

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 <i>v/ Kristian Stenild</i>
09:00 - 09:30	Introduction to the course <i>v/ Kristian Stenild</i> Welcome and the big picture
09:30 - 10:30	Building Information Modeling (BIM) – What is it – in general? <i>v/ Kristian Stenild</i> ■ 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 <i>v/ Gita Monshizadeh</i> 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 <i>v/ Kristian Stenild</i> 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 <i>v/ Tore Hvidegaard</i> ■ 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? <i>v/ Tore Hvidegaard</i> ■ 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

Digital design and ICT create value when they support efficient project execution and delivery: ICT management from the contractor's perspective focus on how Virtual Design and Construction (VDC) can help ensure that digital requirements and services contribute to successful execution in both design-build and traditional contracts.

The session highlights how a stronger focus on the contractor's needs is key to unlocking the full potential of digital construction.

10:00 – 10:15 **Break - Coffee/tea**

10:15 – 10:45 **Presentation of workshop – ICT contractual relationships**
v/ Ástrídur Elin Ásgeirsdóttir og Linda J. Casares Medin

The workshop combines presentations, group exercises, and interactive discussions to provide participants with a practical understanding of ICT contractual relationships. Participants will work in groups on a case-based assignment, supported by coaching and input from the instructor, peer groups, and plenary discussions.

The workshop encourages an iterative approach, where participants continuously develop their solutions while reflecting on challenges, responsibilities, and interfaces across the project value chain.

Topics covered include:

- Workshop format, objectives, and expected outcomes
- Overview of the contractual framework and key stakeholder agreements
- Project description, contractual basis, and ICT requirements (Molio / BIM Infra.dk)
- Process manuals and delivery specifications, including DiKon and BIM7AA
- Distribution of digital services, roles, and responsibilities across project participants
- Practical examples and lessons learned from real projects

Participants will leave with a stronger understanding of how contractual arrangements, ICT requirements, and digital delivery specifications influence collaboration and project execution across the entire value chain.

10:45 – 11:30 **Group work with joint or group-based coaching**
v/ Ástrídur Elin Ásgeirsdóttir og Linda J. Casares Medin

11:30 – 12:15 **Presentation of work and Group discussion**
v/ Ástrídur Elin Ásgeirsdóttir og Linda J. Casares Medin

12:15 – 13:00 **Lunch**

13:00 – 14:00 **Group work with joint or group-based coaching (continued)**
v/ Ástrídur Elin Ásgeirsdóttir og Linda J. Casares Medin

14:00 – 14:15 **Break – coffee/tea**

14:15 – 15:00 **Presentation of work and Group discussion**
v/ Ástrídur Elin Ásgeirsdóttir og Linda J. Casares Medin

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

16:00 – 16:45 **Group work with joint or group-based coaching (continued)**
v/ Ástrídur Elin Ásgeirsdóttir og Linda J. Casares Medin

16:45 – 17:15 **Presentation of group assignments in plenary**
v/ Ástrídur Elin Ásgeirsdóttir og Linda J. Casares Medin

17:15 – 17:30 **General questions and summary**
v/ Kristian Stenild

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**
v/ Kristian Stenild

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**
v/ Jeppe Bæklund

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**
v/ Jeppe Bæklund og Jesper Pelby

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