Towards a Comprehensive Model of Educational Coaching?

Inference towards executive competences and leadership

Óscar Díaz Chica
Alejandra Cortés Pascual
Álvaro Serra Mercé
Resumen

Este trabajo alude a la investigación resultante del desarrollo del Modelo Integral de Coaching Educativo (MICE) (www.EducationalPaths.com/MICE) durante dos cursos educativos realizados a través de la formación, tanto en procesos de coaching individual como grupal, con profesores no universitarios de Aragón (España). Los datos se han recopilado a través de un cuestionario sobre expectativas, un cuestionario sobre competencias técnicas, un cuestionario sobre competencias transversales, un grupo de disucisión y un cuestionario abierto enviado en línea para explorar la repercusión de la capacitación. Concluimos con resultados relacionados con las expectativas sobre la capacitación en Coaching Educativo; sus aspectos de mejora, competencias y expectativas desarrolladas; y competencias relacionadas con las funciones de dirección y docentes. Entre los aspectos más destacados de los resultados, el estudio revela que MICE fomenta el entrenamiento en el aula (a través de tutoriales, grupos de trabajo, atencion al uso del lenguaje, etc.). También fomenta, entre otras cosas, el establecimiento de un ambiente de clase apropiado, respeto por los estudiantes, respeto por las iniciativas de los estudiantes, apoyo para la toma de decisiones, empatía y una mejor gestión de la información y las emociones positivas. El estudio proporciona resultados clasificados por género, conexiones con equipos de gestión, nivel educativo y características del centro educativo (administrado de forma privada / financiado con fondos públicos y público).

Citar como:


Abstract

This work alludes to the research resulting from the development of the Comprehensive Model of Educational Coaching (MICE) (www.EducationalPaths.com/MICE) during two educational courses performed through training, in both individual and team coaching processes, with non-university teachers from Aragon (Spain). Data has been collected through a questionnaire about expectations, a questionnaire about technical competences, a questionnaire about transversal competences, a discussion group and an open questionnaire sent online to explore the repercussion of the training. We conclude with results related to the expectations about Educational Coaching training; its aspects for improvement, developed competences and expectations; and competences related to the managerial and teaching functions. Among highlights of the results, the study reveals that MICE encourages classroom coaching (through tutorials, work groups, attention to language use, etc.). It also fosters, among other things, the establishment of an appropriate classroom environment, respect for the students, regard for student initiatives, decision-making support, empathy and better management of information and positive emotions. The study provides results categorized by gender, connections to management teams, educational level, and characteristics of the education centre (privately administered/ publicly financed and public).

Citar como:

Alejandra Cortés Pascual, Pdoc MA Edu

AutorID: 16048335800
Research ID: 2439014
ORCID: 0000-0002-2832-7041


City | Ciudad: Zaragoza [es]

e-mail: a.cortes@unizar.es

Álvaro Serra Mercé

BIO: Coach, conferenciante, consultor y coordinador en la integración de proyectos innovadores en educación (como el design thinking, el coaching, el multilingüismo, el uso de las TIC y las inteligencias múltiples)

City | Ciudad: Zaragoza [es]

e-mail: a.serra@educationalpaths.com

Óscar Díaz Chica, Pdoc MA Hum

Research ID: M-8222-2015
ORCID: 0000-0001-6836-6816

BIO: Doctor en Psicología, Máster en Educación Socioemocional, Graduado en Humanidades, Graduado en Publicidad y Relaciones Públicas

City | Ciudad: Valladolid [es]

e-mail: o.diaz@uemc.es

Revista Iberoamericana de Psicología
ISSN-l: 2027-1786 | e-ISSN: 2500-6517
Publicación Cuatrimestral

Se autoriza cualquier tipo de reproducción y sus diferentes usos, siempre y cuando se preserve la integridad del contenido y se cite la fuente.
Introduction

Coaching is an accompaniment process performed by a coach in which one person or a group of persons wants to reach an objective. This method mainly originates from Socratic maieutics and in freedom based on existentialism. In the psycho-pedagogical field, it is also found in approaches such as humanism, socioconstructivism, systemics, positive psychology, development and learning by skills, neuroeducation and socioemotional education. It also complements other perspectives such as neurolinguistics programming and mindfulness. Our opinion is that coaching applied to education provides a method based on dialogue and powerful questions that is drawn from different approaches, such as those mentioned. These approaches have their own proposals and techniques that can also be used to obtain the required objective.

