# Human factors and analysis of health risks

## C6

### Aim
Employees have to deal with a large variety of working demands and work-related exposures. Furthermore, technical systems and human-machine interfaces and interaction are subject to constant and sometimes rapid change. To keep people healthy and safe at work, human factors have to be assessed and managed.

Upon completion of the course, students will be able to:
- Perform ergonomic risk assessments
- Evaluate individual balances of work demands and resources
- Understand and apply concepts of human reliability and human error
- Assess human-related risk factors at work

### Contents
- Ergonomic risk assessment on complex systems
- Ergonomic workplace interventions
- Human-machine interaction
- Basics of human reliability and human error
- Concepts of risk perception and risk behavior
- Introduction to Indoor Air

### Methods
Lectures; Group work; Discussion round; Site visit

### ECTS credits
2 ECTS credits = approx. 60 hours of workload including 31 hours of on-campus lectures and 15 hours of pre-assignment and exam

### Target audience
- Students in the DAS Work+Health program
- Future and current work and health specialists
- Healthcare providers and other persons interested in work and health

### Module manager
Sven Hoffmann; University of Zurich, Epidemiology, Biostatistics and Prevention Institute

### Administration
Monika Rettké; monika.rettke@uzh.ch

### Dates and location
26–29 October 2020 in Zurich

### Fee
CHF 2,720.–

### Registration deadline
16 September 2020