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Validation of the self-assessment questionnaire of the context of practice and self-efficacy towards the inclusion of LGBTIQ+ people in higher education

Validación del cuestionario de autoevaluación del contexto de práctica y autoeficacia hacia la inclusión de personas LGBTIQ+ en educación superior

Validação do questionário de autoavaliação do contexto de prática e da autoeficácia relativamente à inclusão de pessoas LGBTIQ+ no ensino superior

高等教育中包容 LGBTIQ+群体实践情境与自我效能自评问卷的验证

في التعليم العالى (+LGBTIQ) حقق من صحة استبيان التقييم الذاتي لسياق الممارسة والكفاءة الذاتية نحو إدماج أفراد مجتمع الميم

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Abstract

This paper aims to present the results of the process of construct validation of the Self-Assessment Questionnaire in the context of practice and self-efficacy of education students towards including LGBTIQ+ people in higher education. It is based on an instrumental study of undergraduate and master's degree students in education at Spanish universities, involving a sample of 334 students in the pilot study. Two procedures were used for construct validation: exploratory factor analysis (EFA) and confirmatory factor analysis (CFA). Cronbach's Alpha coefficient was used to establish reliability. The results of the AFE point to six factors in the CONTEXT OF PRACTICE scale (Activities and resources, Faculty policy, Practicum, Classroom climate, Institutional climate, Curriculum) and two factors in the SELF-EFFICIENCY scale (Curriculum design and development and Problem management). The CFA shows satisfactory levels of final fit. In this regard, we conclude that the two subscales of the questionnaire considered, in light of the evidence provided, can be considered valid, while also indicating the robustness of the instrument for the purposes of understanding the context of educational practices and self-efficacy in the training of education professionals in relation to attention to gender diversity.

Keywords: LGBTIQ+, students, higher education, inclusion, validity, reliability.

Resumen

El objetivo de este trabajo es presentar los resultados del proceso de validación de constructo del Cuestionario Autoevaluación del contexto de práctica y autoeficacia de los estudiantes de educación hacia la inclusión de personas LGBTIQ+ en educación superior. La investigación se inscribe dentro de los estudios instrumentales; la población de referencia son estudiantes de los grados y másteres de educación de facultades españolas; la muestra del pilotaje del cuestionario es de 334 estudiantes. Para la validación de constructo se recurrió a dos procedimientos: el análisis factorial exploratorio (AFE) y el análisis factorial confirmatorio (AFC). Para establecer la fiabilidad se ha utilizado el coeficiente Alpha de Cronbach. Los resultados del AFE apuntan a seis factores en la Escala de CONTEXTO DE PRÁCTICA (Actividades y recursos, Política Facultad, Prácticum, Clima aula, Clima institucional, Plan de estudios) y a dos factores en la de Escala de AUTOEFICACIA (Diseño y desarrollo Curricular y Gestión de problemáticas). El AFC muestra unos niveles de ajuste final satisfactorios. Se concluye que el Cuestionario, a la luz del proceso de diseño y validación desarrollado, se constituye en un instrumento robusto, fiable y válido para conocer el contexto de las prácticas educativas y la autoeficacia en la formación de los profesionales de la educación en relación con la diversidad sexo-genérica y su inclusión en el perfil académico.

Palabras clave: LGBTIQ+; estudiante; educación superior; inclusión; validez; fiabilidad.

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Resumo

O objetivo deste trabalho é apresentar os resultados do processo de validação de constructo do Questionário de Autoavaliação do contexto de prática e autoeficácia dos estudantes de educação relativamente à inclusão de pessoas LGBTIQ+ no ensino superior. A investigação insere-se no âmbito dos estudos instrumentais; a população de referência são estudantes de licenciaturas e mestrados de educação de faculdades espanholas; a amostra-piloto do questionário é de 334 estudantes. Foram utilizados dois procedimentos para a validação do constructo: a análise factorial exploratória (AFE) e a análise factorial confirmatória (AFC). O coeficiente Alfa de Cronbach foi utilizado para determinar a fiabilidade. Os resultados da AFE apontam para seis fatores na Escala de CONTEXTO DE PRÁTICA (Atividades e recursos, Política da faculdade, Prácticum, Ambiente na sala de aula, Ambiente institucional, Plano de estudos) e para dois fatores na Escala de AUTOEFICÁCIA (Conceção e desenvolvimento curricular e Gestão de problemas). A AFC apresenta níveis satisfatórios de ajuste final. Conclui-se que o Questionário, à luz do processo de conceção e validação desenvolvido, é um instrumento robusto, fiável e válido para conhecer o contexto das práticas educativas e da autoeficácia na formação dos profissionais de educação em relação à diversidade sexo-genérica e à sua inclusão no perfil académico.

Palavras-chave: LGBTIQ+, estudante, ensino superior, incluso, validade, fiabilidade.