Although there is currently a growing interest in the theoretical development, more scientific contributions about coaching are required with a greater emphasis on Educational Coaching. In fact, according to the analysis of 131 studies performed by Grant and Cavanagh (2004) it was concluded that there is still little empirical evidence about the effectiveness of coaching, emphasizing the need to deepen the knowledge of the characteristics that qualify a coach and into the elements that make coaching an effective tool for helping in personal development. Nevertheless, we continue in this line of teaching and scientific improvement as Devine, Meyers and Houssemand indicate (2013) ‘There is an emerging evidence-base that coaching is a powerful tool to support learning and development for students, teachers, school leaders and their educational establishments’. In fact, Kraft, Blazar, and Hogan (2018) describe 44 articles with scientific rigor about Educational Coaching, and they manifest that coaching above all empowers climate aspects and not academic results.
In relation to Educational Coaching, Jiménez (2012) revised the studies made during teacher training. The author also noted that the research method most widely used has been a quasi-experimental one and that there are influences from 3 sociocultural perspectives: that of Vygotsky (1978a; 1978b), the dialogue of Bakhtin (with ideas such as reflexive conversations, positive feedback, learning construction process and emotional support) and the model of Onin linked to the neurological levels of neurolinguistics programming. He highlights two concepts that are repeated: dialogue and action.

Dialogue characterizes any form of communication and verbal interaction. Personal interrelations in social frameworks are developed through some type of dialogue. Dialogue characterizes communicational interchanges between persons, becoming a form of human activity in specific social situations of communication. Dialogue allows the discovery of the aspects of the action and the significant improvements in teaching (Teemant, Wink, & Tyra, 2011).

Research on educational coaching

Below, we present a review of the various research studies that support our Comprehensive Model of Educational Coaching (MICE). In this vein, Morales and Morales (2016) found 791 scientific references with the word coaching. With the contribution of these studies and others found in a bibliographic research, we list in this table the most relevant studies (table 1):

<table>
<thead>
<tr>
<th>Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batt (2010)</td>
</tr>
<tr>
<td>Coaching cognitive.</td>
</tr>
<tr>
<td>15 teachers belonging to three types of schools: two rural ones and an urban one.</td>
</tr>
<tr>
<td>Descriptive method (combines quantitative and qualitative methods).</td>
</tr>
<tr>
<td>SIOP (Sheltered Instruction Observation Protocol) Instrument, questionnaire, and interviews. A three-phase cycle is contemplated: prelesson, observation, and postlesson.</td>
</tr>
<tr>
<td>Brujin and Leeman (2011)</td>
</tr>
<tr>
<td>Instructive coaching.</td>
</tr>
<tr>
<td>69 school department coordinators participated. Overall, 22 students between 16 and 22 years old (18 years old average), 97% boys and 11 teams of four to seven teachers participated in the study.</td>
</tr>
<tr>
<td>Descriptive method.</td>
</tr>
<tr>
<td>Questionnaire, class observations, curriculum analyses and teaching materials, interviews with teachers and students. Guided exploration process, cooperative reflection, and learning. Concise phases are not necessary, a process tightly linked to the support of self-control abilities is seen, in which the teachers help students to develop and maintain self-discipline and motivation.</td>
</tr>
<tr>
<td>Scales of self-observation of the ad hoc prepared practice itself and reports. Coaching is developed through two types of sessions that are carried out one day a week: a) a mutual observation between couples of the given training and b) a group meeting of critical friends in a ‘clinical session’ to analyze problems and pedagogical situations.</td>
</tr>
<tr>
<td>Fazel (2013)</td>
</tr>
<tr>
<td>Instructive coaching and review.</td>
</tr>
<tr>
<td>This includes research published in the Social and Behavioural Sciences magazine highlighting that coaching can be a model for improvement in the educational field. Among the articles, we highlight that of Devine, Meyers and Houssemand (2013) which stated that the continuation of Educational Coaching as a leadership and training model is very important as a collective advance (all the educational community involved and an integrating learning perspective) and that there is a commitment for quality teaching in that regard.</td>
</tr>
<tr>
<td>Quasi-experimental method (with a control group).</td>
</tr>
<tr>
<td>Observations in the classroom, a set of questions (coaching guides), coaching journal, video test (classroom sequences), comics (activities answered in writing and contextualized the question for exploring, for example, activities related to the method of explanation in the classroom). The intervention consists of two parts: a) Two days of seminars about adaptive skills in teaching to discuss results of the research related to the four dimensions: knowledge of the matter, diagnosis, teaching methods and classroom management; b) Nine sessions of three hours each in which the coach visits the teacher in his/her classroom that can be organized into: 1. reflection before the class, 2. teaching in teams and 3. reflection after the class.</td>
</tr>
<tr>
<td>Hoekstra and Korthagen (2011)</td>
</tr>
<tr>
<td>Coaching.</td>
</tr>
<tr>
<td>The first study was of 32 experienced teachers. The second study was of 4 teachers (two women and two men).</td>
</tr>
<tr>
<td>Descriptive method and study of multiple cases.</td>
</tr>
<tr>
<td>Questionnaire with three sub-scales: a) learning regulation by the students, b) knowledge construction and c) student collaboration.</td>
</tr>
<tr>
<td>Class videos, interviews, reports. 7 supervision sessions are described in which methods from reflexive conversations to role play techniques were used to promote the practical transfer of teachers’ abilities.</td>
</tr>
</tbody>
</table>
The idea with which the author concludes is an interesting result: ‘When emotions are recognized as a legitimate way of knowing and understanding, rather than as something to be suppressed or controlled, literacy coaching interactions may be more likely to become a meaningful and transformative site for the co-construction of knowledge and collaborative professional learning’.

