If CDM is the answer, what was the question?

Paul Haxell
Chair IOSH Construction Group
Our time together

- Some History
- Some Politics
- The CDM 2015 Journey & Industry adaptation - some illustrations
EU Directive 92/57/ECC: 926 years earlier ....
Battle Of Hastings
The Productivity Challenge

UK productivity (2012=100)

'01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15
The Construction Challenge

Vision for 2025

Improve the image of the industry by inspiring young people and through a coordinated approach to health and safety and improving performance in the domestic repair and maintenance market.

People

Smart

Sustainable

Growth

Leadership

33% cost reduction
50% time reduction
50% CO₂ reduction
50-% reduction in import/ export gap
A familiar situation ..... 

• Confusion still abounds
• Many have stopped worrying about the regulations and focussed on worker well-being
• Business as usual
• Some resistance

Or encouraging signs of progress & collaboration

CLIENT PROSECUTED UNDER CDM 2015 FOR FAILING TO APPOINT A PRINCIPAL CONTRACTOR

£50,000
Back to basics: Good management process

“"It's not necessary to change. Survival is not mandatory”"

“"It's not enough to do your best; you must know what to do, and then do your best”"

CDM 2015

Plan    Manage    Monitor

Coordinate
Evolution of the Principal Designer

Level 1: Unaware
- Pre-October 2015
- Delegate of H&S responsibility, Pre-CDM 2015 inc transition

Level 2: Compliance
- Next 2 years
- Use of non-Active designers (ex-CDMC's) for PD role

Level 3: Proactive
- 1-5 years
- Active designers wanting to take on the PD role, some support

Level 4: Natural
- 5+ years
- Lead designer automatically takes on PD role, with no support
Pre Construction Phase: Design process

**Core Objectives**
- Business case
- Strategic brief
- Project Objectives
- Budget

**Support Tasks**
- Concept design
  - Structural, M&E design outlines
  - Cost information
  - Final brief

- Detail & Technical design
  - Strategy, cost & programme updates

**Preparation**
- Construction strategy incl. off site
- Health & safety strategy

**Concept**
- Construction strategy incl. sequencing
- Update Health & safety strategy

**Detail design**
Pre Construction Phase: Design process
“Occupational health is about how work and the work environment can affect employee’s health and equally how an employee’s health can affect their ability to do the job.”
## Pre Construction Phase: Health in Design

<table>
<thead>
<tr>
<th>The health hazard</th>
<th>Design Stage</th>
<th>Design option</th>
<th>Decision</th>
<th>Action</th>
<th>Owner</th>
<th>Hand over</th>
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<tr>
<td>Stage 1</td>
<td>Elimination</td>
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Design & Build CDM transition

Pre Construction  Construction
Construction Phase Plan: Highways

Project CPP

- Emergency & Accident response
  - Generic RAMS PoW Assessment
- Planned Maintenance
  - Own/Contractors RAMS
- Capital Works
  - Contractors RAMS
Multiple Principal Contractors

PC 1

PC 2

PC 3

PC 4
### Small Works: CDM Wizard App

**CDM Action Plan**

**This is a Construction Phase Plan for the following project:**

**Bathroom Refit**

**Your name/company:**
Harrell Construction

**Your email address:**
Paul.Harrell@pantho.co.uk

**Client Name:**
Mrs Brown

**Client Address:**
24 Reading Lane

**Job Address:**
Same

**What is the job associated with?**
Bathroom Refit

**Is there anything the client has made you aware of?**
Nothing

**Start date:**
1 Mar 2016

**End date:**
4 Apr 2016

**Who else is working on the job with you?**
Other trades / contractors / sub-contractors:
- Plumber
- Electrician
- Electronic House
- Joiner
- Carpenter

**Who will be responsible for ensuring the job runs safely?**
Paul Harrell

**Who will be the principal contractor?**
Harrell Construction

**How will you keep everyone on site updated during the job?**
Daily morning briefing before work starts. Face to face as changes arise.

### Organise - Health Risks

**Activity:**
Cutting, sawing, drilling, breaking out, chiselling, sanding or when sweeping up which creates harmful dust or working in a dusty work place?

**Risks:**
Health risk: Breathing in harmful construction dust leading to lung diseases such as silicosis

**You will need to:**
- Maintain good ventilation
  - Avoid creating dust
  - Use dust extraction systems
  - Dampen down or use wet cutting techniques
  - Use a vacuum rather than sweeping with a brush if possible
  - Wear respiratory protection such as a disposable face mask and make sure it has CE mark and in PPE rated (preferably PFP3)
- Avoid ‘house’ or ‘general’ dust masks as they have no ‘protection rating’ and offer you little or no protection.

**Activity:**
Lifting and handling heavy or awkward materials and equipment?

**Risks:**
Health risk: Manual handling injuries and repetitive strains such as back pain

**You will need to:**
- Think about ways to reduce the risk by:
  - Operating materials out to size
  - Splinting the load if possible
  - Ask someone to help with the lift
  - Use lifting aids (wheel barrow, hoist, sack barrow)

**Activity:**
Using hand-held vibrating tools and equipment such as drills, breakers, grinders, cut off saws,Sanders, chasers?

**Risks:**
Health risk: Permanent damage to nerves and blood supply to fingers, wrists and hands known as vibration white finger or hand arm vibration syndrome (HAVS)

**You will need to:**
- Reduce the amount of time on the tools
- Release the work with others
- Keep drill bits, points and chasers sharp
- When purchasing or hiring tools and equipment select those with low vibration ratings

### Carpenter work (internal and external) risks

**Activity:**
Using hand tools and power tools?

**Risks:**
Safety risk: Contact with moving parts

**You will need to:**
- Where possible, use 110v tools or battery operated portable tools to reduce the risk
- Ensure an RCD/earth breaker is used if using 240v equipment and that plugs and sockets are protected from damage and weather
- Ensure power tools are in good condition and well maintained
- Always use the correct guard and ensure it is adjusted correctly and working correctly
- Keep loose clothing and trailing cables away from moving parts
- If fixed, regularly test emergency stops and other cut-out or breaking switches
- Ensure hand tools are properly maintained and stored safely when not in use

**Activity:**
Creating harmful wood dust (softwood, hardwood or MDF)?

**Risks:**
Health risk: Breathing in harmful construction dust leading to allergic respiratory symptoms, lung diseases, cancers as well as skin disorders

**You will need to:**
- Maintain good ventilation
  - Avoid creating dust
  - Use dust extraction systems designed for the task and regularly clean filters and bags
  - Use a vacuum rather than sweeping with a brush if possible
  - Wear respiratory protection such as a disposable face mask and make sure it has a CE mark and is PPE rated (preferably PFP3)

**Activity:**
Working in an occupied home or workplace?

**Risks:**
Safety risk: Injury to homeowners, children, elderly or others

**You will need to:**
- Ensure you leave the work areas safe and tidy before you leave each day
- Check nothing can topple or fall over, cover any holes or voids, and don’t leave hazardous substances lying around
- Prevent access to areas that are hazardous such as excavations, open floors, scaffolding, fixed ladders

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So what was the question?

If CDM is the answer, what was the question?

- What legislation enables good management practice to be applied to Construction Health & Safety?
- Name a framework that seeks to deliver good project Health & Safety Outcomes?

Caveat: when understood & applied pragmatically
Thank you

Any Questions?