

# Professional Development Barriers of Teachers: Qualitative Research

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**Abstract.** Teacher professional development (PD) is widely recognized as a key factor in enhancing teaching quality and improving student learning outcomes. However, teachers often face significant barriers to accessing and engaging in PD, which operate at individual, institutional, and systemic levels. This study employs a Systematic Literature Review (SLR) of 25 qualitative and mixed-methods studies published between 2010 and 2024 to identify and analyze these barriers. Thematic analysis reveals five major challenges: time constraints and heavy workloads, limited access and infrastructure (especially in remote areas), misalignment between PD content and classroom needs, lack of leadership and policy support, and low teacher motivation and professional identity. These barriers are categorized across three levels: individual (e.g., burnout, lack of motivation), institutional (e.g., inadequate school leadership, absence of collaborative structures), and systemic (e.g., digital divide, centralized and non-contextual policy design). The review also synthesizes key recommendations from the literature, including the need for contextually relevant PD, collaborative models such as Professional Learning Communities (PLCs), stronger instructional leadership, and inclusive, long-term policy frameworks. Findings highlight the importance of moving beyond superficial training models toward a systemic, multi-layered approach that fosters a sustainable culture of professional learning and empowers teachers as active agents of educational change.

**Keywords:** professional development barrier; teacher; teacher performance; systematic literature review.

## INTRODUCTION

Professional development (PD) for teachers is increasingly recognized as a critical component in improving teaching practices and enhancing student learning outcomes. In an era characterized by rapid educational changes, globalization, and the integration of information and communication technology (ICT) into the classroom, teachers are expected not only to deliver content effectively but also to continuously adapt and grow professionally (Darling-Hammond et al., 2017; OECD, 2019). Consequently, ongoing and meaningful professional learning has become a cornerstone of effective education systems worldwide.

The need for continuous professional development arises from multiple factors: curriculum reform, pedagogical innovation, shifts in student demographics, inclusive education policies, and the growing demand for 21st-century skills such as critical thinking, collaboration, and digital literacy (Fullan, 2007; Timperley, 2011). Teachers are no longer merely knowledge transmitters; they are learning facilitators, curriculum designers, and agents of change. As such, the development of their knowledge, skills, attitudes, and beliefs through structured PD

programs is paramount to their ability to meet these evolving expectations (Desimone, 2009; Avalos, 2011).

Despite broad agreement on the value of professional development, research consistently reveals that teachers across contexts face numerous barriers that hinder their participation and engagement in such activities (Vangrieken et al., 2017; Kennedy, 2016). These barriers may be institutional—such as lack of time, funding, or administrative support—or personal, including low motivation, resistance to change, or burnout. Other challenges relate to the design and delivery of PD programs, which are often criticized for being too theoretical, one-size-fits-all, or disconnected from the actual classroom challenges teachers face (Opfer & Pedder, 2011; Hill, 2009).

In many developing countries, including Indonesia, the situation is even more complex. Teachers may be geographically isolated, lack access to quality PD resources, or be burdened with heavy workloads and bureaucratic demands (Komba & Nkumbi, 2008; Avalos, 2010). Although national and local governments have initiated programs to improve teacher quality such as certification, mentoring, and teacher working groups implementation remains uneven and impact limited due to systemic issues.

While quantitative studies have provided valuable data on teacher PD participation and general trends, there is a growing recognition of the need for qualitative research to capture the nuanced, lived experiences of teachers as they navigate the challenges of professional learning. Qualitative approaches allow for a deeper understanding of the contextual, emotional, and cognitive dimensions that shape teachers' engagement with PD (Borko, 2004; Braun & Clarke, 2006).

Therefore, this study aims to explore, through a qualitative lens, the specific barriers faced by teachers in accessing and benefiting from professional development. By focusing on the perspectives of teachers themselves, this research seeks to contribute to a more grounded understanding of how PD is experienced on the ground and to inform the design of more responsive and effective policies and programs.

The research is guided by the following questions:

- 1) What are the common barriers to professional development reported in existing literature?
- 2) How are these barriers categorized across individual, institutional, and systemic levels?
- 3) What recommendations have been proposed in the literature to overcome these barriers?

Addressing these questions is crucial not only for improving PD initiatives but also for supporting teacher well-being, professional agency, and ultimately, the quality of education delivered to students.

