

Reflective practice-based learning in further technical education

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Labour marked changes as technology converges

- New job profiles

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- Core skills still in high demand
- Contextual skills comes in higher demand

New educational practices has to accommodate this change

- More authentic

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- More authentic
- Task-centric

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- Task-centric
- Several stages

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- More authentic
- Task-centric
- Several stages
- Learning factory

What is then a learning factory?

- Factory-like setting

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- Factory-like setting
- Multi-stage

What is then a learning factory?

- Factory-like setting
- Multi-stage
- Manufacturing-oriented

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The Learning Factory needs to be mature

- Operational model

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- Purpose

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- Operational model
- Purpose
- Didactics

How can reflective practice-based learning aid development of mature learning factories?

We look on educational design in two cases

	Pilot 1	Pilot 2
Scope	<ul style="list-style-type: none"> •Production optimisation •Optimisation management •Production planning 	<ul style="list-style-type: none"> •Value chain •Customer needs •Digital technologies (within the value chain)
Purpose	<ul style="list-style-type: none"> •Enrollment criterium EQF 4 •Micro-enterprise employees (less than 15 employees) •Work experience from industry •Upskilling need 	<ul style="list-style-type: none"> •Enrollment criterium EQF 4 •SME employees •Work experience from industry •Upskilling need
Key reflection enhancing activities	<ul style="list-style-type: none"> •Exploration through Podcasting •Collaboration within the learning process •Room for dialogue through co-design 	<ul style="list-style-type: none"> •Exploration within own company •Application of demonstrated knowledge within daily practice •Reflection on practice based on the digital learning factory
Learning factory operational model	<ul style="list-style-type: none"> •Physical value chain, configurable to show different learning topics Collaboration between industrial and full-time students Real-life products as manufactured at the industrial student's workplace 	<ul style="list-style-type: none"> •Virtual value chain, configurable to show different learning topics Collaboration between industrial students •Real-life products as manufactured at the industrial student's workplace

Reflective
Practice-based
Learning

Learning Factory

Prior knowledge
Exploration
New roles



Study pilots









