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# Understanding the Link Between INSET Attendance and Teaching Efficiency of High School Teachers

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#### **ABSTRACT**

Recognizing the importance of in-service education and training (INSET) for teacher development, this study investigated its effectiveness in enhancing teaching efficiency among high school teachers at Southern Baptist College. Employing a convergent mixed-methods design with twenty-three participants, the study revealed that high school teachers generally perceive in-service education and training (INSET) positively and value its effectiveness in enhancing teaching skills and practices, but there is no significant relationship between the frequency of attending INSET programs and teaching efficiency. The study identified five essential guidelines that include conducting targeted needs assessments, practical application, individualized professional development plans, ongoing mentoring, and data-informed evaluation systems. The result revealed that the programs of in-service education and training attended by high school teachers were the pedagogy workshops, subject-specific training, technology integration, assessment and evaluation and professional development designed to enhance teacher's teaching skills, subject knowledge, and classroom management techniques. Majority of the respondents attended the programs conducted by Southern Baptist College, Inc. The themes such as personal and professional growth, improved teaching effectiveness, enhanced mental abilities, positive workplace changes, transformative challenges, and emphasize collaborative approaches were drawn to address challenges and maximize benefits of ongoing professional development initiatives. Moreover, the effectiveness of inservice education and training (INSET) attended by high school teachers is perceived positively. The high school teachers in majority got Very Satisfactory in their teaching effectiveness. However, there is a weak positive correlation between the effectiveness of attending in-service training (INSET) and teaching efficiency of high school teachers. Thus, null hypothesis was not rejected.

**Keywords:** In Service Education and Training (INSET), Teaching Efficiency, Teaching Effectiveness, Frequency, Program, Guidelines

#### INTRODUCTION

The in-service education and training (INSET) programs had a favorable impact on educators in the sense that they improved educators' self-efficacy and effectiveness in delivering collaborative educational interventions for their pupils (Tzivinikou 2015). This implies that INSET can help high school instructors



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grow professionally and enhance their teaching practices. Junejo's (2017) agrees on the positive impact of INSET programs on educators' teaching performance by stating that teachers have positive perceptions regarding their own professional growth through the said programs. The results suggest that INSET programs have the ability to address teacher difficulties, increase professional growth, boost self-efficacy, and positively impact teaching performance.

According to Hervie and Winful (2018), a lack of in-service training is one of the reasons why teacher performance faces challenges, and this underscores the importance of INSET as a potential solution to address these critical shortcomings. Shah's (2011) research provided a contrasting viewpoint, implying that there is no significant difference in performance between trained graduate instructors who received INSET training and those who did not. Phin, (2014) revealed that competent teachers contribute to student learning and enhance the level of education quality, and teachers understand the relevance of INSET because it helps teachers become more confident in their profession by gaining people's respect and trust. With such demand, researchers wanted to investigate the effect of frequent in-service training on the teaching efficiency of high school teachers. It also aims to describe the experiences encountered by the high school teachers during their in-service education and training and its effect in their teaching performance.

#### **CONCEPTUAL FRAMEWORK**

This study conceptualizes the flow of the study showing the frequency of in-service education and training and its effectiveness. The experiences of the high school teachers in attending in-service education and training contributes the development of revise guidelines of INSET to improve teaching efficiency.

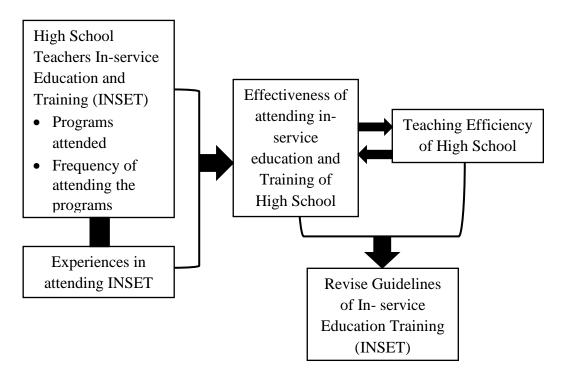


Figure 1 Conceptual Framework of the Study

#### REVIEW OF RELATED LITERATURE

This chapter presents the literatures related to the study which were taken from different sources.



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#### **In- service Education and Training (INSET)**

Positive impact of ongoing teacher training programs (INSET), demonstrating their effectiveness in enhancing teacher qualifications, boosting classroom performance, and nurturing educator motivation (Nzarirwehi & Atuhumuze, 2019; Osamwonyi, 2016). However, unlocking its full potential requires acknowledging both its advantages and the complexities of implementation.

On the positive side, from 2021 to 2024, the Department of Education (DepEd) issued key guidelines and programs for teacher In-Service Education and Training (INSET), DM No. 032, S. 2024. Adapting to the pandemic, virtual INSET was introduced, and five days were allocated for performance review and school-based INSET. These diverse program options addressed various needs, including national initiatives and crucial policy areas like child protection. These DepEd guidelines aimed to equip teachers with relevant skills, address educational priorities, and ultimately improve learning conditions and student outcomes. Active learning approaches like case studies and simulations were also employed, proving to be effective in enhancing teacher skills and knowledge compared to passive lectures (Bluestone et al., 2013). Repetitive interventions tailored to real-world settings demonstrably improved teaching practices and potentially contributed to better student outcomes (Bluestone et al., 2013). Furthermore, well-designed computer-based learning, aligned with DepEd guidelines, was found to be as effective and more cost-efficient than traditional instruction (Bluestone et al., 2013). Beyond skills development, teachers perceived INSET as valuable for professional development and gaining respect, ultimately boosting their confidence and motivation (Phin, 2014; Safi, 2015).