## METHODS

This study employed a qualitative Systematic Literature Review (SLR) approach to identify, analyze, and synthesize existing literature on the barriers faced by teachers in engaging with professional development (PD). The SLR approach allows for a comprehensive, transparent, and replicable review of peer-reviewed articles and reports, with the aim of drawing deeper insights into recurring themes, research gaps, and contextual challenges (Boell & Cecez-Kecmanovic, 2015; Petticrew & Roberts, 2006).

Unlike narrative reviews, SLRs follow a structured and rigorous methodology to minimize bias and ensure the reliability of findings. In this research, the SLR was conducted following the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines (Moher et al., 2009), with a specific focus on qualitative findings related to professional development

barriers.

**Inclusion and Exclusion Criteria** To ensure the relevance and quality of the sources, the following criteria were applied: **Inclusion Criteria:** Peer-reviewed journal articles and academic conference papers, Studies published between 2010 and 2024, Focus on teacher professional development barriers, Qualitative or mixed-methods studies with qualitative findings, Written in English or Bahasa Indonesia. **Exclusion Criteria:** Studies not directly addressing professional development or not involving teachers, Opinion pieces, editorials, and non-peer-reviewed documents, Quantitative-only studies without qualitative insights.

**Data Sources and Search Strategy** The literature search was conducted across several academic databases including: Scopus, Web of Science, ERIC, Google Scholar, SAGE Journals, Garuda (Garba Rujukan Digital – Indonesia), Keywords and Boolean operators used in the search included: ("teacher professional development" OR "teacher learning") AND ("barriers" OR "challenges" OR "constraints") AND ("qualitative" OR "case study" OR "interview") The search was refined using filters such as year of publication, language, and subject area.

**Article Screening and Selection** The selection process followed the PRISMA four-stage framework: **Identification:** A total of 437 articles were identified through database searching. **Screening:** After removing duplicates, 372 titles and abstracts were screened. **Eligibility:** 76 full-text articles were assessed for relevance. **Inclusion:** A final set of 25 studies met all inclusion criteria and were selected for qualitative synthesis. A PRISMA flow diagram was constructed to illustrate the screening process.

A standardized data extraction form was used to collect information from each selected study, including Author(s), year, country Research method and sample Context (educational level, region) Identified barriers Key findings and recommendations The extracted data were then imported into NVivo 12 for qualitative coding. Thematic analysis (Braun & Clarke, 2006) was used to identify patterns and themes across the studies. Coding was done inductively to allow themes to emerge from the data while maintaining links to the original sources.

**Trustworthiness and Rigor** To ensure the rigor of the review, several strategies were employed: **Transparency:** A clearly documented search and selection process was maintained.