摘要

本研究旨在呈现《高等教育学生包容 LGBTIQ+群体的实践情境与自我效能自评问卷》构念效度验证的全过程。该研究属于工具性研究,目标人群为西班牙师范学院本科学位及硕士学位的教育类学生,问卷预测试样本为334名学生。构念效度的验证采用了探索性因子分析(EFA)和确认性因子分析(CFA)两种方法,信度评估采用了 Cronbach α 系数。EFA 结果显示,"实践情境"量表包括六个因子(活动与资源、院系政策、教学实习、课堂氛围、机构氛围及课程方案),而"自我效能"量表包括两个因子(课程设计与开发、问题管理)。CFA 分析表明模型最终拟合度令人满意。综上所述,该问卷经设计与验证流程后,已成为评估教育实践情境以及教育专业人员针对性别多样性包容性和学术能力自我效能的重要、可靠且有效的测评工具。

关键词: LGBTIQ+, 学生, 高等教育, 包容性, 效度, 信度。

ملخص

يهدف هذا العمل إلى عرض نتائج عملية التحقق من صدق البنية لمقياس الاستبيان الخاص بالتقويم الذاتي لسياق الممارسة والكفاءة الذاتية لطلبة التربية نحو تندرج هذه الدراسة ضمن البحوث الأداتية، وتتمثل الفئة المستهدفة في طلبة درجات في التعليم العالي (+LGBTIQ) إدماج الأشخاص من مجتمع الميم البكالوريوس والماجستير في كليات التربية الإسبانية، وبلغت عينة المرحلة التجريبية للاستبيان 334 طالبًا وطالبًا وللتحقق من صدق البنية، تم استخدام كما تم اعتماد معامل ألفا كرونباخ لتحديد مستوى الثبات. وتشير نتائج (CFA) والتحليل العاملي التوكيدي (EFA) إجراءين: التحليل العاملي الاستكشافي التحليل العاملي الاستكشافي التحليل العاملي الشوكيدي المناخ داخل الصف، المناخ المناخ داخل الصف، المناخ المؤسسي، المنهج الدراسي)، وعاملين اثنين في مقياس الكفاءة الذاتية (تصميم وتطوير المناهج وإدارة الإشكاليات). أما نتائج التحليل العاملي التوكيدي فقد المؤسسي، المناج ملاءة لويات ملاءمة نهائية مُرضية. وبناءً على ما سبق، يمكن الاستنتاج أن الاستبيان يُعد أداة قوية وموثوقة وصادقة لقياس سياق الممارسات التربوية والكفاءة الذاتية في تكوين المهنيين التربويين فيما يتعلق بالتنوع الجندري والجنسي وإدماجه في التكوين الأكاديمي

الكلمات المفتاحية:(+LGBTIQ) الكلمات المفتاحية: الطلبة؛ التعليم العالى؛ الإدماج؛ الصدق البنائي؛ الثبات؛ التحقق من الصلاحية؛ مجتمع الميم

Introduction

UNESCO (2016b, 2017), in the framework of the establishment of the Sustainable Development Goals (SDGs) of the 2030 Agenda, includes in its 5th (SDG) the aspiration to "Achieve gender equality" and the 4th (SDG) to "Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all".

Assuming a gender perspective in education translates into correcting any type of inequality by favouring access and use of resources that highlight equality between men and women, promoting the values of equality and respect, and empowering women to participate equally in all spheres. It would also be logical to think that, if education is to be inclusive and for all people, it should carry out actions that contemplate equity in the attention to gender and sexual diversity (GSD). This has so far been invisible and discriminated against (Toro-Alfonso, 2012). In the face of gender-based violence, it is assumed that teachers should be more aware of the different dynamics that occur in their classrooms, as well as of their own conceptions, beliefs, prejudices and behaviours in order to combat violence (UNESCO-UN Women, 2019; Fernández-Rotaeche et al., 2021).

In recent times, attention to GSD has been emerging as a demanded need in educational contexts, especially for those groups that have had to face situations of vulnerability derived from their sexual orientation or gender identity. In this regard, situations related to LGBTIQ+phobia, bullying and exclusion due discrimination can be referred (INJUVE/CIS, 2011; Pichardo et al., 2015; UNESCO, 2016a). This problem has been regarded as one of social justice and law 2018; Rojas et al., representing its recognition in equality and equity with all people.

The work carried out by García-Cano et al. (2018) shows the situation regarding attention to affective-sexual diversity in Spanish universities. Although progress has been made

in the regulatory framework both at a national and regional level, (Organic Law 3/2020 on education; Law 8/2017, to guarantee the rights, equal treatment and non-discrimination of LGBTI people and their families in Andalusia, for example) and there are initiatives to eradicate discrimination, there are still only few studies on discrimination in the university environment.

In this context, Penna's (2015) study on homophobia in university classrooms describes the curricular shortcomings in the curricula and the lack of training of university teaching staff on affective-sexual diversity. We concur, in line with García Cano et al. (2018), on the need to include content related to affective-sexual diversity in the curriculum, as well as on the importance of the institutional role and that of teachers themselves in recognising, raising awareness and promoting visibility from an inclusive perspective, with the aim of helping to reduce the problems identified (Tejada et al., 2025a).

