



# Documentation of pilots

Continuing education in Industrial Digitalization for skilled workers

01.01 – 26.06.2020

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# Introduction



This document contains the documentation of “Continuing education in Industrial Digitalization for skilled workers 01.01 – 26.06.2020”. The document contains a description of the settings and the motivation of the case, as well as an overview of the key performance indicators (KPIs) for the pilot. The execution and documentation of pilots are part of a larger process, named Educational Framework, aimed at transforming educational programmes for future Industry 4.0 capabilities. The case/pilot is chosen based on two initial analyses, respectively focused at industry and the institution. For further information regarding the overall process, please see the document ‘Educational Framework’.

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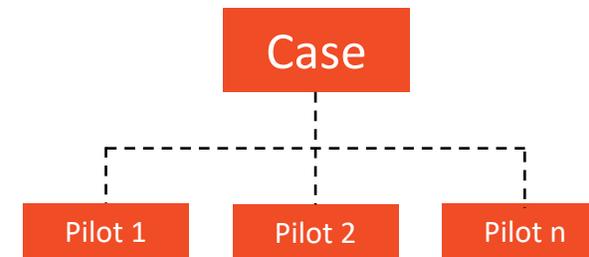


Fig. 1. The figure shows the relationship between the two terms: *case* and *pilot*.



# Description of the pilot (summary)



The case is a 30 ECTS course in Industrial Digitalization branded as “Industrifagskolen” (“The Industry College”). The course was developed in 2019 as a joint project with Norsk Industri (The Federation of Norwegian Industries) and Fellesforbundet (The United Federation of Trade Unions) supported by the Norwegian government through Kompetanse Norge (Skills Norway).

The course has three modules of 10 ECTS, and the selected pilot cover the subject “Agile Production”. The bordering subjects are “Internet of Things” and “Industrial Intelligence”. It is a part of FTO’s department for Industrial Digitalization bordering the regular fulltime and part-time (online) studies.

The course was planned and partly completed as on campus training one day per week. Due to the Corona outbreak the last third of the course was completed as online training according to the “flipped classroom” model complemented by synchronous tuition.

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# KPIs and how they are measured



The following KPI's was measured through a survey after the completion of the course:

- *Compliance between experienced and announced learning content*
- *Quality of learning processes*
- *Perceived quality lectures and tutorials*
- *Compliance between achieved learning outcome and the learning needs*

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# Implementation of the Educational Framework



The educators allocated to the course, a total of 3, was presented with the educational framework. First as written articles and the through the e-learning portal. The pilot was planned according to the principles of the framework, including the transition to online training due to the corona outbreak.

The educators gave a qualitative feedback after the initial training.

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# Results and Evaluation



KPI	Score (1 to 5)
Compliance between experienced and announced learning content	4,2
Quality of learning processes	4,0
Perceived quality lectures and tutorials	3,5
Compliance between achieved learning outcome and the learning needs	3,7

- Feedback from educator: *The modules are really well made; informative, structured and not to long*
- The results was affected by the corona situation

