

ELEMENT 7

CHEMICAL AND BIOLOGICAL AGENTS



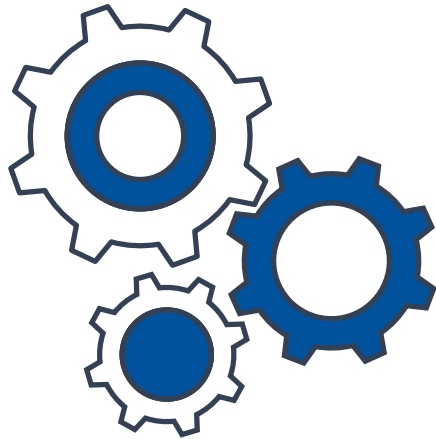
ACTIVITY

Consider the following substances and identify the associated health hazards:

- Paint
- Glue
- Pesticide
- Diesel fumes
- Synthetic mineral fibres



ACTIVITY



Consider a worker working an 8-hour shift. This worker is also using trichloroethylene (TCE) as a degreasing agent during their working day.

The worker's personal exposure to TCE vapour has been measured during the day and the table shows their exposures for different time intervals.

Activity	Exposure time – in hours (T)	Measured concentration in ppm (C)	C x T
Task 1	3	80	240
Task 2	1.5	200	300
Task 3	2	30	60
Breaks	1.5	0	0

Calculate the 8 hr TWA exposure for this worker



ACTIVITY

Consider the PPE that is made available in your own workplace.

What is it protecting you against?

How is it stored?

What training is provided in the use of the PPE?

ACTIVITY



Consider your own workplace.

What do you think is the most hazardous chemical or biological agent in your workplace?

What has been done so far to reduce the risk from this chemical or biological agent?

What further measures do you think need to be carried out to further reduce the risk?