

RESEARCH ARTICLE

# Ontemporary Methods For Improving Teachers' Professional Development In The Context Of Educational Transformation

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## Abstract

In the context of rapid educational transformation, improving teachers' professional development has become a strategic priority for ensuring the quality and effectiveness of modern education systems. This article examines contemporary methods for enhancing teachers' pedagogical competencies amid processes of educational modernization at the global and national levels. Drawing on international research and practical experience, as well as reforms implemented and planned in Uzbekistan, the study highlights innovative approaches to continuous professional development. Particular attention is given to pedagogical innovation, digital literacy, artificial intelligence, personalized learning, virtual and augmented reality applications, digital content creation and curation, collaborative learning, coaching and mentoring, and formative and summative assessment strategies. The article emphasizes the evolving role of the teacher from a transmitter of knowledge to a facilitator, advisor, and reflective practitioner capable of fostering critical thinking, creativity, and problem-solving skills in learners. It is argued that the effective integration of modern technologies, professional learning communities, and adaptive teaching methods contributes to meaningful learning, enhanced student engagement, and sustainable professional growth of teachers. The study concludes that systematic support, regulatory frameworks, and alignment with the "University 3.0" concept are essential for advancing innovative models of teacher professional development and improving the overall quality of education.

## KEY WORDS

Teacher professional development; educational transformation; pedagogical innovation; digital literacy; artificial intelligence in education; personalized learning; formative and summative assessment; professional learning communities; educational technologies.

## INTRODUCTION

Nowadays, improving the quality of education is considered one of the most important tasks for governments worldwide. In modern education, numerous studies have been conducted by researchers across the globe on enhancing the pedagogical

skills of school teachers. Below, we provide some examples of foreign scholars' opinions regarding the professional development of teachers.

This article presents explanations about modern methods aimed at improving teachers' pedagogical qualifications in the context of educational modernization worldwide. Alongside developed countries, evidence of the effectiveness of educational methods currently practiced and planned to be implemented in Uzbekistan is also provided. New methods aimed at improving teachers' pedagogical skills are highlighted.

These include pedagogical innovation, potential micro-themes, facilitators, digital literacy, artificial intelligence, personalized learning, virtual applications, and curation. The transition of the teacher's role from knowledge transmitter to facilitator and advisor is emphasized. In the teaching process, the method of moving from simply delivering subject knowledge to providing clear and easy-to-understand advice to knowledgeable students yields better results in lessons.

Teachers should not only deliver scientific knowledge but also provide other necessary information that students may require. Developing critical thinking, problem-solving, and creativity skills in teachers is crucial. Teachers should encourage students to approach any knowledge and ideas with critical thinking, which facilitates the development of students' creative abilities.

When we talk about digital literacy in the context of transforming the education sector, it primarily involves enhancing teachers' pedagogical skills by effectively using modern technologies, digitizing the teaching process, and subsequently teaching these skills to students. The use of modern technologies not only strengthens the knowledge acquired during lessons and improves retention but also ensures that the lessons are conducted meaningfully. Plans for professional development in education exist in all countries, with ongoing efforts to reform this sector by continuously incorporating new ideas. One of the innovative methods mentioned above—utilizing online platforms—can be particularly effective. Efficient use of online platforms is an essential tool in today's world, helping save time, reduce unnecessary expenses, and most importantly, serves as the optimal method during quarantine periods. Artificial Intelligence and Personalized Learning. The use of artificial intelligence (AI) in modern education systems is steadily expanding. AI helps to increase and enhance knowledge more rapidly. Personalized learning means fostering a person's growth with human qualities, developing certain traits, encouraging independent thinking, expressing ideas clearly,

advancing knowledge and skills, understanding oneself as an individual, and fully realizing one's abilities and potential. Personalized technology refers to the techniques, modern technologies, and new methods applied to effectively implement these processes, organize them efficiently, and achieve successful results. Personalized learning, as the term implies, is understood as the pedagogical process of educating and nurturing an individual.

Virtual and Augmented Reality Applications. With the help of Augmented Reality (AR), classroom learning can become extraordinary and interactive, as AR allows teachers to show virtual examples of concepts and add game elements to support textbook materials. This enables students to learn faster and better retain information. Human memory easily remembers images.

Digital Content Creation and Curation. This refers to the contribution of information to any mass media, especially digital media, for a specific context and end user/audience. Content is a medium of information that must be expressed through some form of communication such as speech, writing, or various types of art for self-expression, dissemination, marketing, and/or publishing. Common forms of content creation include maintaining and updating websites, blogging, writing articles, photography, videography, online reviews, managing social media accounts, editing, and distributing digital media.

Collaborative Learning and Peer Assessment. Teachers play a central role in effectively implementing collaborative pedagogy. Continuous training and professional development are necessary to equip teachers with the skills required to facilitate collaboration in the classroom. Such programs can help teachers design and monitor collaborative activities, manage diverse student groups, and adapt to evolving educational demands.

By applying technology and rethinking the traditional classroom structure, teachers provide students with opportunities to engage with learning materials in a more dynamic and meaningful way, resulting in enhanced academic growth and success. In the ever-evolving educational landscape, applying innovative teaching methods—such as the flipped classroom model—holds great potential to reshape the learning experience and prepare students for future challenges.

Overall, implementing changeable classroom methods reflects

a commitment to creating an enriched learning environment that prioritizes student engagement, active learning, and holistic development.

**Continuous Professional Learning Communities and Coaching.** Today, professional education for youth, the development of professional competencies among student-youth, and the organization and management of the educational process in professional education institutions have become some of the most pressing issues. Currently, special attention is given to strategies for developing educational processes based on collaboration, conceptual features of the education system, main directions of modernization, contemporary reforms in education, comparative analyses and dynamics of educational processes, as well as scientific research focused on organizing and managing educational activities.