The literature reviewed by Pérez-Jorge et al. (2020) focused on the LGBTIQ+ (community and found very few studies based on specific teacher training. These same authors highlight the importance of these professionals being able to effectively manage LGBTIQ+ diversity in the classroom, promoting coexistence and inclusion among students, regardless of their gender identity and sexual orientation. In this sense, cisheteronormativity (Allen, 2020; Sánchez Sáinz, 2019) is evident in practices of non-recognition of sex-gender diversity, manifesting itself, for example, in the absence of curricula and in the lack of curricular content that includes LGBTIO+ issues and realities.

Liscano and Jurado (2016) offer some studies developed in the field of higher education. focusing mainly LGBTIQ+phobic bullying, equality policies, homogenising discourses on gender and selfdetermination, values, family nondiscriminatory educational climate acceptance or equality and prejudice. They point out that teachers recognise

importance of accepting and working on difference and discrimination in their practices, while pointing out. However, they feel incompetent to carry them out.

Given the diversity of conceptions that have been appearing in relation to this subject, the acronym LGTB is used to refer to people who represent a broad set of realities that break with the hegemonic/heteronormative norms of gender and sex. Likewise, given the diversity of terms and concepts that exist to refer to LGBTIQ+ people in the field of education, we have opted for the concept of gender-sexual diversities (SDG) because we understand that it encompasses issues related to sexual characteristics, sexual orientation and gender identity.

As we have already pointed out in another study (Tejada et al., 2025b), universities have a legal responsibility to be proactive in promoting equity, equality and social justice, key concepts that guide the processes of socioeducational inclusion. The training of education professionals has a major influence on the sustainability of the education system. This is evident in educational practices at different levels, which is why universities must assume their responsibility to meet the needs that arise.

It is in this context that the training of teachers and education professionals must consider diversity, the difference of students, specifically for our interest, the SDGs (Staley & Leonardi, 2020). These should appear as a concern in the curricula that make up the different profiles of the professional family of Education, verifying the inclusion of contents and competences towards diversity, and gender identity and sexual orientation, as an indicator of equity and social justice (Miralles et al., 2020).

In such training, attention to gender-based violence is addressed by building on what learners already know and incorporating new knowledge. The analysis carried out by Baker et al. (2018) shows that students, future education professionals, can learn to build genuine relationships that do not conform to

gender; moving away from binary notions of preconceived gender, recognising that their identity impacts on interactions and, therefore, on their learning.

On the other hand, there is still a gap between theory and practice, between thinking and action, between attitudes and willingness to accept teachers' commitment to inclusive practice (Hwang & Evans, 2011). Bracho and Hayes (2020) allude to the development of professional identity as a multitude of skills and knowledge are learnt in order to become an experienced professional. In this sense, assuming that teachers' identities are dynamic, we must consider the skills they have to deal with interactions in the teaching-learning process when faced with SGD, specifically generic-transversal competences such as those of attention and respect for diversity (Tejada et al., 2025a).

It should be specified that there is a requirement embedded in the codes of conduct of education professionals that obliges them to practice in a way that respects diversity. This is also a consequence of the implementation of legislation (Organic Law 3/2020) which explicitly refers to the need to make visible and respond to LGBTIQ+ students on up to five occasions. It means recognising the tension between marginalisation and inclusion, and supporting the latter.

In the face of apparently reactive regulations, focused on action to preserve the duties and rights of all people, limitations are found when it comes to incorporating initial and continuous training mechanisms for teachers at compulsory schooling levels. For this reason, the question of whether there is sufficient information and training available for university students remains in their training as education professionals, to tackle the problems derived from the SGD, considering them as the realisation of professional skills that are oriented towards appropriate responses in the preservation of people's rights (Tejada et al., 2025b).

The purpose of this paper is to present part of the information gathering device used for

this purpose, while also presenting the process of constructing and validating the construct of two of its subscales: the PRACTICE CONTEXT Scale and the SELF-EFFICACY Scale for DSG care by students in the education professions.

Method

The design and validation of the Self-Assessment Questionnaire of the context of practice and self-efficacy of university education students towards the inclusion of LGBTIQ+ students are part of a data collection mechanism for a broader research project, whose objective is to assess the levels of information and training that students and teachers in university education programmes have in order to address issues arising from DSG care (Navío et al. 2024). This is a crosssectional explanatory study with a mixed approach, integrating quantitative instruments (student questionnaires and teacher questionnaires) and qualitative strategies and techniques (teacher interviews and student focus groups), using a triangulated and complementary logic.

Participants

The study population are students of different degrees (Early Childhood Education, Primary Education, Pedagogy, Social Education) master's degrees and (Psychopedagogy, Guidance, Secondary Teacher Training) of the faculties of education of five Spanish public universities. All of them are in their final years of study. The sample extraction procedure in the pilot study for instrument validation was non-probabilistic by convenience (accessibility-voluntariness).