However, challenges must also be considered. Not all teachers benefit equally, with individual factors and negative training environments playing a role (Ayvaz-Tuncel & Çobanoğlu, 2018). While training improves teacher outcomes, a clear link between INSET and specific student achievement metrics remains elusive (Bluestone et al., 2013). Striking a balance between addressing individual development needs and aligning training with school-wide goals can be challenging (Bolam, 2012). Additionally, effective INSET programs require dedicated resources and incentives, which may not always be readily available (Nzarirwehi & Atuhumuze, 2019). Finally, teachers, particularly women and those with higher education, sometimes express concerns about insufficient trainer qualifications (Hervie & Winful, 2018).

Despite these challenges, teacher attitudes towards INSET are generally positive. Teachers express enthusiasm for professional development and actively seek participation in programs (Safi, 2015). While some point to scheduling, material clarity, and trainer qualifications as areas for improvement (Hervie & Winful, 2018; Phin, 2014), effective follow-up support is appreciated for facilitating the application of learned skills in the classroom (Phin, 2014).

In conclusion, INSET offers a powerful tool for enhancing teacher effectiveness and ultimately student outcomes. However, careful planning, strategic implementation, and continuous evaluation are crucial for navigating the challenges and maximizing the benefits. Addressing individual needs, focusing on evidence-based practices, and ensuring high-quality training environments are key to unlocking the full potential of INSET programs.

#### **Teaching Effectiveness**

Enhancing student learning requires considering various factors for effective teaching. Paolini (2015) stresses the strategic alignment of assessment, practices, styles, and feedback with institutional goals. Seidel & Shavelson (2007) highlight domain-specific teaching components and research design, while Kini & Podolsky (2016) emphasize teacher experience, supportive environments, and subject/grade/district expertise. De Vries et al. (2014) link teachers' beliefs and participation in Continuous



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Professional Development (CPD), and Tuytens & Devos (2014) suggest valuable feedback and school leader roles in boosting teacher evaluation's motivational impact. Maulana et al. (2015) explore factors influencing perceived teaching quality in induction programs.

Effective teaching offers distinct advantages and benefits. Paolini (2015) highlights alignment with student, program, and institutional needs, while Kini & Podolsky (2016) emphasize sustained student achievement gains and benefits for the school community. Munna & Kalam (2021) advocate for active learning, inclusivity, and elevated academic achievements, and Bolívar & Dávila (2016) showcase effective virtual learning strategies for the information age.

The impact on students and schools is multifaceted. Kini & Podolsky (2016) report sustained student achievement gains, while Munna & Kalam (2021) highlight elevated expectations and academic achievements. Fernández-García et al. (2019) explore how teacher experience positively impacts different teaching skill domains, influencing student perceptions. Bolívar & Dávila (2016) emphasize enhanced education through effective virtual learning strategies.

However, problems also exist. Fernández-García et al. (2019) identify varying student perceptions based on educational levels and teacher characteristics. De Vries et al. (2014) call for fostering teacher reflection alongside CPD participation, while Tuytens & Devos (2014) emphasize ensuring valuable feedback for teacher activation. Maulana et al. (2015) highlight the need to identify factors influencing teaching quality during induction programs.

In conclusion, effective teaching necessitates considering multiple factors, offers various advantages and benefits for students and schools, but also faces challenges that require ongoing attention and solutions.

#### **Teaching Efficiency**

Teaching efficiency emerges as a key player in shaping different areas of education. Studies by Bini & Masserini (2016) and Basher (2017) demonstrate how well-organized activities, clear information, and helpful materials, as seen in Google Classroom implementation, contribute to increased student satisfaction and enhanced learning outcomes, particularly in computer science. Nurturing a positive learning environment demonstrably leads to improved academic outcomes (Attique et al., 2019; Shahzad & Naureen, 2017).

Interestingly, teachers themselves play a significant role in fostering this efficient environment. Their self-efficacy, indicating their confidence in positively impacting students, plays a direct role in their success (Shahzad & Naureen, 2017). However, research by Bedir (2015) indicates that while teachers generally feel confident in areas like class management, they may require support in instructional methods.

Challenges do exist, however. Wanjala & Wanjala (2017) and Masbaño (2015) point to issues with time management and resource limitations, such as inadequate facilities and technology. Additionally, prospective teachers encounter distinct challenges, such as variations in individual student capabilities, relationships with supervisors and peers, and a deficiency in adequate preparation (Napanoy et al., 2021; Ganal et al., 2015). Even personal challenges like homesickness and financial adjustments can hinder their experience (Rabo, 2022; Ganal et al., 2015).

Addressing these challenges through in-service training, improved facilities, and emotional support becomes crucial in empowering both teachers and students. By recognizing the ripple effect of teaching efficiency and tackling the obstacles it faces, we can cultivate a more positive and effective learning environment for all.

#### **Statement of the problem**

This study aimed to construct new guidelines in implementing in-service education and training.



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Specifically, this study answered the following questions:

- 1. What are the programs of in-service education training attended by High School Teachers?
- 2. How frequent the High School Teachers attended the program of in-service educational training?
- 3. What are the experiences of the High School Teachers in attending in-service education and training?
- 4. What is the level of effectiveness of in-service education and training attended by High School Teachers?
- 5. What is the level of teaching efficiency of High School Teachers?
- 6. What is the significant relationship between the level of effectiveness in attending in-service education and training and level of teaching efficiency of High School Teachers?
- 7. Based on the findings, what are the new guidelines in the implementation of in-service education and trainings?

#### **Null Hypothesis**

There is no significant relationship between the level of effectiveness in attending in-service education and training and level of teaching efficiency of high school teachers.