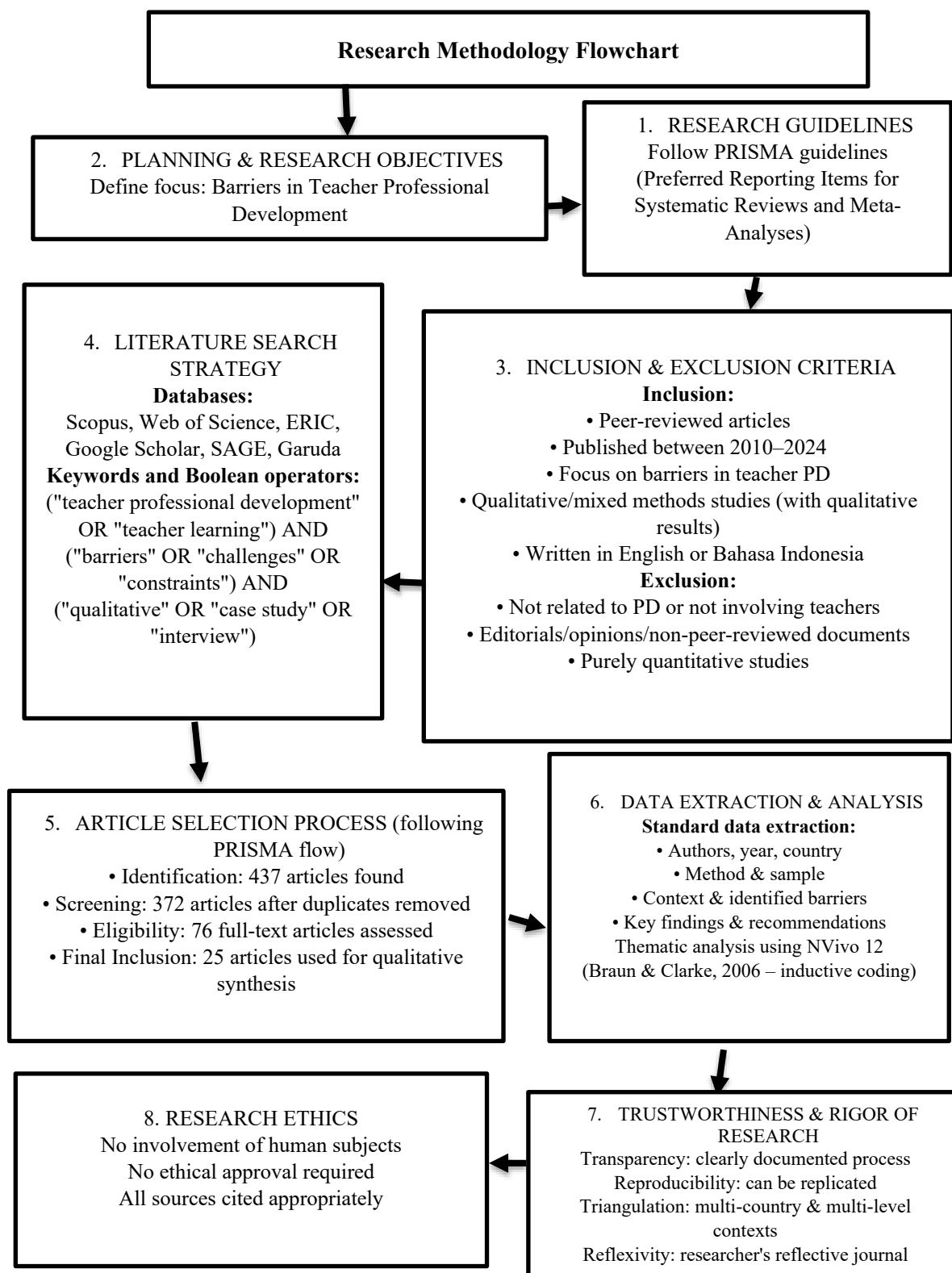


Figure 1. PRISMA flow diagram

Reproducibility: Databases, search terms, and criteria were documented for replication. Triangulation: Studies from multiple countries and educational contexts were included to enhance validity. Reflexivity: The researcher maintained a reflexive journal to acknowledge potential biases

and ensure objective interpretation.

As this study is a review of publicly available academic literature, no primary data collection involving human subjects occurred. Therefore, formal ethical approval was not required. Nonetheless, all sources were cited appropriately

to maintain academic integrity and avoid plagiarism.

## RESULTS AND DISCUSSION

The results of the Systematic Literature Review (SLR) of 25 journal articles show that the barriers to teacher professional development are very complex, involving various dimensions: personal, institutional, and systemic. Here are 25 journal articles that the author analyzed, namely. From the thematic analysis, six main themes were found that consistently emerged in the literature, namely:

### 1) Time Constraints and Workload

Most of the literature reports that teachers have difficulty participating in professional development activities due to high workloads and time constraints (e.g., Opfer & Pedder, 2011; Avalos, 2011; Komba & Nkumbi, 2008). Tight teaching schedules, administrative obligations, and extracurricular demands often leave little time for training. "Teachers in both urban and rural settings indicated that their daily workload was overwhelming, making it nearly impossible to allocate time for structured PD activities." (King, 2016)

### 2) Limited Access and Infrastructure

Teachers in rural or remote areas face challenges in accessing quality training and supporting infrastructure, such as internet connection, transportation, or adequate teaching materials (Chang et al., 2014; World Bank, 2020). This results in inequality between teachers in developed and disadvantaged areas. "Geographic remoteness acts as a structural barrier, particularly in low-income countries, where digital access is also limited." (Pillay et al., 2013)

### 3) Relevance and Quality of PD Programs

Several studies have criticized that training content is not relevant to teachers' real needs in the classroom (Desimone, 2009; Kennedy, 2016). Training is often theoretical, national in scale without considering local context, or takes the form of one-way seminars that do not allow for active participation. "The top-down nature of PD design often ignores the classroom realities of teachers, making it difficult for them to apply what they learn." (Opfer & Pedder, 2011)

### 4) Lack of Support from Leadership and Policy

Support from school leaders and policy makers is crucial to the success of PD. However, many teachers report a lack of structural support or incentives from principals and government to follow or implement training outcomes