The 334 students who make up the initial sample are characterised by a profile, within education studies, in which gender stands out, with 69.66% female, 30.14% male and 0.3% non-binary. Their average age is 23.82 years old and correspond to students in the last two years of education studies, 61.1% in Bachelor and 38.9% in Master. In addition, almost 40% work while studying, with an average of 20.5 hours per week. Furthermore, 55.6% live with

their parents, 22.8% with friends, 7.9% live with a partner and the rest in other situations. The training received to address issues related to LGTBIQ+ care is rated 3.35 (scale 1 to 5, none - very much).

Instruments

The Self-Assessment Questionnaire of the context of practice and self-efficacy of university students of education towards the inclusion of LGBTIQ+ people are structured in two large dimensions: context of training practices for DSG (35 items) and level of selfefficacy for SGD attention (20 items). In addition, it contains 12 items of sociodemographic and training variables and 4 open-ended questions, For this purpose, in addition to the general rationale (Tejada et al., 2025a) outlined above, other studies and specific instruments on the dimensions variables involved, and indicators considered as a basis (Table 1): CONTEXT OF TRAINING PRACTICES in higher education (Trainee teachers' approaches to gender diversity, Bochicchio et al., 2019; Higher education students and sexual diversity, Espinoza, 2020; Gender Equality Training Sensitive Evaluation Scale ESFIG, Miralles et al., 2020; Self-Assessment Rubric for the Institutionalization of Diversity, Equity and Inclusion in Higher Education, NERCHE, Cuestionario de Formación Profesorado en la diversidad afectivosexual, Penna, 2012; Escala de Creencias, actitudes y prácticas de atención a la diversidad para docentes universitarios, Ramos Santana et al, 2021; La formación del profesorado de Educación Primaria en diversidad Sánchez Torrejón, sexogenérica, 2021: Comportamientos de profesores frente a la comunidad LGTBI, Toro et al, 2020) and SELF-EFFICIENCY IN ATTENTION SGD (Self-Efficacy Scale on working with and for LGBTQ students, Brant, 2017; Core Self Evaluations Scale, Carroll, 2019; The Teacher Self-Efficacy Scale LGBTQ, Jones et al., 2021; Questionnaire for the evaluation of teacher in competences attention to diversity

CECPAD, Mena Ramos and García Sanz, 2017).

Table 1. Dimensions and variables of the questionnaire.

DIMENSIONS	VARIABLES/Indicators	Item		
	Age	4		
	Religion	13		
Socio-demographic variables	Political ideology	14		
	Family living situation	6		
	Employment status	7		
	University	1		
Tuoining waniahlas	Degree	2		
Training variables	Course	3		
	Pre-university training institution	15		
	Gender Identity	5		
	Sexual orientation	12		
	Knowledge of LGBTIQ+ people	16		
Sex-generic diversity	SGD-study plan	8		
	SGD -subjects	9		
	SGD -professional utility	10		
	SGD -barriers in the curriculum	11		
	CONTEXT OF THE EDUCATIONAL OFFER			
	Access to education			
	LGBTIQ+ Inclusion Policies (University, Faculty)			
	Institutional climate			
	Faculty Inclusion Activities			
	Community interest			
	Teacher sensitivity			
	Thematic training offer			
	Relevance SGD treatment profession			
	CURRICULUM DESIGN SGD CARE Presence of content			
	Relevance Content			
Scale CONTEXT	Competences for diversity	TT 1 4		
PRACTICAL TRAINING	Inclusion of gender perspective	II.1 to		
CONTEXT SGD	CURRICULUM DEVELOPMENT SGD CARE	II.35		
	Learning and attention to diversity			
	Classroom diversity assessment			
	Sexual diversity resources			
	Climate			
	Identity treatment			
	Pupil-student relations			
	Teacher-student relations			
	Incorporating personal experiences			
	Practicum-respecting sexual orientation students			
	Practicum-Thematic Sexual Orientation			
	Practicum-student-teacher relations			
	Practicum-incorporation of personal experience students			
	Adaptation methods			
	Planning and development of activities			
Self-Efficacy Scale attention	Good practice identifications			
SGD	Design and evaluation of resources	III.1 to		
5 GD	SGD evaluation	III.20		
	Cooperative work in the classroom			
	Addressing situations of homophobic discrimination and			
	conflict			

Training on inclusion issues

Procedure

For the validation of the questionnaire, construct validity and reliability analysis were used. The construct validity involved two sequential stages corresponding to the two procedures applied: a) Exploratory Factor Analysis (EFA) and b) Confirmatory Factor Analysis (CFA) (Dueñas et al., 2024)

In the process of collecting information in the pilot, the corresponding criteria of ethical rigour have been applied, ensuring confidentiality. All participants agreed and consented to participate in this study.