#### Significance of the study

The findings of this study will be beneficial to the following:

#### 1. Administrators:

- **Resource Allocation:** Administrators can use the study's findings to make informed decisions about allocating resources for in-service training programs. If there is a positive result, administrators may prioritize and invest in high-quality professional development opportunities.
- **Strategic Planning:** The study can help administrators establish strategic plans for teacher professional development, ensuring that training programs meet the specific needs of their teachers and contribute to overall school progress.

#### 2. Teachers:

- **Professional Development Opportunities:** Positive findings may encourage teachers to actively participate in professional development programs, recognizing their potential to enhance teaching skills and effectiveness.
- **Motivation:** Positive result may motivate teachers to engage in continuous learning and seek out relevant training opportunities to improve their instructional practices.

#### 3. Students:

• Enhanced Teaching Quality: Improved teaching efficiency resulting from effective in-service education and training can positively impact student learning outcomes. Students may experience better-quality education and enhanced academic performance if their teachers benefit from well-designed professional development.

#### 4. Policy Makers:

- **Informed Decision-Making:** The study's findings may inform them about the development or revision of education policies related to teacher training. Positive relationship may encourage them to support and fund initiatives that promote ongoing professional development for educators.
- **Quality Assurance:** The study can contribute to the establishment of quality assurance mechanisms in teacher education. Policymakers can use the insights to ensure that in-service education and training programs align with broader educational goals and standards.



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#### 5. Researchers:

- Contributions to the Literature: The study can contribute valuable insights to the existing body of research on teacher professional development. Researchers may build upon these findings, exploring related topics and further refining our understanding of effective in-service training practices.
- **Methodological Advancements:** The research may introduce innovative methodologies for studying the impact of professional development on teaching efficiency, providing a model for future studies in the field.

#### **Scope and Delimitation**

This study determined the programs of in-service education and training attended by high school teachers and the frequency of attendance. It also described the experiences encountered and their impact. Further, it determined the relationship between the level of effectiveness in attending in-service education and training and the level of efficiency of the teachers. The respondents were the high school teachers of Southern Baptist College, Inc. The study utilized a mixed-methods research design using a convergent mixed-methods design. The data was gathered through a survey and an interview questionnaire. It also utilized documentary analysis in determining the teaching efficiency rating. The data were described and interpreted using inferential statistics and thematic analysis.

#### **Definition of Terms**

The following terms were defined operationally as how it was used in the study.

**Effectiveness** – refers to the degree to the improvements of high school teachers in their teaching performance.

**Frequency** – refers to the number of times attended by high school teachers in a particular event or activity conducted by administrator of Southern Baptist College, Inc. within a specified time period.

**In-service education and training** – refers to workshops, seminars, conferences, online courses, and on-the-job training attended by high school teachers of Southern Baptist College, Inc. High school department.

**Program** – refers to the professional development or in-service education, designed to enhance high school teachers' knowledge, skills, and teaching practices.

**Teaching Efficiency** – refers to the optimal utilization of instructional time, resources, and strategies to achieve learning outcomes.

**Guidelines** – refers to the established principles or instructions of the administrator designed to guide the implementation and conduct of in-service education and training programs for high school teachers of Southern Baptist College, Inc.

#### **METHODOLOGY**

This chapter presents the methodologies that were used by the researchers. It includes the research design, research locale, respondents of the study, sampling techniques, research instrument, and statistical treatment of the data.

#### **Research Design**

The researchers employed a Convergent mixed-methods design. Convergent mixed method was used to examine the relationship between the effectiveness of attending in-service education and training and the teaching efficiency of high school teachers at Southern Baptist College, Inc., in M'lang, Cotabato. The convergence of these data sources will allow for a comprehensive analysis that captures both the statistical relationships and the contextual nuances, ultimately informing educational policymakers and practitioners



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about the effectiveness of in-service education and training in enhancing teaching efficiency in high schools.

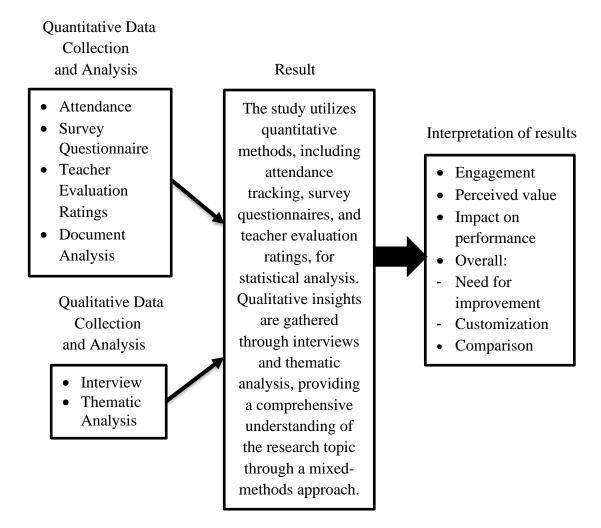


Figure 2 Schematic Diagram of Research Design

The study employs a convergent mixed-method design, combining quantitative and qualitative data collection and analysis. Quantitatively, attendance and participation in the INSET program are recorded and statistically analyzed using mean, percentage, and correlation tests, while teacher evaluation ratings are derived from formal assessments covering various dimensions. On the qualitative side, one-on-one interviews with high school teachers are conducted, exploring their experiences in the program and perceived impact on teaching efficiency. Thematic analysis is then applied to identify and analyze emerging themes from teachers' reported experiences and perceptions.