From this perspective, exchanging advanced experiences highlights the need to eliminate shortcomings in educational and management activities, and to develop and promote new approaches, technologies, and principles in the organization of pedagogical processes and management.

**Access to High-Quality Online Resources and Webinars.** Many educational institutions actively use the Internet to distribute materials for lessons, facilitate communication between teachers and students, and share core educational technologies and tools. In the initial years, educational institutions aimed to upload existing slides and teaching materials online as quickly as possible. The pioneer of this approach is Skillsoft, which is considered one of the largest players in the educational content market. Modern e-learning programs differ significantly from teacher-led education; they are presented and function as real-time films, online video games, and fully immersive virtual experiences.

**Coaching and Mentoring Programs.** Every person occasionally needs a mental “lift” — whether dissatisfied with relationships, career, or overall happiness and well-being. Life coaches can assist during difficult and challenging times. While it is important not to confuse life coaches with therapists or psychologists, life coaches help find a more meaningful purpose in life and encourage the use of one’s unique qualities and personality.

The first step in life coaching begins with the client reaching out to a coach; however, success is measured by the quality of the coach-client relationship and the effectiveness of their coaching sessions.

**Leadership and Innovations of Educators.** The main goal of a modern educator is to provide students (learners) with a level of development that enables them to succeed not only in their educational institution but throughout their entire lives. To achieve this, teachers themselves must be progressive and act as carriers of the skills they cultivate in their students. Therefore, in our rapidly changing world, it is especially important for teachers to develop adaptive skills.

Currently, interest in transversal skills and the need for them have grown significantly. Technologies are advancing so quickly that the knowledge we acquire becomes obsolete rapidly. Thus, today, a person who can quickly learn new things, effectively adapt to changing conditions, and find innovative solutions is the one who achieves successful outcomes.

**Formative and Summative Assessment Strategies.** The main purpose of summative assessment is to evaluate the final outcomes or achievements of students or educational programs. It allows for an overall evaluation of the effectiveness of teaching and learning processes. Summative assessments are typically conducted at the end of a course, semester, or academic year.

Summative assessment has several key characteristics. First, these assessment methods help determine the level of knowledge students have acquired. During instruction, students have the opportunity to test themselves, evaluate their knowledge, and reinforce the information they have learned.

Formative assessment emphasizes continuous feedback and support during the teaching and learning process. Its primary goal is to identify students’ strengths and weaknesses, pinpoint areas for improvement, and help enhance learning outcomes. Formative assessment is used as an effective tool to increase the level of knowledge acquired by the student.

In formative assessment, the teacher integrates information, skills, and concepts during the learning process to improve students’ understanding. Its main function is to encourage self-assessment, motivate students, identify problems, and find ways to address them. Formative assessment allows students to express their thoughts and trains them to receive regular feedback and make decisions that foster the growth of their knowledge.

There are several main methods of formative assessment. For example, a teacher might require students to answer related

questions during reading, writing, thinking, and discussion activities. Activity-Based Assessment and Authentic Tasks. Assessment is carried out daily by evaluating where the student stands in the learning process. Assessment primarily occurs when the teacher asks questions, checks homework, and listens to student reports. These assessments influence learning pace, strategies, and decisions about "where to go next."

For the most accurate results, students should be observed and assessed in real-life situations; hence, the term "authentic assessment" is often used in education reform. Unlike standardized tests that interrupt the learning flow, assessments should be part of the natural rhythm of classroom lessons. When the curriculum provides insight into a student's thinking, it is a natural time to assess them. Such assessment need not be a formal grade—it can be informative for both the teacher and the student. The assessment process provides initial data on which conclusions about learning at the end of the course can be drawn.

Assessment tasks can take various forms, and responses can be in different formats. These include classroom tests, multiple-choice or other objective tests, fieldwork or project reports, essays (coursework, assignments), seminar presentations, studio works, creative projects, professional speeches, and traditional timed exams.

#### Providing Timely and Constructive Feedback

Timely, clear, and constructive feedback helps students understand their mistakes and learn from them. This, in turn, motivates them to improve and achieve success.

Identifying Key Competencies Necessary for Effective Teaching in the Modern Era. A teacher embarks on a new trajectory of development, expanding both fundamental and practical knowledge, transforming professional and personal qualities, and understanding themselves as a creator, innovator, and researcher. They serve as carriers of social, ethical, and aesthetic values within society. Such processes create what is called the "horizontal" vector of development, a path for realizing their potential and conscious needs, reflecting the foundations of a professional communicator's reasonable thinking and result-oriented reflective culture.

As tasks become more complex, the teacher's professional skills improve.

Discussing Strategies to Develop Creativity, Critical Thinking,

and Collaboration Among Teachers

The purpose of critical thinking development technology is to cultivate intellectual abilities in students that are essential not only for learning but also for their future life (making clear decisions, working with information, analyzing different aspects of phenomena, etc.). The formation of critical thinking skills in students depends on how higher education professors organize lessons using educational technologies and create favorable conditions for independent learning.

Today, both our educators and parents demand not only special attention to the education and upbringing of young people but also more communication with them, along with encouraging young people to develop critical thinking. Several reforms are currently being implemented in our country's education system in this regard. Conclusion It should be emphasized that the issues of developing teachers' professional, scientific, and innovative activities within the continuous professional development system should primarily be ensured through the implementation of relevant legal and regulatory documents. Subsequently, they must become a regular subject of study within the framework of measures to implement the "University 3.0" concept. In our opinion, the innovative development process of the retraining and professional development system for higher education institution teachers should serve as the main direction for updating the quality of results in the comprehensive training of teachers in our country using new generation 3.0 technologies.

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