Data analysis

Data analysis was performed using *IBM* SPSS Statistics v.29 and *IBM* SPSS Amos v.29 software. Given the nature of the data, the relevant statistical tests for factor analysis were used, as can be verified in the following section, taking into account the specific situation of the analysis.

For the AFE, the Kaiser-Meyer-Olkin sample adequacy test and Bartlett's sphericity test were previously considered and then the principal component extraction procedure and the Varimax rotation procedure were used (Costello & Osborne, 2005; Kahn, 2006; Pérez & Medrano, 2010). The sedimentation plot was also considered to establish the number of factors in each of the scales (Kline, 2000).

For the CFA, the Structural Equation Method has been used, and its parameters are

estimated by the maximum likelihood procedure, specifying the fit indices of the initial and final models Cronbach's *alpha* coefficient was used to analyse the reliability of the two scales.

Results

Exploratory Factor Analysis (EFA)

The results of the Kaiser-Meyer-Olkin statistical tests, (KMO > .75), which is characterised as "good" and Bartlett's sphericity indicate its validity, as there are common factors for performing a factor analysis. With these results, we can decide to perform an AFE.

For factor extraction, it is assumed that the factor solution explains at least 50% of the total variability (Tabachnick & Fidell, 2001), considering the additional rotated matrix shown in table 2.

In the case of the SGD PRACTICE CONTEXT scale, as can be seen in the next table, we extracted six factors that explain a total variance equal to 61.52%. In line with the previous conceptual structure, the extracted factors have been named: F1: Classroom: Activities and resources; F2: Faculty policy; F3: Practicum; F4: Classroom climate; F5: Institutional climate; F6: Syllabus.

Table 2. Rotated Component Matrix: scale PRACTICE CONTEXT

TRIZ DE COMPONENTES ROTADOS					Componente				
	1	2	3	4	5	6	7		
23. Los recursos materiales que utilizamos en el aula ayudan a romper los mitos sobre las personas LGBTIQ+	.765								
21. Las actividades en el aula tienen presente las distintas identidades que pueden aparecer en la misma	.762								
0. Las actividades en el aula se orientan a reducir los prejuicios sobre las	.761								
personas LGBTIQ+ 4. Las referencias y textos que se utilizan en el aula se orientan a evitar	.751								
sesgos con relación a las personas LGBTIQ+ 9. Las actividades en el aula tienen en cuenta la diversidad de alumnado	.746								
LGBTIQ+ 2. En el aula, las cuestiones controvertidas relacionadas con la identidad sexual se tratan de forma holística	.694								
7. En el aula, se promueve la incorporación de temáticas relacionadas con la orientación sexual	.599								
8. En las clases se valora la diversidad como un aspecto enriquecedor del entorno del aula	.514								
En mi facultad se realizan actividades que propician la inclusión de las personas LGBTIQ+		.811							
En mi facultad se ha adoptado un enfoque proactivo para la inclusión de las personas LGBTIQ+		.809							
Existe una oferta formativa para el profesorado sobre temáticas de LGBTIQ+		.697							
La comunidad académica manifiesta interés por temáticas LGBTIQ+		.639							
). En mi facultad, el profesorado está sensibilizado respecto de la diversidad sexo-genérica		.567							
Mi universidad cuenta con una política de inclusión personas LGBTIQ+		.558			.519				
. Existen protocolos de seguimiento a situaciones de LGBTIQ+fobia		.520							
4. En el prácticum, las relaciones profesorado-alumnado son empáticas			.792						
3. En el prácticum, las relaciones alumnado-alumnado son empáticas			.758						
5. En el prácticum, se favorece la incorporación de experiencias personales del alumnado			.746						
En el prácticum, se respeta la orientación sexual de alumnado y profesorado			.703						
2. En el prácticum, se promueve la incorporación de temáticas relacionadas con la orientación sexual									
5. En las clases, se genera un clima de confianza				.789					
8. En el aula, las relaciones alumnado-alumnado son empáticas				.751					
6. En el aula, se respeta la orientación sexual de alumnado y profesorado				.726					
9. En el aula, las relaciones profesorado-alumnado son empáticas				.628					
D. En mis clases, se favorece la incorporación de experiencias personales del alumnado									
La Administración Pública garantiza el acceso de las personas LGBTIQ+ a la educación					.740				
La facultad es un lugar donde se respetan a las personas LGBTIQ+ Existe un clima institucional de respeto a las personas LGBTIQ+					.692 .650				
Las universidades acogen políticas inclusión hacia personas LGBTIQ+					.634				
3. En mi plan de estudios se abordan temáticas de LGBTIQ+						.774			
4. En mi plan de estudios se incluye el desarrollo de competencias para						.767			
educar en la atención a la diversidad sexo-genérica 5. En mis estudios se trata el tema de la orientación e identidad sexual						.761			
7. A lo largo de mis estudios estoy aprendiendo todo lo que necesito						.548			
sobre la atención a la diversidad sexo-genérica						.540			
2. El tratamiento de los temas relacionados con la identidad y orientación sexual es pertinente para mi profesión							.88		

.863

In the case of the SELF-EFFICIENCY scale for SGD care, as can be seen in table 3, two factors that explain a total variance of 67.23% have been extracted: F1: Curriculum design

and development; F2: Conflict and issue management.