#### **Research Locale**

The study was conducted in the high school department of Southern Baptist College, Inc. (SBC) in M'lang, Cotabato. SBC is a Christian educational institution offering a diverse range of academic programs. From nursery and kindergarten to elementary and high school, the college provides a continuum of education. At the higher education level, students can pursue studies in liberal arts, education, business education, information technology, theology, and health-related courses. This Christian institution lives out the ideals



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of truth, faith, and service and emphasizes a holistic approach to education, integrating faith-based values across disciplines to nurture both academic and spiritual growth in its students.

#### Respondents of the Study

The researcher gathered data from the identified high school teachers of Southern Baptist College, Inc., M'lang, Cotabato. There were twenty-three (23) high school teachers in total numeration with a balanced gender distribution of 6 males and 17 females. Subject expertise is well represented, including 4 English, 3 Mathematics, 3 Science, 3 Filipino, 5 Social Studies, 2 TLE, 2 MAPEH, and 1 business-related subject teacher. The age range spans from 22 to 60, providing a mix of experience and perspectives. Almost half of the teachers are single, and the rest are married. All staff members are licensed professionals, reflecting SBC's commitment to delivering high-quality education.

#### **Research Instruments**

In this study, a comprehensive research instrument was employed to systematically evaluate the relationship between effectiveness in attending INSET and teaching efficiency of high school teachers. The researchers utilized a set of adopted questionnaires, with Part 1 and Part 2 derived from Safi's (2015), specifically designed to gather data on the frequency of in-service education and training programs and their teaching effectiveness. Part 3 of the questionnaire was constructed using retrieved data from Southern Baptist College Inc., "Teacher Performance Evaluation Instrument" to determine the teaching efficiency. To enhance the depth of the study, validated questions for interviews were sourced from the Procedures Guide of Training and Development System by the Federal Authority for Government Human Resources (n.d.), specifically from sections 15 to 18, under the title "Questionnaire on Training Effectiveness" available at https://www.fahr.gov.ae/Portal/Userfiles/Assets/Documents/dd82835.pdf.

Moreover, in-depth and focused group discussion were done to gather the experiences and impacts of attending the programs of in-service education and training. The rating scale of the questionnaire ranged from 5- Outstanding; 4- Very Satisfactory; 3- Average High, 2- Average Low; 1- Needs Improvement.

#### **Data Gathering Procedure**

Before the researchers gathered data, they sought first the permission of the high school principal and wrote a letter of intent to get a record of the teachers' teaching efficiency rating. Upon receiving permission for a scheduled vacancy among the teachers, researchers immediately conduct the survey questionnaire contains programs attended, frequency of attending, teaching effectiveness in attending the in-service education and training, and teaching effectiveness of high school teachers. To acquire additional information, an interview was employed that aimed to seek experiences and impact of attending INSET among respondents. After the respondents completely answered the questionnaires, they immediately retrieved the needed data and analyzed it through statistical tools. Further, the answers from the in-depth and focused-group interviews were interpret through thematic analysis.

#### **Statistical Analysis**

The researchers employed different statistical tools for assessing the questions given in the study. A descriptive analysis was used to describe the data. The frequency distribution of data is used to calculate the frequency and percentage of data from various perspectives. To correlate the relationship between the two variables, the Pearson r was used through Jamovi, an open-source statistical software. And for the hypothesis test for r, which allows the researcher to decide whether the observed r could have emerged by chance or not, standardized t statistics were used. On the basis of the analysis, findings were drawn, conclusions were reached, and recommendations were made accordingly.



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#### Presentation, Analysis, and Interpretation of the Data

This chapter deals with the presentation, analysis, and interpretation of the data gathered in this study. The various results are presented in the succeeding tables with corresponding discussions and explanations. It also answers specific problems stated in the previous chapter.

#### The Programs of INSET

The DM-OUHROD-2024-0037, entitled "Guidelines for the In-Service Training of Teachers (INSET) for the School Year 2023-2024," is scheduled in accordance with the specifications outlined in DepEd Order No. 22, s.2023, or the "Implementing Guidelines on the School Calendar and Activities for the School Year 2023-2024."

#### DepEd's In-Service Education and Training (INSET) Programs:

As outlined in DepEd Order No. 034 s. 2022, the mid-year break for the school year 2022-2023 is allocated for the conduct of the Midyear Performance Review and Evaluation, along with the School-Based INSET. Focusing on the programs of the National Educators Academy of the Philippines (NEAP) Central Office, the INSET programs for the school year 2023 include:

- 1. **Higher Order Thinking Skills Professional Learning Packages (HOTSPLP):** Targeting English, Mathematics, and Science educators, this program aims to enhance teachers' skills in promoting higher-order thinking among students.
- 2. **Instructional Leadership Training (ILT):** This program focuses on strengthening learning conditions for early literacy, emphasizing the crucial role of instructional leaders in fostering a conducive learning environment.

At the School Division Office (SDO) level, the INSET prioritizes addressing teachers' learning needs, disseminating information on policies, and emphasizing key educational programs for professional development.

The programs offered by Southern Baptist College, Inc., High School Department focused on the programs and guidelines of the Private Education Assistance Committee (PEAC) and Association of Christian Schools, Colleges and Universities (ACSCU – ACI) for the school year's in-service education and training.

#### PEAC's INSET Programs for 2022 and 2023:

The PEAC INSET programs for both junior high school subjects and senior high school core subjects offer a comprehensive approach to professional development. In 2022, the theme "Engaging students to be reflective and self-directed learners in their achievement in K to 12 learning outcomes in the new normal" underscores the importance of adaptability and reflective teaching practices in the face of changing educational landscapes.