(Timperley, 2011; Hargreaves, 2003). "Teachers are less motivated to participate in PD when they feel unsupported or when their school environment discourages experimentation and professional risk-taking." (Stoll et al., 2006)

### 5) Teacher Motivation and Professional Identity

Teacher motivation is an important but often overlooked factor. Some teachers, especially those who are experienced or approaching retirement, feel that PD no longer adds value. In addition, lack of recognition, job satisfaction, and professional autonomy reduce the spirit of continuous learning (Day & Gu, 2007; Richter et al., 2011). "Teachers' willingness to engage in PD is closely tied to their perceived professional value, autonomy, and career stage." (Guskey, 2002)

### 6) Cross-Cutting Issues

In addition to the five main themes above, there are cross-dimensional issues such as gender inequality, the influence of school culture, and fragmentation of education policies that exacerbate barriers to PD. Female teachers, for example, are more often limited in their mobility due to domestic responsibilities, while rapid and inconsistent policy changes at the national level also create confusion.

The findings of this SLR support the previous conceptual framework that barriers to teacher professional development are multi-level and interacting. Barriers cannot be overcome simply by increasing the amount of training but require a transformation of the educational ecosystem: from policy planning, school leadership, to changes in teacher learning culture.

This study also reinforces the importance of contextual and participatory approaches in designing relevant and sustainable PD. Interventions such as Professional Learning Communities (PLCs), Lesson Study, and school-based mentoring have been shown to be effective in several studies (Vescio et al., 2008; Stoll et al., 2006), provided they are supported by adequate policies and resources.

Here I add a Discussion section that explicitly answers the three research questions that you have previously set. This section is integrated into the thematic discussion structure that has been prepared but added in a more analytical way and focused on answering RQ1, RQ2, and RQ3.

**RQ1 :** What are the common barriers to professional development reported in existing literature?

Findings from the systematic literature review indicate that barriers to teacher professional

**Table 1. 25** Journal articles that the author, analyzed

| <b>No</b> | <b>Author(S)</b>       | <b>Year</b> | <b>Research Approach</b>   | <b>Key Findings</b>   |
|-----------|------------------------|-------------|----------------------------|---|
| 1         | Avalos                 | 2011        | Qualitative review         | Heavy workload limits teachers' participation in professional development.  |
| 2         | Opfer & Pedder         | 2011        | Mixed method               | Teachers often find PD irrelevant to their classroom practices.             |
| 3         | Kennedy                | 2016        | Qualitative meta-analysis  | Top-down PD models fail to address local teaching contexts.                 |
| 4         | Desimone               | 2009        | Theoretical review         | Effective PD includes content focus, collaboration, and coherence.          |
| 5         | Timperley              | 2011        | Case study                 | Instructional leadership is key to PD success.                              |
| 6         | Day & Gu               | 2007        | Longitudinal study         | Teacher motivation is linked to professional identity and support.          |
| 7         | Pillay et al.          | 2013        | Exploratory study          | Remote teachers face digital and logistical challenges.                     |
| 8         | Komba & Nkumbi         | 2008        | Field study                | Administrative burden reduces teachers' time for PD.                        |
| 9         | Chang et al.           | 2014        | Qualitative study          | PD access is unequal between urban and rural areas.                         |
| 10        | Stoll et al.           | 2006        | Qualitative review         | PLCs are effective when supported by school policies.                       |
| 11        | Hargreaves & Fullan    | 2012        | Conceptual study           | PD reform requires changes in professional culture.                         |
| 12        | Guskey                 | 2002        | Theoretical review         | PD evaluation should focus on teacher behavior change.                      |
| 13        | Day & Sachs            | 2004        | Qualitative theory         | Professional autonomy is essential for motivation in PD.                    |
| 14        | King                   | 2016        | Narrative study            | PD often lacks time flexibility for busy teachers.                          |
| 15        | Richter et al.         | 2011        | Mixed method               | PD is rarely tailored to teachers' career stages.                           |
| 16        | OECD                   | 2019        | Global survey report       | Systemic barriers include funding, access, and inconsistent policy support. |
| 17        | Darling-Hammond et al. | 2017        | Best practices review      | PD must be classroom-embedded to be effective.                              |
| 18        | Boak & Turner          | 2021        | Longitudinal study         | Lack of recognition reduces teacher motivation to engage in PD.             |
| 19        | Borko                  | 2004        | Literature review          | The learning environment greatly affects PD effectiveness.                  |
| 20        | Vescio et al.          | 2008        | Qualitative meta-analysis  | PLCs enhance student learning when teachers are actively involved.          |
| 21        | Avalos & Assael        | 2006        | Qualitative study          | Formal PD often fails to meet real classroom needs.                         |
| 22        | Little                 | 1993        | Ethnographic study         | Peer collaboration fosters sustainable PD.                                  |
| 23        | Fraser et al.          | 2007        | Qualitative study          | Teachers need adaptive and practice-based PD approaches.                    |
| 24        | Penuel et al.          | 2007        | Survey & case study        | Contextual school support significantly influences PD implementation.       |
| 25        | Webster-Wright         | 2009        | Qualitative meta-synthesis | Effective PD is continuous, reflective, and not episodic.                   |

