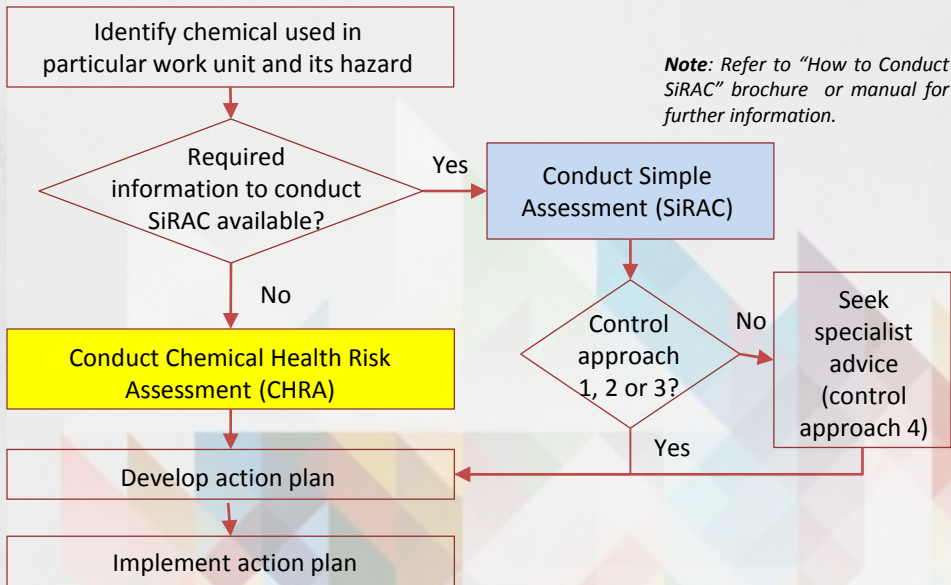


Selection of Control Approach



Simple Risk Assessment and Control for Chemicals (SiRAC)

What is SiRAC?

Do you want to know more about SiRAC?

Scan here to download the manual



VIEW NOW



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Chemical Management Division
Department of Occupational Safety and Health (DOSH)

Regulations 9, USECHH 2000

“An employer **shall not carry out any work** which may expose or is likely to expose any employee to any chemical hazardous to health **unless he has made a written assessment of the risks created by the chemical** to the health of the employee

Assessment of Risk to Health

There are **two (2) approaches of assessment:**

- **Full Assessment** – using method of “Chemical Health Risk Assessment” (CHRA); and
- **Simple Assessment** – using method of “Simple Risk Assessment and Control for Chemicals” (SiRAC)

Simple Assessment

- **Alternative** for conducting a chemical risk assessment.
- A process of grouping workplace risks into control bands based on combination of hazard and exposure information (“**Control Banding**” approach).
- **Simplified** methodology.

Scope and Application

SiRAC **applies to chemicals hazardous to health in solid and liquid forms that are supplied for use at the place and does not** apply to the following types of chemical:

- Carcinogenicity Category 1; or
- Mutagenicity Category 1; or
- Respiratory Sensitizer Category 1

Examples:

- Wood dust
- Fume released from molten metal

As listed in First Schedule under the Environmental Quality (Scheduled Wastes) Regulations 2005 or as amended.

Chemical classified as:

Gases

Examples:

- Hydrogen Sulphide (H₂S)
- Ammonia (NH₃)

Process generated dust and fumes

Organic dust

Examples:

- Grain dust
- Cotton dust
- Paddy husk dust

Scheduled waste

SiRAC **only cover exposure of chemicals hazardous to health through inhalation and dermal.**

Person to Conduct SiRAC

The person to conduct SiRAC should:

- have adequate knowledge, training and expertise in understanding hazard and risk;
- know how the work activity uses chemicals hazardous to health;
- have the ability and the authority to collate all the necessary, relevant information;
- have the knowledge, skills and experience to make the right decisions about the risks and the precautions that are needed;
- know how to interpret Safety Data Sheets (SDS);
- have knowledge on chemical control measures;
- know basic requirement of OSHA, USECHH Regulations and relevant guidelines;
- have knowledge on the SiRAC manual; and
- undergone SiRAC training programme by approved training providers.

Information Required to Conduct Simple Assessment

- Hazard classification and hazard statement (H-code);
- Physical form;
- Boiling point or vapour pressure for liquid;
- Operating temperature of chemicals (where applicable);
- Quantity of chemical used; and
- Total duration of exposure to the chemicals.