For 2023, the INSET for junior high school focuses on "Achieving student's mastery and differentiating instruction for standard-based learning recovery," emphasizing personalized approaches to address varying learning needs. The senior high school theme, "Assessing students' learning through a performance task reflective of the four exits of the K to 12 program in a volatile, uncertain, complex, and ambiguous (VUCA) world," reflects the need to prepare students for challenges in a rapidly changing world.

The In-Service Education and Training (INSET) programs offered by the Department of Education (DepEd) and the Private Education Assistance Committee (PEAC) implies a thematic alignment in emphasizing a reflective teaching practices and student mastery for a potential collaboration and knowledge. Addressing the preparation of students for a volatile, uncertain, complex, and ambiguous



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(VUCA) world suggests a forward-looking perspective. It implies an acknowledgment of the necessity for educators to equip students not only with academic knowledge but also with critical skills and resilience to navigate the challenges of an ever-changing global landscape. The existence of common goals opens the door for a more integrated and cohesive approach to professional development, fostering a sense of unity and shared purpose within the education community that can contribute to the creation of a unified vision for education that addresses both current challenges and future uncertainties.

#### Frequency of in-service education and training attended by high school teachers

The findings presented in Table 2 regarding the frequency of attending in-service education and training revealed that a substantial majority of teachers, comprising 57%, attend such sessions two to three times a year. Concurrently, a notable minority of 13% attend in-service training only once.

The result implied that teaching profession generally demonstrates a commitment to ongoing learning, as evidenced by the vast majority of thirteen 13 or 56.52%) out of twenty-three (23) OR 56.52% high school teachers attending in-service education multiple times a year. However, attention may need to be directed toward the minority of three (3 or 13.04%) of teachers who participate less frequently in order to ensure that all teachers have equitable access to and engagement with professional development opportunities.

Positive trend and regular engagement in in-service training can contribute on various aspects of professional development (Mahmood (2022) and Mirrezaei (2018)). According to Sanetti (2018), a segment of teachers with less frequent participation to INSET highlighted areas where improvements or targeted interventions may be needed to provide opportunities for skill development and ongoing implementation support.

Table 2. Frequency in attending In-service Education and Training

1. How often have you attended in-service training program	Frequency	Percentage
in the past year?		
Never	0	0%
Once	3	13.04%
2 -3 times	13	56.52%
4-6 times	7	30.44%
More than 6 times	0	0%

#### **Experiences of High School Teachers attending In-service Education and Training**

Participants view in-service education and training (INSET) as more than just a mandatory obligation; they see it as a valuable chance for both personal and professional development. INSET positively impacts teachers by addressing immediate needs, influencing the classroom environment, and improving overall educational outcomes. It emphasizes the significance of ongoing professional development in empowering educators to navigate the dynamic landscape of education successfully. A well-designed INSET program is crucial for teacher satisfaction, ensuring relevance to their roles, and fostering a sense of purpose and professional identity. Ultimately, INSET contributes to the improvement of teaching effectiveness, adaptability, addressing diverse learning needs, fostering collaboration, creating positive learning environments, and instilling a commitment to continuous improvement and lifelong learning among educators.

Table 3 show the experiences of high school teachers attending in-service education and training (INSET). Based on the conducted in- depth interview group, experiences reveal a multi-faceted landscape shaped



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by six key themes: personal growth, improvement, mental ability, positive changes, transformation, and collaboration.

Personal growth emerges as a primary motivation for educators engaging in INSET programs that offers fertile ground to nurture their skills, stay abreast of educational trends, and refine their teaching effectiveness. Participating in INSET also facilitates improvement by providing avenues to acquire new knowledge and teaching methodologies that continuous the learning process to fuels their professional development. Mental ability underscores the satisfaction derived from INSET programs by enhancing critical thinking, problem-solving, and creativity skills among educators. This augmentation not only enriches the teaching experience but also contributes to a more fulfilling professional journey.

Moreover, the application of acquired knowledge or skills yields positive changes in the workplace. These changes manifest as increased efficiency, improved teamwork, enhanced communication, and a more supportive atmosphere. Such transformations foster heightened productivity, job satisfaction, and organizational success.

However, navigating the INSET landscape isn't without its challenges. Encountering obstacles often necessitates personal and professional transformations, reflecting the dynamic nature of education. Educators must adapt to new methodologies, overcome hurdles, and cultivate resilience to effectively engage with INSET initiatives.

Amidst these challenges, collaboration emerges as a vital tool for coping and overcoming complexities. By fostering collaborative efforts, including sharing expertise, seeking feedback, and providing ongoing support, educators can address challenges more efficiently and create a positive learning environment conducive to professional development.

In essence, experiencing INSET encompasses a journey of growth, improvement, and adaptation. Through the cultivation of mental abilities, facilitation of positive changes, and collaborative approaches to overcoming challenges, educators emerge equipped to navigate the ever-evolving landscape of education with confidence and efficacy.

Participants recognize in-service education and training (INSET) as pivotal for personal and professional growth, viewing it as more than a mandatory requirement. They emphasize its positive impact on educators' skills and classroom environments, highlighting the transformative effects on workplace dynamics and organizational success. Moreover, they stress the importance of collaborative approaches in addressing challenges and maximizing the benefits of ongoing professional development initiatives.