development are diverse but can be classified into several dominant issues:

**Time and workload constraints:** Almost all studies report that teachers' busy work schedules and high administrative burdens limit their participation in PD (Opfer & Pedder, 2011; Avalos, 2011).

**Limited access and facilities:** Teachers in remote or poor areas experience barriers in accessing training, whether due to geographical distance, weak infrastructure, or unstable digital connections (Pillay et al., 2013; Chang et al., 2014).

**Inappropriateness of training content:** Many training courses are not relevant to everyday classroom practice, are too theoretical, or do not take into account teachers' local needs (Desimone, 2009; Kennedy, 2016). **Lack of institutional and policy support:** Lack of incentives, supervision, and a supportive school culture for PD were also cited as major barriers (Timperley, 2011; Stoll et al., 2006). **Low teacher motivation:** Teachers who do not see immediate benefits from PD tend to be reluctant to participate. This is influenced by previous negative experiences, lack of recognition, and poor career development (Day & Gu, 2007; Guskey, 2002). Thus, the most common barriers include practical aspects (time, access), program content (relevance), organizational structure (support), and psychological aspects (motivation).

**RQ2 :** How are these barriers categorized across individual, institutional, and systemic levels?

Based on the multi-level framework used in this study, barriers to PD can be categorized as follows:

a. Individual-Level Barriers

Teachers' motivation and perceptions towards PD (Guskey, 2002) Previous negative experiences in training Job burnout and lack of work-life balance (Day & Gu, 2007)

b. Institutional-Level Barriers

School workloads that do not allow for PD (Komba & Nkumbi, 2008) Weak school leadership that does not facilitate a learning culture (Hargreaves & Fullan, 2012) Lack of teacher collaboration and internal support structures such as PLCs

c. Systemic-Level Barriers

Geographic and digital access inequalities (Pillay et al., 2013) Top-down policies that are not contextualized (Kennedy, 2016) Lack of long-term investment in teacher development (OECD, 2019) This classification shows that

solutions to PD barriers cannot be done at one level but require a systemic and collaborative approach across levels.

**RQ3 :** What recommendations have been proposed in the literature to overcome these barriers?

Based on the synthesis of 25 reviewed studies, several key recommendations to address barriers to PD include:

1. Improved PD Program Design

Adapt training content to local needs and real classroom practices (Desimone, 2009). Use reflective and collaborative approaches, such as Lesson Study and PLC (Stoll et al., 2006; Vescio et al., 2008).

2. Stronger Institutional Support

Encourage instructional leadership that facilitates a culture of teacher learning (Timperley, 2011). Allocate formal time for professional development in the academic calendar.

3. Inclusive and Sustainable Policies

Build a PD policy model based on needs, not just administrative obligations (Kennedy, 2016). Increase access to technology and online training to reach teachers in remote areas.

4. Strengthen Teacher Motivation and Professional Identity

Develop incentive schemes based on achievement and active participation in PD. Providing autonomy for teachers to design their own development plans (Day & Sachs, 2004).

These recommendations emphasize the need for a holistic approach, focusing not only on the amount of training but also on the quality of teachers' learning experiences and the contextual support that enables continued implementation.

## CONCLUSION

This study identified key barriers that hinder teachers' engagement in professional development, categorized across individual, institutional, and systemic levels. Common challenges include time constraints, limited access, irrelevant training content, lack of leadership support, and low motivation. These findings highlight that barriers are interconnected and require systemic, multi-level interventions. Effective solutions should include context-relevant and collaborative PD models, strengthened leadership and school support,

inclusive policy frameworks, and strategies to enhance teacher motivation and agency. A shift from fragmented training to a sustainable culture of professional learning is essential for long-term educational improvement.

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