Table 3. Component matrix: SGD SELF-EFFICIENCY scale

ROTATED COMPONENT MATRIX -	Component		
ROTATED CONFONENT MATRIX	1	2	
I am able to:	.811		
6 identify LGBTIQ+ bias/stereotypes in materials used in education	.811		
5 developing appropriate materials for a classroom with LGBTIQ+ students	.782		
1 adapting methodological strategies to meet the needs of LGBTIQ+ students	.776		
3 develop activities that increase the self-confidence of LGBTIQ+ students.	.761		
4 identify school practices that may harm LGBTIQ+ students	.761		
7 help students to examine their own prejudices towards LGBTIQ+ people.	.755		
2 plan educational activities to reduce prejudice towards LGBTIQ+ people.	.722		
8 teach about being LGBTIQ+ in a way that engenders mutual respect with people who are not LGBTIQ+.	.713		
9 to provide instructions showing how prejudice affects LGBTIQ+ people	.711		
10 help students to solve problematic situations caused by stereotypical and/or prejudicial attitudes towards LGBTIQ+ students.	.667	.528	
16 involve students in decision making and clarify their values on LGBTIQ+ issues.	.623	.553	
13 identify the social mechanisms that influence opportunities for LGBTIQ+ people	.622	.531	
15 help students to see history and current events from an LGBTIQ+ perspective.	.619	.500	
19 assume a mediating role in situations of conflict due to homophobia.		.863	
18 dealing with conflict situations due to homophobia		.851	
17 tackling discrimination and exclusion towards LGBTIQ+ people		.711	
12 identify solutions to problems that may arise as a result of someone being LGBTIQ+.	.505	.667	
14 help students to take on board the perspective of people with sexual identities different from their own.	.515	.662	
11 to get LGBTIQ+ and non-LGBTIQ+ students to work together.		.573	
20 I have sufficient training to address issues of inclusion of LGBTIQ+ persons			

Confirmatory Factor Analysis (CFA)

Subsequently, a confirmatory factor analysis was performed to validate the structure of the theoretical dimensions measured by the questionnaire-scales. This was also used to verify their correspondence with the AFE, estimating a measurement model composed of observed variables (items) and latent variables (factors) (Dueñas et al., 2024). The CFA of the SGD PRACTICE

CONTEXT SCALE corroborates the factor structure suggested by the EFA and, in turn, is in line with the conceptual structure of the two scales. Table 4 presents the comparative data of the *Initial and Final* fit models. In fact, the PCMIN/DF already points to an acceptable goodness of fit (2.14). The incremental fit indices (IFI, TLI, CFI) are acceptable at around .90. With regard to residuals, an RMSEA of .06 was obtained, together with an SRMR of .13, which are considered acceptable. On the

other hand, the Parsimony Indices (PRATIO of .89, PNFI of .76, PCFI of .79) can be considered high, above .07 and close to 1.

Table 4. Statistical indices of AFC: PRACTICE CONTEXT and SGD SELF-EFFICACY

INDEX	Acronym	Adjustment	PRACTICAL CONTEXT		SELF- EFFICIENCY	
v		criterion	Initial	Final	Initial	Final
Ratio of X2		≤ 2 appropriate				
X2/df	PCMIN/DF	≤3 acceptable ≤5 reasonable	3.71	2.14	4.8	2.8
Comparative fit	IFI	1 perfect	.72	.89	.88	.94
index	TLI	≥ .95 excellent	.70	.87	.86	.93
	IFC	≥.9 acceptable	.72	.89	.88	.94
Parsimony Index	PRATIO	> 7 ammanniata	.94	.89	.89	.85
	PNFI	≥ .7 appropriate (close to 1)	.61	.72	.76	.78
	PCFI	(close to 1)	.68	.79	.78	.80
Root mean square	RMSEA	< 05 appropriate	.10	.06	.11	.08
residual	LO90	≤ .05 appropriate ≤ .08 acceptable	.09	.06	.10	.07
approximation	HI90	≥.06 acceptable	.11	.07	.12	.08
Standardised root mean square residual	SRMR	≤ .05 adequate ≤ .1 acceptable (close to zero)	.27	.13	.05	.04

Figure 1 presents a structural model that confirms the initial structure of the instrument, showing that both the regression

weights or factor loadings of the items and the factor-dimensions are high.