Table 3. Experiences of High School Teachers attending In-service Education and Training (In-depth Interview)

Questions	Answers	Theme	Interpretation
1. What	R1 – I participated INSET to	Personal	Participants in these
motivated	actively contribute to my	Growth	responses see INSET not
you to	professional development because		just as a mandatory
participate	it provides me with opportunities		obligation but as a
in the in-	to enhance my skills and stay		valuable opportunity for
service	updated on educational trends".		personal and professional
education	R2 – to learn new ideas that can		growth, ensuring they are
and	be applied to my daily teaching.		well-equipped to meet
			the evolving demands of



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training	D2 It anhances my skille as		education and contribute
training	R3 – It enhances my skills as		
programs?	teacher to thrive in many		effectively to their roles
	challenges of varied generations.		as educators.
	R4 – to stay updated on the latest		
	educational trends, research, and		
	advancements in their subject		
	areas		
	<b>R5</b> – for professional upgrading		
	and is likely to refresh us.		
	R6 – to stay compliant with		
	professional development		
	expectations and maintain the		
2 11 4	credentials.	T .	
2. How the	R1 - educators acquire new skills	Improvement	The positive impact of
experiences	and making them more effective		INSET is multifaceted. It
in INSET	in the classroom.		not only addresses the
helps your	R2 – It enhances teaching		immediate needs of
professiona	effectiveness.		teachers by providing
l daysalammaa	R3 – It boost my confidence that		them with updated
developme	positively impacts my classroom		knowledge and skills but
nt?	management and instructional		also has a ripple effect on
	delivery.		the classroom
	<b>R4</b> – Learned new strategies that		environment, student
	better cater different learning		engagement, and overall educational outcomes. It
	styles and address the unique		
	needs of my students.		emphasizes the role of
	<b>R5</b> – To acquire strategies for		ongoing professional
	managing classroom behavior and		development in
	promoting a positive classroom		empowering educators to
	environment.		navigate the dynamic
	<b>R6</b> – It promotes digital literacy		landscape of education
3. What	among educators.	Mental	successfully.  Teachers' satisfaction
specific	<b>R1</b> - Interactive and engaging content.	Ability	with in-service education
aspects of	R2 – New knowledge and	Aumty	and training programs is
the in-	developed creativity in mind in		positively influenced by
service	dealing with student.		the programs' capacity to
education	R3 - Skills and professional		stimulate mental
and	development		abilities, fostering critical
training	<b>R4</b> - facilitators, accommodation,		thinking, problem-
programs	content and the support given by		solving, and creativity,
contributed	our administrators		ultimately contributing to
to your	our administrators		diamatery continuing to
to your			



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satisfaction	D5 Clearly defined chiestives		o more fulfilling
	R5 - Clearly defined objectives		a more fulfilling
?	and expected outcomes		professional experience.
	<b>R6</b> - knowledgeable and		
	experienced instructors or		
	facilitators		
4. Have you	R1 – Yes, it frequently addresses	Positive	Training on
been able	the integration of technology in	Changes	professional
to apply the	the classroom.		responsibilities
knowledge	<b>R2</b> – Yes, it creates a positive and		denotes a
or skills	productive learning environment.		transformative shift in
acquired	R3 – Yes, it emphasizes		the workplace. It
from the	understanding and		increased efficiency,
training in	accommodating diverse learning		enhanced teamwork,
your	styles.		improved
professiona	<b>R4</b> – Yes, it enhanced		communication, and a
1	collaboration and communication.		more supportive
responsibili	<b>R5</b> – Yes, it handles discipline		atmosphere, that leads to
ties? If so,	issues and foster positive		heightened productivity,
could you	behavior.		job satisfaction, and
provide	<b>R6</b> – Yes, it creates a supportive		overall organizational
examples	atmosphere for student learning.		success.
of the			
impact on			
your work?			
5. What are	R1 – Less interactive activities.	Transformati	The inherent challenges
the	<b>R2</b> – Lack of proper evaluation.	on	encountered in engaging
challenges	<b>R3</b> – no follow ups		with and implementing
you have	<b>R4</b> – programs occur during		INSET encompass
encountere	regular working hours		various aspects which
d in	<b>R5</b> – adopting new practices.		underscore the
attending	<b>R6</b> – Resistance to change (in		complexities involved in
INSET?	terms of technology		fostering effective
	advancement)		professional
	,		development initiatives.
How you	R1 – share with the group your	Collaboratio	Utilizing a collaborative
cope the	expertise	n	strategy to tackle the
challenges?	R2 – have regular feed backing		obstacles faced during
	on the effectiveness of INSET		participation in INSET
	sessions		sessions, underlining the
	R3 – monitor the progress plan to		significance of
	sustain and continue the		exchanging expertise,
	improvements.		soliciting consistent
	•		feedback, tracking



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	R4 – Considering availability and workload R5 – Foster a positive and supportive learning environment R6 – Provide ongoing support and coaching		advancements, taking into account availability and workload, nurturing a constructive learning atmosphere, and offering continuous support and guidance.
Comments	R1 – stay updated with the latest	Professional	Educators recognize the
	teaching methodologies and	Development	significance of ongoing
	educational trends		professional
	<b>R2</b> – Addressing teaching		development in their
	challenges by offering practical		practice, acknowledging
	strategies and resources.		the value of staying
	R3 – INSET tend to have more		current with teaching
	engaged and effective teaching		methodologies and
	style/ activities.		trends, addressing
	<b>R4</b> – feedbacks and follow up		challenges with practical
	helps educators reflect on their		strategies, enhancing
	practices, growth, and		teaching effectiveness,
	development tailored to their		and utilizing feedback for
	needs.		personalized growth.