### Table 2. Training phases of Gordon

<table>
<thead>
<tr>
<th>Training</th>
<th>Degree of Implication</th>
<th>Actuations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unconsciously incompetent</td>
<td>Scarcely</td>
<td>Null or punctual</td>
</tr>
<tr>
<td>Consciously incompetent</td>
<td>Initial, due to starting to have interest and to participate.</td>
<td>Training and information about Educational Coaching.</td>
</tr>
<tr>
<td>Consciously competent</td>
<td>Noteworthy, or can even be outstanding, although not reaching a profound level of commitment.</td>
<td>Implication in projects and initiatives about Educational Coaching.</td>
</tr>
<tr>
<td>Unconsciously competent</td>
<td>Transcends and is committed and applies what is learned and implemented.</td>
<td>Implementation of experience in Educational Coaching to personal and professional life.</td>
</tr>
</tbody>
</table>
Towards a Comprehensive Model of Educational Coaching

Rodríguez et al. (2011) indicated that in teacher training, coaching defines a collaborative relation to help teachers have professional training in their workplace, improving their real practices in their classrooms and centers.

Subsequently, similar authors, Rodríguez et al. (2011) conducted a coaching experience between peers in teaching students of the Madrid Autonomous University so that among them they could conduct a critical reflection about different works they implemented. In this sense, they checked that the mentioned perspective is: a) a powerful instrument for professional development, b) a strategy for teacher training as a team, c) an enhancement of the experience with peer contributions, d) a training focused with a cooperative perspective on the treatment of chaos in the school and e) the possibility of knowing the development of teaching in classrooms and cycles other than their own. Lárez (2008) indicated the power of adopting coaching principles for the management of End-of-Degree Projects in the University, becoming the tutor of the University, a coach that invites the learner to constantly reflect with self-determination, proactivity and a belief in himself and in his work. Many current meta-analytic and praxis studies (Bozer & Sarros, 2012, Cortés-Pascual, 2019; Theeboom, Beersma, & van Vianen, 2014) confirm that coaching, as a training and support process, has an impact on 1) personal and educational leadership, 2) intrapersonal and interpersonal well-being, and 3) achievement of objectives.

Consideration of Educational Coaching

The educational field is beginning to research the possibilities of including coaching processes with teachers through some case studies. During these processes, teachers and coaches can build a positive work relationship that supports the professional growth of the teachers, highlights their daily practice and serves as an effective model of helping teachers to stimulate their ‘talents’ through ongoing professional development (Blackman, 2010). This is about creating an environment that allows teachers to reflect on their current approaches and strategies and helps them to create a greater security in themselves and competence to practice new abilities and come out from their comfort zone (Ben-Peretz, Gottlieb, & Gideon, 2018; Rush & Sheldon, 2006). A key element of such a process is the coach. Far from ‘sentencing’ what it is that the teacher needs to improve his/her daily practice, the coach creates a space for self-reflection for the teacher that will stimulate and define the terms in which he/she expects to conceive his/her praxis and the ways in which the coach can help to redefine it (Rhodes & Benicke, 2002) The consideration that a competent and critical teacher is, at least, a reflexive teacher, and the truly useful—competent—coach is the one who knows how to lead the process, offering understanding and support in a constructive space, free from judgement, promoting reflection on the conceptions, practices, beliefs, and possibilities of the coachee—educator—stimulating the opening of his/her reference frameworks based on the abovementioned approaches.

