



## 02 Health, safety and wellbeing

Understanding your legal, professional and ethical duties in relation to construction site and workplace safety and wellbeing, and the principles of design risk management.

Having the knowledge and skills to develop and manage appropriate strategies, processes, tools and systems, as Designers, Principal Designers, architects, businesses and employers.

### Legislative framework

- Construction (Design and Management) (CDM) Regulations 2015 (and see below).
- Health and Safety at Work etc. Act 1974 (HSWA).
- The Construction (Health, Safety and Welfare) Regulations 1996.
- The Management of Health and Safety at Work Regulations 1999.
- The Regulatory Reform (Fire Safety) Order 2005.
- Fire safety strategy and legislation.
- Work at Height Regulations 2005.
- Corporate Manslaughter and Corporate Homicide Act 2007.
- Control of Asbestos Regulations 2012.
- Personal Protective Equipment Regulations 2002.
- Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013 (RIDDOR).
- CDM Regulations (acquaintance with the terms and L153 locations)
  - Duty holders – their roles and responsibilities.
  - Advising the client.
  - Differences for domestic projects.
  - Design risk identification and management methodology.
  - The principles of prevention and their proportionate application to design.
  - Absolute and qualified duties in CDM 2015.
  - Identification of 'significant' design risks (not all risks).
  - Pre-construction information: deliverables.
  - Construction phase health and safety plan.
  - Health and safety file.
  - HSE and industry guidance.
  - Understanding of the concept of 'so far as is reasonably practicable' (SFARP) and its application.
  - Notification of HSE by client.
  - CDM identification on drawings.
  - CDM analysis methods.
  - Tracking of design risk management process.
  - Case studies and exemplar projects.

(See also 'CDM 2015: A Practical Guide for Architects and Designers' by *Paul Bussey* from <http://www.ribabookshops.com/item/cdm-2015-a-practical-guide-for-architects-and-designers/84369/>).

### The design risk management process

- RIBA Plan of Work – health and safety.
- Understanding pre-construction information.
- CDM strategy brief.

## RIBA CPD Core Curriculum: Study Notes

- Designer's duties and liabilities, concept of 'so far as reasonably practicable' (SFARP).
- Absolute and qualified duties under CDM 2015.
- Exemplar design risk management processes.
- Risk review meetings at all stages collaboratively.
- Principles of prevention: a framework for consideration of health and safety in design.
- Hazard awareness and risk identification.
- Design risk registers and analysis of significant and unusual risks/ hazards.
- Communicating risk by visual methods.
- What is not required.

### Designing for safety and health

- Constructability analysis.
- Designing to improve the long-term health prospects of workers.
- Safety issues, including temporary works.
- Health issues, including asbestos, dust and particulates, noise and vibration.
- Safe access for maintenance and repair.
- Visiting the site safely.
- Wellness accreditation systems.

### The project hazards and risks

- Hazard identification and control with respect to designers
  - Hazardous substances.
  - Physical and ergonomic hazards (noise, manual handling).
  - Biological hazards.
  - Hygiene and welfare facilities.
  - Working at heights and depths.
  - Excavations and confined spaces.
  - Site electricity (overhead, over-ground and underground).
  - Fire during construction and in use.
  - Plant/ moving vehicles.
  - Temporary works, underpinning.
  - Trespass and security.
  - Protection of the public.

### Practice management

- Employers' and employees' responsibilities.
- Risk assessments.
- Fire safety strategy and legislation.
- Electrical safety.
- COSHH.
- First aid.
- Lone working.
- Staff safety out of office – on site (CSCS) and/ or surveying.
- Managing health and safety at special events.
- Mental health. Visiting the site safely; provision and use of PPE.

### Health, safety and wellbeing accreditation systems

- Safety schemes in procurement, including CHAS, SSIP and SMAS.
- Considerate Constructors.
- Safe Contractor.
- CSCS card scheme.

## RIBA CPD Core Curriculum: Study Notes

- BS OHSAS 18001 – to be replaced by ISO 45001.
- Occupational health and safety management systems (2018).
- WELL Building Standard.

### Links to other organisations and resources

HSE, CDM Legislation and legal guidance <http://www.hse.gov.uk/Construction/>

IIRSM, Risk management advice, training and updates <https://www.iirsm.org/>

APS <https://www.aps.org.uk/>

CIC, Health and Safety Committee reports and papers <http://cic.org.uk/networks-and-committees/health-safety-panel.php>

CONIAC,- Industrywide H&S Committee guidance and papers

<http://www.hse.gov.uk/aboutus/meetings/iacs/coniac/index.htm>

DIOHAS, Architectural practice events and guidance on CDM & H&S <http://www.diohas.org.uk/>

DBP, CDM Case Studies <http://www.dbp.org.uk/>

CITB, Industry CDM Guidance <http://www.citb.co.uk/health-safety-and-other-topics/>

WELL Certified <https://www.wellcertified.com/>