#### Effectiveness of attending in-service education and training

Table 4 shows that the effectiveness of attending in-service education and training (INSET) is generally perceived as effective by the participants. The respondents assigned the highest mean of 4.48, or a very high level of effectiveness, which explains that there is a comprehensive and impactful experience in attending INSET to the notion that the methods employed by the trainers were useful. This indicates a positive perception of the instructional strategies and approaches utilized during the training sessions. On the other hand, the lowest mean of 2.96, or moderate level of effectiveness, indicates a satisfactory impact on the teachers' participation in INSET programs had no role in the teacher grading system. This finding implies that educators generally find in-service education and training (INSET) to be effective, particularly in terms of the instructional strategies and approaches employed during the training sessions. This positive perception indicates that educators value the methods utilized by trainers to enhance their professional development. However, the relatively low mean attributed to the belief that participation in INSET programs has no impact on the teacher grading system highlights a potential area for improvement in aligning professional development efforts with performance evaluation systems. Gao (2017) emphasizes that the lack of recognition or impact on their professional standing may be a key factor influencing their relatively lower enthusiasm levels.

The overall mean of 3.942, or high level of effectiveness, suggest a positive overall outcome from attending INSET. The participants found the training valuable, relevant, and impactful in improving practical skills and teaching practices (Zheng, 2013; Drushlyak, 2021). Atay (2006) further supports



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the idea that attending INSET programs positively impacts the enhancement of professional development. Tailored INSET programs effectively address challenges and improve teachers' competency and confidence in handling diverse classroom environments, contributing to their overall performance and professional growth (Sari, 2007).

Table 4. Effectiveness of attending in-service education and training

Indicators		Verbal
		Description
1.The method used by the trainers were useful	4.48	Very High
2.The training site was selected in accessible area	4.09	High
3. Feedback were provided by the trainers to the	3.96	High
participants		
4.The skills and knowledge you learned in training	4.22	Very High
program is applicable in the classrooms		
5.Participation in INSET programs had no role in teacher	2.96	Moderate
grading system, and it is one of the main		
reason for low rate of enthusiasm for participation		
OVERALL MEAN	3.942	High

Legend:	Mean Range	Verbal Description
	4.20-5.00	Very High
	3.40-4.19	High
	2.60-3.39	Moderate
	1.80-2.59	Low
	1.00-1.79	Very Low

#### **Teaching Efficiency**

The quest to improve the learning experience through the use of innovative techniques and specialized solutions. It goes beyond traditional approaches, stressing deep learning, critical thinking, and diversity to address students' different needs in today's fast-changing educational context.

Table 5 shows the teaching efficiency of high school teachers at Southern Baptist College, Inc. The data revealed a mean of 3.95, which explains that the teaching efficiency of high school teachers is very satisfactory. Out of 23 high school teachers, there were three (3) got a rating of Outstanding and twenty (20) had the rating of Very Satisfactory. It implies that the high school teachers prioritize thorough lesson preparation before engaging with their classes. This involves their commendable skill in pinpointing individual students' needs, interests, and abilities, analyzing learning tasks, devising and testing suitable strategies and materials tailored to students' requirements, adequately preparing for daily learning activities, and demonstrating ongoing professional and cultural development.

The result was supported by Opdenakker (2006), who found that employing a learner-centered teaching approach and demonstrating strong classroom management skills and effective classroom practices thereby enhanced teaching efficiency. Utilizing effective teaching practices, including adept classroom management and instructional strategies, is pivotal for attaining a highly satisfactory teaching efficiency rating (Stronge, 2011). Furthermore, the quality and readiness of teachers significantly contribute to this



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outcome, as well-prepared and qualified educators tend to garner higher ratings (Lewis, 1999). Moreover, teacher efficacy, defined as the confidence in one's capacity to positively influence student learning, emerges as a critical factor influencing teaching efficiency (Kleinsasser, 2014).

Table 5. Teaching Efficiency of High School Teachers in Southern Baptist College Incorporated

<b>High School Faculty</b>	Efficiency Rating for Sy 2022-2023	Verbal Description	
1	4.20	Very satisfactory	
2	3.96	Very satisfactory	
3	4.09	Very satisfactory	
4	4.01	Very satisfactory	
5	3.94	Very satisfactory	
6	3.90	Very satisfactory	
7	3.65	Very satisfactory	
8	3.84	Very satisfactory	
9	3.95	Very satisfactory	
10	3.95	Very satisfactory	
11	4.25	Outstanding	
12	3.86	Very satisfactory	
13	3.79	Very satisfactory	
14	3.53	Very satisfactory	
15	3.71	Very satisfactory	
16	4.22	Outstanding	
17	4.40	Outstanding	
18	3.94	Very satisfactory	
19	3.60	Very satisfactory	
20	4.02	Very satisfactory	
21	4.17	Very satisfactory	
22	4.00	Very satisfactory	
23	3.85	Very satisfactory	
Overall Mean	3.95	Very satisfactory	

Legend:

Rating	Description
4.21-5.00	Outstanding
3.41-4.20	Very Satisfactory
2.61-3.40	Satisfactory
1.81-2.60	Good
1.00-1.80	Poor



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# The Relationship between the level of Effectiveness in attending In-service Education and Training and Level of Teaching Efficiency of High School Teachers

The table 6 shows the relationship between level of effectiveness in attending INSET and teaching efficiency of high school teachers. The correlation coefficient (r) of 0.229 suggests a weak positive correlation between the effectiveness of the frequency of in-service training and teaching efficiency. However, the p-value of 0.294 indicates that this correlation is not statistically significant at the conventional significance level of 0.05.

Since the p-value is greater than 0.05, we cannot reject the null hypothesis, which states that there is no significant relationship between the frequency of attending in-service trainings and teaching efficiency. In other words, based on the available data, the extent of attending in-service education and training have a little influence in the teaching efficiency of high school teachers of Southern Baptist College, Inc. High School Department.