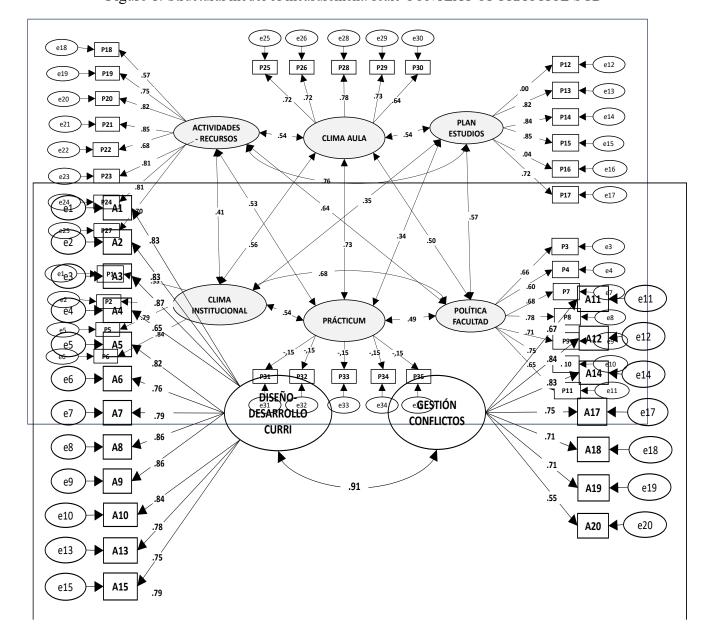


Figure 1. Structural model of measurement: scale CONTEXT OF PRACTICE SGD

The CFA of the SGD Self-Efficacy Scale corroborates the factor structure suggested by the EFA. Itis in line with the conceptual structure of the two scales. Table 8 presents the comparative data of the *Initial and Final* fit models. The PCMIN/DF points to an acceptable goodness of fit (2.8). The incremental fit indices (IFI, TLI, CFI) are acceptable at around .90. Regarding the residuals, an acceptable overall RMSEA is obtained with a value of .08 and the SRMR

is also acceptable with a value of .04. Likewise, the Parsimony Indices are high (with a PRATIO of .85, PNFI of .78, PCFI of .80), above .07 and close to 1.

Figure 2 presents a structural model that confirms the initial structure of the SGD SELF-EFFICIENCY scale. It shows that both the regression weights or factor loadings of the items and the factor dimensions are high.

Figure 2. Structural model of measurement: scale CONTEXT OF PRACTICE SGD

Reliability

Table 5 and Table 6 present the results of the reliability of the instrument based on the pilot sample (n = 334). The statistics are

established, and it can be verified that the level of internal consistency of the questionnaire is very high, according to the Alpha coefficient

Table 5. Reliability analysis statistics

Subscales	N of elements	Cronbach's alpha
Scale CONTEXT OF PRACTICE	35	.94
SELF-EFFICIENCY scale	20	.96

Table 6. Reliability results SGD SCALES

ITEMS	Half scale item deleted	Variance deleted element	Corre- lation Total	Alpha Cronbach	ITEMS	Half scale item deleted	Variance deleted element	Total correla- tion	Alpha Cronbach
	CONTEXT	O DE PRÁ	CTICA D	SG		AUTO	EFICACIA	A DSG	
CP1.	109.72	444.956	.348	.938	A1.	76.35	203.939	.785	.961
CP2.	110.38	438.417	.483	.937	A2.	76.13	204.644	.801	.961
CP3.	110.60	436.881	.525	.937	A3.	76.14	203.349	.836	.961
CP4.	110.61	437.133	.483	.937	A4.	76.09	209.144	.631	.963
CP5.	109.85	441.639	.485	.937	A5.	76.27	202.977	.793	.961
CP6.	110.10	438.118	.525	.937	A6.	76.10	205.613	.739	.962
CP7.	110.88	434.462	.507	.937	A7.	76.02	207.606	.759	.962
CP8.	110.73	431.596	.607	.936	A8.	76.08	204.323	.828	.961
CP9.	110.67	430.657	.629	.936	A9.	76.12	204.679	.824	.961
CP10.	110.55	430.211	.684	.935	A10.	76.00	207.337	.825	.961
CP11.	111.22	436.819	.513	.937	A11.	75.87	211.607	.610	.963
CP12.	109.59	455.009	.083	.941	A12.	76.00	207.852	.790	.961
CP13.	111.29	431.283	.551	.936	A13.	76.20	205.443	.791	.961
CP14.	111.35	430.718	.589	.936	A14.	76.01	207.636	.790	.961
CP15.	111.22	429.047	.577	.936	A15.	76.21	204.872	.766	.962
CP16.	109.60	455.482	.082	.941	A16.	76.10	205.723	.808	.961
CP17.	111.47	430.633	.597	.936	A17.	75.93	208.564	.726	.962
CP18.	110.32	432.669	.563	.936	A18.	75.91	210.336	.661	.963
CP19.	110.97	429.417	.608	.936	A19.	75.88	211.507	.633	.963
CP20.	111.02	427.846	.664	.935	A20.	76.74	208.521	.529	.965
CP21.	110.99	424.541	.710	.935					
CP22.	110.95	433.407	.592	.936					
CP23.	111.11	427.205	.664	.935					
CP24.	111.03	426.100	.681	.935					
CP25.	109.97	438.168	.510	.937					
CP26.	109.54	441.369	.491	.937					
CP27.	110.76	425.055	.651	.935					
CP28.	109.90	438.911	.505	.937					
CP29.	110.15	437.406	.537	.937					
CP30.	110.26	430.846	.591	.936					
CP31.	109.78	439.171	.474	.937					
CP32.	110.75	428.946	.584	.936					