Different authors consider coaching as a constructive process of knowledge and awareness of oneself, of development of self-leadership abilities and group leadership, and communication abilities between colleagues, consequently increasing confidence in oneself (Bush & Glover, 2005; Van Driel, Beijaard, & Verloop, 2001; Veenman & Denessen, 2001) among others. Likewise, there seems to be unanimity in that coaching should focus on filling the space between the current situation and that which is desired by the professional, as well as creating the necessary climate for the coachee to explore new possibilities and develop plans of action.

From a more quantitative focus, other approaches conceive of coaching processes as methods for encouraging the implementation of new practices, and once these have started to be developed by the teachers, as constructive feedback that prevents the isolation that sometimes occurs after beginning the execution of new strategies and that empower an ongoing practice of these strategies (Graves & Bartholomew, 2010). Two dominant models of coaching are based on that viewpoint suggested by the literature about professional development in the educational field, originally denominated: ‘supervisory coaching’ and ‘side-by-side coaching’. The main difference between these is that in the first case, the coach gives constructive feedback—in all cases without evaluation or judgement—after making observations of the practice of the professional, and in the second case, feedback is given live, even through a direct intervention by the coach (ibidem). Although interesting for certain situations and needs, both perspectives are in a certain way a greater ‘modeling’ or directive form of coaching, with an objective not so much to help those situations in which the coachee—in this case, the professional—can appear to help himself/herself but to directly facilitate possible tools through practice and observation. This pragmatic part provides soundness and realism, because the educational agents demand usefulness in the teaching and educational professional development (Jiménez, 2012; Lárez, 2008; Sánchez & Boronat, 2014). From this practical viewpoint, we find the application of coaching very interesting for the improvement of learning complex mathematical processes (Bengo, 2016). All of these factors have influenced the development of our Comprehensive Model of Educational Coaching, since we have not found an approach that is similar to ours nor one that fulfils our objective of presenting a formal and systematized educational coaching initiative, as will be explained later.

Consideration of Educational Coaching

The educational field is beginning to research the possibilities of including coaching processes with teachers through some case studies. During these processes, teachers and coaches can build a positive work relationship that supports the professional growth of the teachers, highlights their daily practice and serves as an effective model of helping teachers to stimulate their ‘talents’ through ongoing professional development (Blackman, 2010). This is about creating an environment that allows teachers to reflect on their current approaches and strategies and helps them to create a greater security in themselves and competence to practice new abilities and come out from their comfort zone (Ben-Peretz, Gottlieb, & Gideon, 2018; Rush & Sheldon, 2006). A key element of such a process is the coach. Far from ‘sentencing’ what it is that the teacher needs to improve his/her daily practice, the coach creates a space for self-reflection for the teacher that will stimulate and define the terms in which he/she expects to conceive his/her praxis and the ways in which the coach can help to redefine it (Rhodes & Benicke, 2002) The consideration that a competent and critical teacher is, at least, a reflexive teacher, and the truly useful—competent—coach is the one who knows how to lead the process, offering understanding and support in a constructive space, free from judgement, promoting reflection on the conceptions, practices, beliefs, and possibilities of the coachee—educator—stimulating the opening of his/her reference frameworks based on the abovementioned approaches.

Different authors consider coaching as a constructive process of knowledge and awareness of oneself, of development of self-leadership abilities and group leadership, and communication abilities between colleagues, consequently increasing confidence in oneself (Bush & Glover, 2005; Van Driel, Beijaard, & Verloop, 2001; Veenman & Denessen, 2001) among others. Likewise, there seems to be unanimity in that coaching should focus on filling the space between the current situation and that which is desired by the professional, as well as creating the necessary climate for the coachee to explore new possibilities and develop plans of action.

From a more quantitative focus, other approaches conceive of coaching processes as methods for encouraging the implementation of new practices, and once these have started to be developed by the teachers, as constructive feedback that prevents the isolation that sometimes occurs after beginning the execution of new strategies and that empower an ongoing practice of these strategies (Graves & Bartholomew, 2010). Two dominant models of coaching are based on that viewpoint suggested by the literature about professional development in the educational field, originally denominated: ‘supervisory coaching’ and ‘side-by-side coaching’. The main difference between these is that in the first case, the coach gives constructive feedback—in all cases without evaluation or judgement—after making observations of the practice of the professional, and in the second case, feedback is given live, even through a direct intervention by the coach (ibidem). Although interesting for certain situations and needs, both perspectives are in a certain way a greater ‘modeling’ or directive form of coaching, with an objective not so much to help those situations in which the coachee—in this case, the professional—can appear to help himself/herself but to directly facilitate possible tools through practice and observation. This pragmatic part provides soundness and realism, because the educational agents demand usefulness in the teaching and educational professional development (Jiménez, 2012; Lárez, 2008; Sánchez & Boronat, 2014). From this practical viewpoint, we find the application of coaching very interesting for the improvement of learning complex mathematical processes (Bengo, 2016). All of these factors have influenced the development of our Comprehensive Model of Educational Coaching, since we have not found an approach that is similar to ours nor one that fulfils our objective of presenting a formal and systematized educational coaching initiative, as will be explained later.
of training, as well as specialized training through competences, favored the application of a competency focus in the classroom. When considering the profile of the teacher, the tutors gave significantly greater values to the importance of instrumental competences (learning to do) compared to specialist teachers, while the latter showed significantly higher points in the relevance granted to transversal competences (learning to be and learning to live together) compared to the tutors (Méndez, Méndez, & Fernández-Ríos, 2015).