The extent of attending INSET (In-Service Education and Training) may not directly correlate with teaching efficiency (Ross, 1994; Waters, 2006; Somers, 2002). Rather, the utilization of INSET knowledge and the structure of the INSET programs, including the nature of course components and school-based follow-up activities, emerge as more influential factors (Ross, 1994; Waters, 2006). Moreover, the impact of INSET on teachers' practices can vary depending on the content of the courses and the working conditions provided (Somers, 2002).

Table 6. Relationship between Level of Effectiveness in attending In-service Education and Training and Level of Teaching Efficiency

VARIABLES	r	p-value	Degree of	Level of	Decision
			Relationship	Significance	
Effectiveness of					
Frequency of In-	0.229	0.294	Weak	Not	H <sub>o</sub> not
service Training			Relationship	Significant	rejected
Teaching					
Efficiency					

#### **Proposed New Guidelines of INSET**

Training (INSET) serves the purpose of enhancing the effectiveness, relevance, and impact of the training program. These guidelines were developed to align with evolving educational policies, technological advancements, and changing student needs. They aim to improve teacher effectiveness by providing updated strategies, methodologies, and tools for classroom instruction. The new guidelines also emphasize the importance of continuous professional development, encouraging a culture of lifelong learning among teachers. Additionally, they address the specific context and challenges of the educational institution, promoting inclusivity and equity in education. The introduction of new guidelines ensures that the training remains responsive to emerging trends, fostering a dynamic and adaptive approach to teacher development in the ever-evolving field of education.

Based on the data gathered, there are five essential guidelines for conducting an effective in-service education and training (INSET) program aimed at enhancing teaching efficiency.

1. conducting a targeted needs assessment ensures that the INSET content addresses specific areas requiring improvement;



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- 2. placing a strong emphasis on practical application ensures that the skills and knowledge gained are immediately relevant to the classroom setting;
- 3. implementing individualized professional development plans empowers educators to set personalized goals aligned with their unique needs and strengths;
- 4. providing ongoing mentoring and support helps educators navigate the implementation of new strategies and overcome challenges;
- 5. employing a data-informed evaluation system allows for the assessment of INSET's impact on teaching efficiency, enabling program refinement and continuous improvement.

By adhering to these guidelines, educators can design and deliver INSET programs that foster continuous growth and excellence in teaching practice.

#### **Summary of Findings, Conclusions, and Recommendations**

This chapter presents a summary of key issues, conclusion and offers some recommendations based on the study findings. On the basis of the presented findings and information, the chapter shows the implication of the study findings and practice regarding in-service education and training (INSET) in secondary schools. The chapter ends by identifying new areas that prospective researchers may wish to explore more.

#### **Summary of Findings**

Based on the data gathered, the researchers had come up with these findings:

- 1. The programs of in-service education and training attended by high school teachers were the pedagogy workshops, subject-specific training, technology integration, assessment and evaluation and professional development designed to enhance teacher's teaching skills, subject knowledge, and classroom management techniques.
- 2. Majority of high school teachers attended 2-3 times the in-service education and training (INSET) programs conducted by Southern Baptist College, Inc.
- 3. High school teachers attending INSET experience a multi-faceted landscape shaped by six key themes: personal and professional growth, improved teaching effectiveness, enhanced mental abilities, positive workplace changes, transformative challenges, and emphasize collaborative approaches to address challenges and maximize benefits of ongoing professional development initiatives.
- 4. The effectiveness of in-service education and training (INSET) attended by high school teachers is perceived positively overall as to enhance their professional development and teacher standing.
- 5. The level of teaching efficiency of high school teachers in majority was Very Satisfactory that indicates thorough lesson preparation and demonstrate commendable skills.
- 6. There is a weak positive correlation between the effectiveness of attending in-service training (INSET) and teaching efficiency of high school teachers. Therefore, there is no significant relationship between the frequency of attending in-service trainings and teaching efficiency which hypothesis was not rejected at 0.05 level of significance.
- 7. There were five essential guidelines for effective implementation of in-service education and training (INSET) programs that aimed to enhance teaching efficiency. These include conducting targeted needs assessments, emphasizing practical application, implementing individualized professional development plans, providing ongoing mentoring and support, and employing data-informed evaluation systems to assess impact and ensure continuous professional growth.



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#### **Conclusions**

Based on the findings, the researcher concluded that the extent of attending in-service education and training does not guarantee effective and efficient teaching performance. Teachers themselves engage in diverse in-service education and training programs, perceiving them positively for enhancing teaching skills. While there's no significant correlation between frequency of participation and teaching efficiency, implementing targeted needs assessments and individualized professional development plans could optimize the impact of such programs, emphasizing ongoing support and data-informed evaluation for continuous professional growth.

#### Recommendation

- 1. Programs of in-service education and training (INSET) attended by high school teachers enhance teaching skills, subject knowledge, and classroom management techniques. Thus, it should be developed and enhanced by policy makers and educational institutions, creating more effective and engaging INSET programs that meet the diverse needs of teachers through the effective implementation of new guidelines.
- 2. The effectiveness of attending INSET shows a weak positive correlation with the teaching efficiency of high school teachers. Thus, it should be improved by requiring attendance for INSET participation every year.
- 3. Teachers are encouraged to have on-going participation in professional development opportunities like INSET through the financial help and support of the school, administrators, and other stakeholders.
- 4. School administrators should connect constantly with the teachers and support them in any endeavor to develop and maximize their professional potential and growth, which contributes to overall school progress.
- 5. Conduct a longitudinal study tracking teachers' participation in INSET programs over several years and assessing their teaching efficiency through various metrics such as student performance, classroom observations, and student feedback.

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