

OHTA pre-registration self-assessment for candidates

W507 Health Effects of Hazardous Substances

The following are examples of topics covered in the course and calculations. Answers to all the following, and exam and homework questions are covered in the training course.

- What classification schemes are commonly used for carcinogens?
- What do you understand by the terms 'additive' and 'synergistic' and 'independent' effects? Give examples.
- What do you understand by the term 'sensitisation'?
- In industrial hygiene, what are the two particle size fractions that are commonly used? What size ranges do they cover?
- Why is the liver at particular risk of damage from hazardous substances? What conditions may be caused?
- What are the main objectives of xenobiotic metabolism?
- What are the main approaches to toxicity testing / evaluation that may be undertaken?
- What are the main types of epidemiological studies? What are their main advantages and disadvantages?
- What do you understand by the terms 'incidence' and 'prevalence' rates?
- Why is the concept of 'half-life' of a substance important?
- What are the health effects of exposure to diesel engine exhaust?
- What are the 4 main types of sources of information about health effects of hazardous substances?
- Describe the difference between a simple asphyxiant and a chemical asphyxiant, and give an example of each.