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CP33.	109.89	441.601	.426	.937
CP34.	109.90	437.678	.503	.937
CP35.	110.08	431.971	.582	.936

Discussion

design of the Self-Assessment The Questionnaire of the context of practice and self-efficacy of university students in education towards the inclusion of LGBTIQ+ students is based on a conceptualisation. It also follows the general foundation mentioned in other studies and specific instruments on the dimensions involved, variables and indicators: context of educational practice (Bochicchio et al., 2019; Espinoza, 2020; Miralles et al., 2020; Penna, 2012; Ramos Santana et al., 2021; Sánchez Torrejón, 2021; Toro et al., 2020), and self-efficacy (Brant, 2017; Carroll, 2019; Jones et al., 2021; Mena Ramos & García Sanz, 2017).

This frame of reference has made it possible to structure the *self-assessment* questionnaire in accordance with the different dimensions and indicators mentioned above and to articulate the different scales (CONTEXT OF PRACTICE of SGD care and SELF-EFFICIENCY for SGD care). This provides internal coherence from the theoretical conceptualisation that has been carried out (Tejada et al., 2025a).

The construct validity, through EFA with the Varimax rotation procedure, has enabled the grouping of items that correlate strongly with each other, verifying six factors in the CONTEXT OF PRACTICE scale (Activities and resources, Faculty policy, Practicum, Classroom climate, Institutional climate, Study plan) and two factors in the SELF-EFFICIENCY scale (Curricular design and development and Management of problems and conflicts). The extraction of these factors allows us to conclude that they explain all of the variables involved in the research.

For its part, the CFA corroborates the factorial structure suggested by the PFA. This is evidenced by the models shown in the Figures as well as by and the data in Table 4,

where the comparative data of the initial and final models are presented, concluding that satisfactory levels of final fit are obtained (Byrne, 2016). In fact, the PCMIN/DF already points to an acceptable goodness of fit, below 3 (Kline, 2016). The incremental fit indices (IFI, TLI and CFI) are acceptable at around .90 (Byrne, 2016; Whittaker, 2012) in Practice Context and above .90 in SGD Self-Efficacy. Regarding the residuals, values below .08 are obtained (Kline, 2016; Whittaker, 2016), with an overall acceptable RMSEA with values below .08 and the SRMR is also acceptable with values below .08. Likewise, the parsimony indices are high (PRATIO, PNFI and PCFI), above .07 and close to 1 (Ho, 2006).

It is worth noting the great adaptation of the theoretical model to the definition made through the CFA around the structural equation model (Fernández-Cruz et al., 2018). As indicated above (Tejada et al., 2025a), the dimensions, variables and indicators set have been adjusted quite closely to the theoretical model analysed. This shows the consistency and robustness of the factors that made up the initial structure of items, dimensions and scales that make up the instrument, based on these theoretical references.

In summary, the scales evaluated, in light of the results of the design and validation process carried out, can be considered a robust and valid tool for the assessment of the *Practice Context and Self-efficacy* for SGD care of university students in education, as well as a relevant contribution from a theoretical point of view.

However, the size of the sample should be considered a limitation. Although it is considered sufficient, acceptable and valid for the piloting of the questionnaire, with the next applications in the research study designed, the robustness, reliability and validity obtained so far will be extended.

Finally, it is also worth pointing out some implications, particularly related to the use and application of the self-assessment questionnaire. In this sense, it satisfies the objective of gathering sufficient information from university students of education studies, in this case, on the context of practice of the SGD in which they are trained and, at the same time, verifying the perception of self-efficacy to tackle the problems derived from attention to the SGD, considering them, in this sense, as the search for competences that are oriented towards the appropriate responses in their development training. and professional performance.

This will give rise, with discernment and meaning, to specific proposals for individual training initiatives and also to more comprehensive ones from higher education institutions themselves (Tejada et al., 2025a). These training policies will make it possible to strengthen the visibility of SDGs as a mechanism for consolidating equity in the exercise of rights, to guide processes for improving training plans and programmes in education faculties in relation to attention to SDGs. They will also contribute to the recognition of the preventive and social facilitating role of the faculties themselves, as training of education centres for the in favour of educational professionals, improvement in the face of diversity in general and SDGs in particular. Finally, they will contribute to the deepening of the training provided to students in different degrees and specialities and to social and institutional change in the university in favour of equity, equality and social justice (Tejada et al., 2025b).

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