

ICT in Civil Engineering and Infrastructure

Fra Mandag d. 14. december 2026 til Onsdag d. 16. december 2026

Middelfart - Huset Middelfart

Dag 1: Mandag d. 14. december 2026

- 08:30 - 09:00 **Arrival – registration and breakfast**
v/ Kristian Stenild
- 09:00 - 09:30 **Introduction to the course**
v/ Kristian Stenild
- Wellcome and the big picture
- 09:30 - 10:30 **Building Information Modeling (BIM) – What is it – in general?**
v/ Kristian Stenild
- History and background / The concept and the theory
 - The method and the processes / Consequences for the way of working
 - New forms of agreement / The agreement set - What creates value!
 - International standards
- 10:30 - 10:45 **Break – Coffee/tea in groups**
- 10:45 - 12:15 **BIM and ICT in civil engineering works**
v/ Gita Monshizadeh
- BIM and ICT in civil engineering works
- Where is the industry heading?
 - Overlap and collaboration between the building construction and infrastructure industries
 - Practical lessons learned from collaboration on projects
 - Industry organisations and networks – an overview
 - Reflections, values and the way forward
- 12:15 - 13:00 **Lunch**
- 13:00 - 14:00 **Group assignment**
v/ Kristian Stenild
- Success stories from east and west - over a cup of coffee/tea
- 14:00 - 15:30 **The role and responsibilities of the ICT manager - The big picture**
v/ Tore Hvidegaard
- ICT and the ICT manager in the company and project organisation
 - A complete overview of legislation and contractual relationships
 - The AB system (Danish General Conditions) in relation to ICT
 - Executive orders and legislation
 - YBL 19 and YBA 19, Description of Services for Civil Engineering Works 2019
 - BIM Infra.dk's specifications. Status - and consequences of opting in under YB
- 15:30 - 15:45 **Afternoon break – Coffee/tea and cake**
- 15:45 - 17:00 **ICT tools - Requirements and management, where does the value lie?**
v/ Tore Hvidegaard
- Can experience from the building industry be transferred to civil engineering – and where can it not – and what do we do then?
 - Molio's ICT specifications and process manual
 - BIMInfra.dk ICT specification and development projects
 - BEP, BIM Execution Plan
 - Consultancy agreement, Services Distribution Schedule

17:00 – 17:15 **General questions and summary**
v/ Kristian Stenild

19:00 **Dinner**

Dag 2: Tirsdag d. 15. december 2026

07:30 – 08:30 **Breakfast**

08:30 – 08:40 **Introduction to the day**
v/ Kristian Stenild

08:40 – 10:00 **ICT Management in Civil Engineering works – Through the Contractor's Lens**
v/ Ástrídur Elin Ásgeirsdóttir og Linda J. Casares Medin

VDC at the contractor – ensuring the right focus on ICT and the use of digital services also during execution. Both in connection with design-build contracts and general contracts.

Only by also focusing on what the contractor needs can we achieve the potential of digital design and ICT that we are aiming for.

How do we get the subcontractors fully on board?

10:00 – 10:15 **Break - Coffee/tea**

10:15 – 10:45 **Presentation of workshop - ICT contractual relationships across the entire value chain**
v/ Ástrídur Elin Ásgeirsdóttir og Linda J. Casares Medin

The workshop combines presentations, group work and discussions. The assignment is solved in groups with coaching and input from the instructor, other groups and in plenary. Participants are encouraged to take an incremental approach to the assignment with ongoing reflection throughout the process.