In a work exclusively developed with secondary school teachers, the competences linked with personal questions (learning to be) obtained more evaluation. Competences linked to technical questions or methodologies (learning to do) and the disciplinary or scientific ones (learning to know) were found, in both cases, to be at an intermediate level of development in the teachers. However, the competences associated with social questions (learning to live together) were given a lower level of points, although close to the average evaluation (Ferrández-Berrueco & Sánchez-Tarazaga, 2014).

In the case of managers, they are trying to improve the results of schools in more countries through greater autonomy in the design of the curriculum and in the management of resources. These aspects mean that the role of administrators is growing beyond that of an educational administrator (Schleicher, 2012).

A research study with secondary school managers indicated that the competences in which those heads of centers obtained a lower evaluation were their ability to stimulate the development of networks, possibly due to the need of greater resources to invest in digital technologies and their ability to perform an institutional self-evaluation. In contrast, the efficiency of their leadership stood out as one of their most outstanding qualities, possibly due to their capacity for generating consensus, their support of projects that arise among their personnel and their commitment to the task of teaching. In addition, they also received good evaluations in communication abilities, possibly by promoting the relationship of parents with the school (Araiza, Magaña, & Carillo, 2014).

These latter results are harmonious with those reached in a study that revealed that the supervisors who offered more autonomy to teachers are better disposed to achieve their results both in teaching that revealed that the supervisors who offered more autonomy to teachers are better disposed to achieve their results both in teaching technologies and their ability to perform an institutional self-evaluation. (Van Droogenbroeck, Spruyt, & Vanroelen, 2014). The results also agreed with those suggested by another research study with primary and secondary school teachers that revealed that if the school directors offered more support, teacher burnout significantly decreased and their feelings of personal efficiency increased (Fernet, Guay, & Austin, 2012). In this sense, it was shown as strategic for the administrative heads to favor the reduction of emotional exhaustion in teachers because it is associated with the bad behavior of students (Aloe, Shisler, Norris, Nickerson, & Rinker, 2014).

In a research study aimed at offering keys to the development of a program for improvement in a secondary educational center, the directors of educational centers and department heads indicated that human competence was the most important key. In this respect, they declared that the creation of this type of plan depended on the collaboration of all the agents involved and that the most relevant values must be strengthened by the directors and must be involved in the improvement programs. Nevertheless, they also highlighted aspects linked to the technical and management areas such as the commitment to teaching and with the attention and needs of each program, the stimulation of using information technologies and communication, and the need for supporting the integration of students with different deficits (Medina & Gómez, 2014). This latter aspect becomes a strategic element for administrative heads because it involves the students in decision making, strengthening the commitment of students to the school (Mager & Nowak, 2012).

Method

Context and objective of the research

The Comprehensive Model of Educational Coaching (MICE) is a framework that is based on the previous discussion and that was in development until 2013, when it was independently started in educational centers, and the Aragon Regional Government, through Teacher Training and Innovation Centres (CIFE), and the Coaching Research and Entrepreneurial Group for Personal and Professional Development began to give it form and resources. MICE holistically offers training and coaching processes to all of the educational community: students, teachers, management teams, administration, families, and other educational agents. Since 2013, CIFE centers are responsible for the training of teachers as well as managing the educational research of all the centers (public, independent and private). In Zaragoza, there are two CIFE centers, and we have developed this project in both. Therefore, after the demand from different centers, we launched the Specialized Training in Educational Coaching (FECED) program, which has been running for two courses, and the Training for Coaching in Teams program, with a course under development. The first is for teachers of all levels of formal education, and the second is for management teams. At the same time, there was an offer for individual and team coaching, although this has been implemented in a minor way due to the economic cost. The content offered in this training and its processes are included on the website: www.EducationalPaths.com/MICE, which we recommend visiting.

