Piloting a teacher competence development model in schools

Anete Butkēviča University of Latvia The Interdisciplinary Center for Educational Innovation

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THE INTERDISCIPLINARY CENTER FOR EDUCATIONAL INNOVATION THE UNIVERSITY OF LATVIA

OUR TEAM









Inese Dudareva Dace Namsone



Anete Butkēviča





Backround

- New curriculum introducing 21st century skills
- Teacher professional learning in Latvia (previous research)
- Solutions for teacher personalized support activities in the individual level
- Our research is based on designing a competence development model in organizations (including schools)
- First piloting a part of the model in school practice

Goal and research questions

Goal of the research is to plan and implement the piloting of the teacher competence development model in selected schools (N=8) in order to analyse the model's applicability for a wider real-life school practice.

Research questions:

- 1. A:What are the phases of the teacher competence development model in relation to its piloting? Ko tas nozīmē skolām
- 2. 2. kā mums sanāca
- 3. B:What needs to be improved in the model so that it can be implemented in a wider school practice?
- 4. What difficulties schools are facing in piloting phases of the model and ?
- 5. Labās prakses no skolām
- 6. Diskussion, kas ir šaubīgās, grūtība (gan experti gan skolas, vai iet kopā?)





School selection for piloting

- 1st: size as management workload rate and number of students, 6 groups (very small to very large); 4 of them are represented in this research
- 2nd: different administratively territorial division; 5 groups, all of them represented in this research
- 3rd: type of education programme provided by a school; 7 groups, 5 of them represented in this research

Schools have been participating in the project since 2017 autumn semester

Tools used in piloting

Research based tools and frameworks have been developed, piloted, results published in previous research. Based on them we are continuing with piloting

Tool/ framework	Research article
Linking competence assessment with goals: contextual research in Latvian organizations	Butkēviča et al. (2018). Exploring the Input of Competence Assessment to Goal-setting in Various Types of Organizations.
Ontological goal-oriented competence management model	Zandbergs et al. (2018). Model of Linking Organization Goals to Employee Competence Management for Formal and Non- formal Education Providers.
Online tests for assessing teacher knowledge & belief (parts of competence)	Butkēviča et al. (2019). Designing and Piloting Online Tests as Part of a Teacher Competence Assessment.
Theoretical framework for teaching performance to teach 21 st century skills; Performance level description for lesson observations	Bērtule et al. (2019). Framework of Teacher Performance Assessment to Support Teaching 21 st Century Skills.

Organizing the piloting process

Date	Activity	Aim of the activity
Jan 4	Joint workshop with school management teams (principal with assistant principal)	Introduction to the piloting goal, logic, possible ways how to participate in it
Jan 4-29	Schools forming teams of teachers, setting out desired ways of participation	Collect feedback from schools to understand in what scale and format schools want to participate
Jan 29	Sending out instruction to school teams	School teams have instructions to guide the piloting so that it's in a similar way in all sites
Feb	Experts visiting schools, electronical contact upon demand	Face to face contact between school teams and experts, individual support
May 31, in progress	Schools prepare reviews about the piloting process	Collecting written reviews and artifacts from schools to start analysis of piloting results, make comparison, identify risks and benefits





What are the phases of the teacher competence development model in relation to its piloting?

Phases of competence management process and their outcome



Butkēviča et al, 2019

Phase I

Schools set their goals, depending on what is most topical for them

School	Goal [summary]
01_V	Unified approach for student evaluation
08_Z	Student self-directed learning
07_N	Student self-directed learning
02_U	Improving textual literacy for students through teacher collaboration
04_S	Student self-directed learning
06_P	Student self-directed learning
03_T	Improving different elements of student self-directed learning
05_R	Lessons focused on students' learning result and their in-depth understanding of learning

Phase II

Dimensions

- Experts plan which competence areas and in what levels (scale 1-4) are needed to reach the goals
- Example of criteria 'metacognitive skills' ->

	Levels							
[0.11.1	0 1		2	3	4		
	Criteria	Not observed	Beginner	Developing	Proficient	Expert		
•	1.2. Metacognitive skills Conducts a strategy of learning at a conscious level.	Don't organize reflection on how learning takes place.	Involves students in reflection on the purpose of the learning activity, the purpose of the task, talks on the possibilities of using knowledge, skills, strategies.	+ Make a conversation on how pupils learn, read, think, remember, discuss, compare strategies used by students.	+ Give students the task of evaluating different strategies, their effectiveness, and choosing the most appropriate for themselves and the situation.	+ Give tasks for student to justify the choice of their strategies.		
k	Teaches to set goals, plan, assess, monitor one's learning.	Does not involve students in setting goals, monitoring their activities, assessment, etc.	Involves students in discussing goals, performance criteria; encourages students to see the linkage of learning activities.	Encourages students to personalize, adjust goals, see the roles of activities, use the criteria to give a feedback to a classmate, to use the received feedback.	Encourages students to set individual goals, plan activities to achieve the goal, formulate product, process criteria; choose a task that suits them, ask and give a qualitative feedback, using criteria, description of performance levels.	Creating a process so that pupils are guided, adjusted, plan their activities on their way to a common or individual goals.		
		The pupil does not use metacognitive skills.	Pupil understands what and why - clear sequence of activities and tasks; have the opportunity to learn some individual metacognitive skill.	The pupil learns to manage learning through metacognitive strategies.	Pupil uses, assess, learns new metacognitive strategies to guide their learning.	The pupil consciously, independently chooses and uses metacognitive strategies, guides their learning.		

