditing, incident investigation, loss prevention, plant operations and implementation of global EH&S standards in Japanese operations. International experience includes regional responsibilities within Dow Chemical Pacific and EH&S assessments at manufacturing sites and offices in 11 countries.

2. CORE EXPERTISE

Process Safety & Risk Management

- CCPS Risk Based Process Safety (RBPS) / Process Safety Management (PSM)
- PSM/RBPS management-system assessments and gap analysis
- Process Hazard Analysis (PHA) and risk assessment; HAZOP, LOPA and FMEA
- Process safety and loss prevention assessments
- Development of PSM/RBPS assessment protocols and questionnaires
- Training on process safety management elements
- Incident investigation, root-cause analysis and process-safety improvement programs

Critical Safety Programs

- Control of Hazardous Energy (Lockout/Tagout); Energy Isolation
- Equipment and Line Opening; Hot Work; Confined Space Entry
- Fall Protection / Work at Height; Safe Work Permit systems; Contractor Safety

EH&S Compliance & Management Systems

- EH&S regulatory compliance auditing and management-system gap assessments
- Identification and assessment of personal and process safety hazards
- Development and implementation of corrective and preventive actions
- Implementation of global EH&S standards at Japanese manufacturing sites
- Safety observation/intervention programs and employee/contractor safety management

Business Integration & International EH&S

- EH&S due diligence associated with acquisitions and post-acquisition integration
- Assessment of manufacturing and supply-chain operations
- Application of multinational corporate EH&S requirements in Japanese operations
- Cross-cultural EH&S assessments and management within Asia-Pacific operations

3. PROFESSIONAL EXPERIENCE

EH&S compliance and Process Safety Consultant | 2016 – Present

Provide EH&S, process safety and loss prevention consulting services to multinational and Japanese companies, both through direct consulting engagements and under service agreements with professional EH&S compliance assessment organizations.

- Long-term Manufacturing & Engineering and EH&S integration support under a service agreement associated with a Dow Chemical Japan business acquisition. Scope includes personal safety, process safety, loss prevention and integration of EH&S management requirements. Assignment commenced in 2016 and continues as of October 2026.
- EH&S regulatory compliance auditing services under a service agreement with EH&S compliance assessment companies. My role focuses particularly on site-level EH&S regulatory compliance and operational practices. Assessments have covered a diverse range of operations, including electrical-component manufacturing, machinery assembly, chemical and pharmaceutical manufacturing, and data centers.
- Process Safety Management implementation support based on CCPS principles for a major Japanese chemical company from December 2020 through 2026. Scope includes development of PSM/RBPS assessment questionnaires and reviews of the assessment results, training on RBPS elements; incident and root-cause investigations, and development of criteria of PS incident reporting. HAZOP-based hazard and risk assessments covering a range of process chemistries and manufacturing processes is carried out at other company.

4. SELECTED CAREER VALUE

- Hands-on engineering and plant-management background combined with corporate/regional EH&S leadership and current PSM consulting.
- International EH&S assessment experience across 11 countries in Asia-Pacific.
- Ability to bridge multinational corporate EH&S/PSM expectations with Japanese regulatory and operating practices.

5. PREVIOUS PROFESSIONAL EXPERIENCE

Japan SH&E Manager — Cabot Japan K.K. | Apr 2011 – Mar 2015

Responsible for Safety, Health and Environmental management in Japan.

- Managed EH&S activities at two manufacturing sites in Japan.
- Implemented global corporate EH&S standards at local manufacturing operations.

Responsible Care Leader — Dow Chemical Japan | Nov 2009 – Mar 2011

Led Responsible Care and EH&S activities for Dow Chemical Japan.

Kinu Ura Plant Manager & Manufacturing and Engineering Leader — Dow Chemical Japan | Mar 2007 – Nov 2009

Responsible for plant operations and Manufacturing & Engineering leadership at the Kinu Ura site.

- Responsibilities included manufacturing performance, EH&S, maintenance, engineering, personnel management and overall plant operations.

Purchasing Manager — Dow Chemical Japan | Mar 2004 – Feb 2007

Managed purchasing activities supporting Dow Chemical Japan operations.

Supply Chain Manager — Dow AgroSciences / Dow Chemical Japan and Dow Korea | Mar 1999 – Feb 2004

Managed supply-chain activities supporting Japanese and Korean operations, including agricultural chemical businesses.

- Conducted safety, environmental and quality audits of contract manufacturers producing agricultural chemicals and formulations.
- Participated in EH&S due-diligence and integration assessments associated with major Dow acquisition activities, covering manufacturing and supply-chain operations.

Information Systems Manager — Dow Chemical Pacific, Hong Kong | Dec 1996 – Feb 1999

Managed Information Systems activities within Dow Chemical Pacific, working across different nationalities, cultures and business operations in the Asia-Pacific region.

Safety & Loss Prevention Director — Dow Chemical Pacific | Jun 1995 – Nov 1996

Held regional responsibility for safety and loss-prevention activities within Dow Chemical Pacific.

- Conducted EH&S assessments at manufacturing sites and offices in 11 countries.
- Supported implementation and improvement of safety and loss-prevention programs across diverse operations and cultures.

Plant Manager — Kinu Ura Epoxy Resins Plant | Sep 1991 – May 1995

Responsible for operation and management of the epoxy resin manufacturing plant, including production, process safety, maintenance, engineering, personnel management, environmental performance and EH&S compliance.

Plant Manager — Kinu Ura Polyol Plant | May 1990 – Aug 1991

Responsible for manufacturing operations, personnel, maintenance, engineering and EH&S performance of the polyol plant.

Production Engineer — Kinu Ura Epoxy Resin Plant | May 1984 – Aug 1990

Engineering and production responsibilities associated with epoxy resin manufacturing, including process engineering, process control, production operations, maintenance, capital projects and continuous improvement.

Design, Process & Construction Engineer — Dow Chemical Japan Epoxy Project | Jul 1982 – Apr 1984

Participated in the design, construction and start-up of a grassroots epoxy resin manufacturing plant.

- Responsibilities included engineering design, project execution, construction support, commissioning and preparation for manufacturing operations.

Process Engineer — Dow Chemical USA, Freeport, Texas | May 1980 – Jun 1982

Two-year assignment in Process Engineering and the Epoxy Department at Dow Chemical's Texas Division.

- Work included process simulation, safety valve design, process engineering and project execution.

Lab Engineer — Dow Chemical Japan, Technical Service & Development | Jun 1979 – Apr 1980

Provided technical and laboratory support within the Technical Service & Development organization.

Engineer — Dow Chemical Japan, Manufacturing & Engineering | Mar 1977 – May 1979

Supported Manufacturing & Engineering activities related to agricultural chemical contract formulation.

6. EDUCATION

Waseda University, Tokyo, Japan

Master's Degree — Applied Chemistry, Apr 1975 – Mar 1977

Bachelor's Degree — Applied Chemistry, Apr 1971 – Mar 1975

7. LANGUAGES

Japanese: Native — written and spoken | English: Advanced — written and spoken