MICE is an integrated model that offers a global view of education as matching to achieve the best version of a person, of a team or of a project based on different classical and current theories, from the absolute belief in personal resources and the offering of different resources for personal development, active methodologies, and collaborative innovations.

So that MICE can have the vital researching support that gives it rigor and validity, which are so necessary in new proposals that have little or no background, we have supported it with the Research Group GICED.

The diffusion of the model has also reached the Innovation Centers of the Autonomous Region of Castile and Leon and other European universities. The idea that Educational Coaching, well validated and scientifically supported, is an excellent complement for education is slowly growing, and therefore, we are offering this research herein.
Towards a Comprehensive Model of Educational Coaching

Table 3. Training given following the MICE model in 2014-15 and 2015-16 courses

<table>
<thead>
<tr>
<th>Temporal period</th>
<th>Training or revision</th>
<th>Participants</th>
<th>Data collection techniques</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course 2014-15</td>
<td>Specialized Training in Educational Coaching (FECED)</td>
<td>23 Infant and Primary Education teachers</td>
<td>Questionnaire of expectations, questionnaire of technical competences of the teacher and questionnaire of transversal competences of the teacher. All a priori (December 2014) and a posteriori (June 2015). Final discussion group (June 2016).</td>
</tr>
<tr>
<td></td>
<td>Team Coaching Process (PCE)</td>
<td>1 team</td>
<td>Previous questionnaire of expectations, questionnaire after each session and questionnaire of achievements posteriori.</td>
</tr>
<tr>
<td></td>
<td>Individual Coaching for Teachers Process (PCID)</td>
<td>4 processes</td>
<td>Previous questionnaire of expectations, questionnaire after each session and questionnaire of achievements posteriori.</td>
</tr>
<tr>
<td>Course 2015-16</td>
<td>Specialized Training in Educational Coaching (FECED)</td>
<td>33 Infant and Primary Education teachers</td>
<td>Questionnaire of expectations, questionnaire of technical competences of the teacher and questionnaire of transversal competences of the teacher. All a priori (November 2015) and a posteriori (June 2016). Final discussion group (June 2016).</td>
</tr>
<tr>
<td>October 2017</td>
<td>Revision of the impact of Specialized Training in Educational Coaching (FECED)</td>
<td></td>
<td>Open questionnaire for evaluation of the training improvement one course later.</td>
</tr>
</tbody>
</table>

The entire sample is 56 teachers, 20 men and 36 women between 25 and 57 years old.

Based on this framework for this article, we only consider all is that related to the FECED training to identify the nature of their benefits (according to expectations and other aspects of improvement) and their relationship with teaching competences, and from there we propose the following objectives:

1. Describe the initial expectations about Educational Coaching training.
2. Reveal the aspects for improvement of Educational Coaching training.
3. Describe the transversal technical competences of the teacher who performs the Educational Coaching training before and after the training.
4. Relate technical competences and expectations of the management and teaching functions.

Procedure and method for recompiling data

Before specifically starting the FECED training, we physically on-site (both in December 2014 and in 2015) went through several tests: a questionnaire about expectations with three questions (what do you think the FECED can offer you personally?, what do you think that the FECED can offer you professionally?, and what are you expectations?); a questionnaire about technical competences of the teacher (based on article 91 of the Organic Law 2/2006 of May 3rd, about Education and Law 7/2007 of April 12th, about the Basic Statue of Public Employees); and a questionnaire about transversal competences according to the Tuning project. Subsequently, we went through similar tests, also on-site (in June 2015 and June 2016), adapting the content of the first so it could be coherent. In the same month, there was also a discussion group with 5 participants from each course, so they could more openly describe their aspects for improvement. Finally, in October 2017, an open questionnaire was sent online to all the participants to explore the repercussion of the training after a long period had passed, with questions about improved competences, application in their personal and professional lives, if people around them have perceived any change and if they would propose any aspect for improvement.

We validated the pertinence of these tests with 3 educational experts before using them, and small changes were made in the original proposal according to their suggestions.

The qualitative data has been analyzed with an exhaustive inter-judge analysis (3 evaluators) who organized the responses into 9 categories (see table 4).