- Format and content
- Overview of the complete set of agreements
- Project description, contractual basis and ICT specification (Molio / BIM Infra.dk)
- Process manual, DiKon/BIM7AA delivery specification, services distribution schedule - examples

10:45 – 12:15 **Group work with joint or group-based coaching**
v/ Ástrídur Elin Ásgeirsdóttir og Linda J. Casares Medin

Group work with joint or group-based coaching

- Structure and focus points
- The project parties, ICT maturity level - benefits and challenges
- The complete set of agreements - project-specific
- Process manual, headings and clarification of model levels (A, B, P)

12:15 – 13:00 **Lunch**

13:00 – 13:45 **Group work with joint or group-based coaching - continued**
v/ Ástrídur Elin Ásgeirsdóttir og Linda J. Casares Medin

13:45 – 14:00 **Review of the workshop so far - in plenary**
v/ Ástrídur Elin Ásgeirsdóttir og Linda J. Casares Medin

- Thoughts and reflections from the groups
- Summary of input

14:00 – 14:15 **Break – coffee/tea**

14:15 – 15:00 **Group work with joint or group-based coaching (continued)**
v/ Ástrídur Elin Ásgeirsdóttir og Linda J. Casares Medin

- Process manual, elaboration of P-models
- Relationship between the delivery specification, ICT specification and description of services
- ICT schedule

15:00 – 16:00 **A walk & listen – and talk**

16:00 - 16:45	Group work with joint or group-based coaching (continued) <i>v/ Ástrídur Elin Ásgeirsdóttir og Linda J. Casares Medin</i> ■ Process manual, elaboration of P-models ■ Possible presentation on tender strategy ■ Project-specific ICT matters - wrap-up and the overall picture
16:45 - 17:15	Presentation of group assignments in plenary <i>v/ Ástrídur Elin Ásgeirsdóttir og Linda J. Casares Medin</i> ■ The overall picture, paradigms, specific circumstances, benefits and challenges
17:15 - 17:30	General questions and summary <i>v/ Kristian Stenild</i>
19:00 - 20:00	Dinner

Dag 3: Onsdag d. 16. december 2026

07:30 - 08:30	Breakfast
08:30 - 08:45	Introduction to the day <i>v/ Kristian Stenild</i> Overview of the day and follow-up from yesterday You have now heard the theory on Day 1 – and seen on Day 2 that things do not always work out that way in practice. Now we look at the concrete reality in civil engineering. How is it handled in practice – in both large and small projects.
08:45 - 10:00	DiKon Civil Engineering <i>v/ Jeppe Bæklund</i> Hear about the DiKon collaboration and publications with a focus on the Civil Engineering Group
10:00 - 10:15	Break – Coffee/tea
10:15 - 12:15	ICT in Reality <i>v/ Jeppe Bæklund og Jesper Pelby</i> Start-up Phase What does ISO 19650 involve and what significance does it have BIM specification and BEP between different parties and phases 0 ICT Management Roles and responsibilities across organisations Collaboration between different parties 1 Classification CCI, what it is and how it can be used in civil engineering
12:15 - 13:00	Lunch

13:00 - 14:30

ICT in Reality

v/ Jeppe Bæklund og Jesper Pelby

2 Digital Communication / 3 Establishing a Communication Platform

Communication is the hardest part of any relationship

How can digital tools improve collaboration?

4 Digital Design

Coordinate systems, does it have to be this difficult?

LOD, how is the right level determined

Clash detection and consistency checking, more than you might think

5 Digital Tendering and Bidding / 6 Bill of Quantities

What is relevant for a civil engineering project?

7 Digital Handover

Exchange vs. handover requirements

How is as-built documentation ensured?

How do operation and maintenance influence ICT, and why do we always address it too late?

8 Digitisation of Existing Conditions

Baseline data, who delivers what and what responsibility comes with it?

Modelling existing conditions, how reality is digitised/simplified

14:30 - 15:00

Afternoon break

15:00 - 16:00

ICT in Reality

v/ Jeppe Bæklund og Jesper Pelby

9 Special Visualisations

How is the scope and level of images, animations, etc. specified?

10 Other Digital Services

BIM uses (4D, 5D, 6D, 7D, 8D, ...)

Summary

16:00 - 16:30

General questions and summary

v/ Kristian Stenild

- How do we put what we have learned into practice?
- Networking update and future exchange of ideas
- Feedback on the course
- Thank you for today
- Certificate presentation