Phase II

Competence identification where teacher universal profile is obtained and appropriated to each school's goal (example)

Accordance to school goal:			Teacher basic skills	
student cognitive activation				
Productive	Involvement in	Structure of the	Methodological	Clarity of
assignments	thinking,	lesson; choice of	techniques,	chosen learning
2.1.	conversation	methods 4.1.	classroom	content
	2.2.		management	6.2.
			6.1.	
3	3	2	2	2

Phase III

- Schools choose teachers who participate in the piloting
- Teacher competence assessment done by experts started in spring semester 2018 (lesson observation + teacher knowledge and belief test)
- Assessment results are reviewed by school management team

Phase III

School management teams receive the actual profile of each assessed teacher

Teacher competence according to selected assessment criteria: results from lesson observation 2017/2018

Teacher	Subject	Grade	Consistency with school goal – managing self-directed learning			Teacher basic skills	
			Clarity of learning goals 1.1.	Feedback 1.2.	Metacognitive skills 1.3.	Structure of lesson, choice of methods 4.1.	Methodological techniques, classroom management 6.1.
Z-1	English	2	1	1	0	2	1
Z-2	Mathematics	7	2	2	1	3	3

Phase III

If necessary school management team does another round of teacher competence assessment by using a rubric (example)

		Mēģina, sāk	Tuvu rezultātam	Prasmīgs, lietpratīgs	Eksperts
	Prasme va	dīt tādu mācīšanos,	kura ved uz skol	ēna kompetenci	
Mācīšanās	(t.sk. pašvad	lītas) vadīšana			
1.1.Mācīša	Pasaka tēmu,	Formāli pasaka	SR ir formulēts	Izvirza labi	+ lesaista
nās mērķu	par ko būs	stundas mērķi	atbilstoši laba	(atbilstoši visiem	skolēnus SR
(SR)	stunda, bet ne	(SR)skolēnam vai/un	mērķa kritērijiem	kritērijiem)	un/vai
skaidrība	kā mērķi - ko	snieguma kritērijus.	(skaidrs, izmērāms,	noformulētu SR	snieguma
	iemācīsies.	vai	būtisks, atbilstošs,	un/ vai snieguma	kritēriju
Mērķa	vai	Kā stundas mērķi	sasniedzams laikā),	kritērijus	formulēšanā,
formulējums	Nepasaka	nosauc visu, kas	bet	skolēniem	precizēšanā,
	skolēniem	stundā tiks darīts (ir	nepārliecinās/nepi	saprotamā	koriģēšanā.
Saprotamīb	neko.	daudz "mērķu"),	evērš uzmanību	valodā	
a skolēniem		neizceļ būtisko.	tam, vai skolēniem	un	
		vai	mērķis un/vai	pārliecinās, vai	
		SR formulējums	snieguma kritēriji ir	skolēniem tas ir	
		neatbilst visiem	saprotami.	saprotams.	
		kritērijiem.			
	Skolēns				Skolēni
	nezina, kas	Skolēns dzird/redz	Skolēns dzird		piedalās
	stundā	stundas mērķi, bet	precīzu mērķi, bet	Skolēni saprot,	mērķa
	jāiemācās.	nav precīzi skaidrs,	var būt atsevišķas	kas jāiemācās.	formulēšanā.
		kas īsti jāiemācās,	neskaidrības.		
		svarīgi.			

Phase IV

Competence development



What difficulties schools are facing in piloting the competence management process?

- At the beginning of piloting, one school cancelled participation
- Stated reason: not a priority, not enough time

Schools are writing reviews on piloting experience based on criteria

- Activities, events organized with the school teams
- Developments / improvements that school teams accomplished
- Obstacles that school teams faced
- Support needs
- Planned activities for next school year
- Involved teachers, other colleagues from the school

Collecting reviews from schools still in progress

Literature

- Bērtule. D., Dudareva, I., Namsone, N., Čakāne, L., Butkēviča., A. (2019). Framework of Teacher Performance Assessment to Support Teaching 21st Century Skills. Proceedings of the 13th annual International Technology, Education and Development Conference INTED 2019.
- Butkēviča, A., Zandbergs, U., Namsone, D., & Briķe, S. (2018). Exploring the Input of Competence Assessment to Goalsetting in Various Types of Organizations. SOCIETY. INTEGRATION. EDUCATION, Volume VI (pp. 130-141). <u>http://dx.doi.org/10.17770/sie2018vol1.3280</u>
- Butkēviča, A., Dudareva, I., Namsone, D., Zandbergs, U., Čakāne, L., Bērtule. D. (2019). Designing and Piloting Online Tests as Part of a Teacher Competence Assessment. SOCIETY. INTEGRATION. EDUCATION. Proceedings of the International Scientific Conference, Volume V (pp. 333-343) Presented in Rezekne, Latvia, May 24. 2019. <u>http://dx.doi.org/10.17770/sie2019vol5.3846</u>
- Zandbergs, U., Namsone, D., & Briķe, S., Butkēviča, A. (2018). Model of Linking Organization Goals to Employee Competence Management for Formal and Non-formal Education Providers. 13th International Baltic Conference on Databases and Information Systems, July 1-4, 2018, Trakai, Lithuania.

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THANK YOU!

Any questions?

anete.butkevica@lu.lv



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