Table 4. Categorization of qualitative data

<table>
<thead>
<tr>
<th>Category</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leadership</td>
<td>Series of competences that a person must influence over a group of subjects, as well as the capacity for management and being able to carry out a project. We allude to leadership in both the personal life as in the professional one.</td>
</tr>
<tr>
<td>Resolution of conflicts</td>
<td>This is a series of knowledge and abilities to understand and intervene in the pacific nonviolent resolution of conflicts. The capacity for mediation is also important.</td>
</tr>
<tr>
<td>Mental flexibility</td>
<td>This is the capacity for being able to adapt oneself to different situations, identify and know how to modify personal points of view.</td>
</tr>
<tr>
<td>Empathy</td>
<td>This is the capacity of perceiving what the other person can affectively feel. Putting oneself in the shoes of another.</td>
</tr>
<tr>
<td>Assertiveness</td>
<td>A competence to understand the ability of knowing how to be situated at an intermediate point between two other conducts: passiveness that consists of allowing third parties decide for oneself, or overlooking one’s own ideas, and the aggressiveness that appears when one is not able be objective and respect the ideas of others.</td>
</tr>
<tr>
<td>Personal improvement</td>
<td>Capacity to want to and know how to obtain the version of the personal and/or professional through the training, experiences... It is also related to identifying the strong and weak points, hypersensitiveness, learning from mistakes and having self-confidence.</td>
</tr>
<tr>
<td>Improvement of the environment in the center</td>
<td>Change that is perceived in the social relationships established in the institution both vertically and horizontally.</td>
</tr>
<tr>
<td>Ecology awareness</td>
<td>Competence of thinking about future generations through personal and professional actions.</td>
</tr>
<tr>
<td>Reaching objectives</td>
<td>Want to and/or know how to search for what one wants to achieve from a personal and/or professional point of view.</td>
</tr>
</tbody>
</table>
In addition, the content was also categorized referring to if it was something general, of the students, or of the teachers or of the team.

The quantitative results were analyzed in the SPSS program (version 20).

The results are revealed including the qualitative and quantitative data.

Results

The results are presented according to objectives:

Describe the initial expectations about Educational Coaching training

Figure 1 shows the average values of the expectations of the content by the 44 participants in the Educational Coaching training at the beginning of the 2014-15 and 2015-16 courses. The data were recompiled by means of two questionnaires with open questions and were later categorized following the concepts indicated in table 4. The following reasoning has been applied in the definition of the typographic size of each category to prepare the graph: 12 (average between 0 and 0.09), 14 (average between 0.1 and 0.19), 16 (average between 0.2 and 0.29), etc.

The data reveal that the participants had a special interest in improvement at a personal level (average value: 1.32) as well as improving their skill to reach objectives (average value: 1.41). Their desire to improve their empathy is situated at a second level of importance (average value: 0.30). Their ability to resolve conflicts, their ecology awareness, their skill to improve the environment in the center and their flexibility are situated a lower level (average values between 0.2 and 0.27). Their assertiveness is positioned posterior (average value 0.11). Their capacity for leadership is located at the lowest average points (0.14).

Reveal the aspects for improvement about Educational Coaching Training

No significant differences appeared in the evolution of the general variables; this is seen only in the variables of the resolution of conflict and personal improvement (<0.05) that drop, and the rest increase, although not in a statistically significant way.

This is complemented by the qualitative comments obtained nearly a year later when participants were asked how they had applied the training they received in the classroom. The majority indicated that they continuously did (85%) and 15% said they did periodically. Aspects of the training were implemented in tutorship, in the preparation of groups, in the care of the language and in such specific events such as the creation of a personal happiness notebook.

Describe the transversal technical competences of the teacher who performs the Educational Coaching Training

Regarding technical competences, once again, some do increase but not in a significantly statistical way (creating environment in the classroom, respect of the students, caring for the talents of learning society, personalized evaluation considering the initiatives of the students and interest in ongoing training), and in the competence for participation in the academic coordination of the center, there is a significant difference (<0.05) and an involution in the same position because the points decrease. The same occurs with the transversal competences, because only the ability of knowing how to manage information and the capacity of initiative increase significantly. The qualitative part qualifies these results with proposals for improving the relationship with the students; empathy, management of positive emotions and accompaniment for taking decisions.

Relate expectations, technical and transversal competences with the management and teaching functions

We see statistically significant differences before and after the training (table 5) only among those who form part of a management team and those who do not, in variables such as handling students with respect and aimed at results, which are higher in the second group, and personal improvement, which is greater among those forming the management team.
In addition to these results, we want to show some others that we think can complete a more extensive view. Women obtained significantly higher points than did men in the use of diverse teaching models (3.86 and 3.17, respectively) and in the participation in ongoing training activities to favor personal development (4.38 and 3.33, respectively), and by age, there are differences in the average position. Teachers in the Infant and Primary education levels obtained significantly more points in leadership, flexibility, empathy, performing cooperative work activities and organizing didactic activities so the students perform practice tasks, than did the Secondary education teachers after the training. By type of center, we found that the improvement of results was considered better by the teachers from Private Schools than those from the Public Centres, 50 over 3.58.

Discussion and conclusions

The results of this research indicate that the teachers showed significant regression in two aspects in which they had high expectations thanks to the coaching training: their personal improvement to develop themselves both personally and professionally and their capacity to reach objectives in any field of life. We understand that, paradoxically, these evaluations can show significant progress during training because of the overestimation effect due to an initial lack of knowledge of the competence. In this way, the participants make a sincere initial self-evaluation, although estimated in relation to their competences for resolving problems and personal improvement that would reduce the value when reaching the knowledge status of the competence according to the training model. We base this hypothesis on the training phases proposed by Gordon (1998).

Contemplating the indicated considerations, we understand that the results back-up the coaching capacity to favor orientation to results in the field of education (Fazel, 2013) through a constant reflection about education (Lofthouse, 2010) that improves the practice of the teacher in the classroom (Rodríguez, y otros, 2011). In addition, this type of training stimulates professional improvement in the participants (Devine, Meyers, & Houssenmaid, 2013).

With the results about the capacity to motivate the participants in the coordination bodies of their centers, we have made the same reading as with the previous variables. This way, we understand that the actuation has improved the capacity of the teachers to act in their centers (Rodríguez, y otros, 2011), therefore predisposing the teachers to perform projects for educational change in their institutions (Hattie, 2009).

The study also indicated that sometime after the teachers had finalized their training about coaching, they applied it in group training.

In this sense, this practice confirms the efficiency of the training, aimed at success in group collaboration (Teemant, Wink, & Tyra, 2011). It also strengthens the theory that this type of actuation favors the creation of a climate for exploring new possibilities (Blackman, 2010), an aspect we consider linked to the care for language that the teachers show one year after finalizing the coaching training program.

In addition, the consolidation of favorable results is also seen in that the participants declared being more empathetic, meaning they have a greater aptitude to stimulate a connectivity between the members of the educational community (Hook, McPhail, & Vaas, 2006). Another outstanding result is that they have a greater capacity for managing positive emotions, something associated with a greater skill in providing emotional support (Jiménez, 2012) and in using their emotions as a source for learning (Hunt, 2017). On the other hand, the participants also saw their skill for accompanying the taking of decisions strengthened, this capacity that is stimulated through tutorship in the managing of jobs (Lárez, 2008) as well as in the aptitude of the teachers to stimulate the opening of referential frameworks (Rhodes & Benicke, 2002) and generally in the professional development of their students (Gordon, 1998). Here, we should indicate that the promotion of this ability in the students strengthens their commitment to the school (Mager & Nowak, 2012).

Regarding roles, the quantitative results indicated the search for personal improvement in the managers that we associate with their desire to be more autonomous (Schleicher, 2012) and to their communication abilities (Araiza, Magaña, & Carillo, 2014). On the other hand, the teachers have grown primarily in their ability to handle the students with respect. We consider that this latter point is associated with the promotion of support in some centers (Fernet, Guay, & Austin, 2012) as well as the promotion of human competence (Medina & Gómez, 2014).

Gender has also qualified the results, indicating that women have granted more relevance to the use of diverse teaching models. We understand that this point has certain simphony with that offered by another research study that indicated that women have a greater disposition for competence work than do men (Méndez, Méndez, & Fernández-Río, 2015).

This research has great potential in the sense of providing research for Educational Coaching and its practice. We highlight that we have data for over two years, monitoring, teachers at different educational levels, and the use of quantitative and qualitative instruments. The primary limitation is the lack of group control, which we have tried to replace by considering the impact perception of the training after some time. Although we would have liked to have more teachers, we think that they gave the necessary viewpoint to advance the science of the subject concerning us. Along this line, in the future we want to continue with this focus adding more teachers and centers, as well as creating a portfolio of the teacher that indicates his/her training and positions in practices with evidence. We also want to recompile the voices of the students and family if they perceive changes in the students through the teachers, and we are aiming towards some research work that links
Educational Coaching with the Design Thinking methodology. That will mean that one can step-by-step talk more frankly about Educational Coaching and not only of coaching applied to education. We aim our Comprehensive Model of Educational Coaching in this direction and towards further development of the areas of improvement presented in this article (Bozer & Sarros, 2012; Cortés-Pascual, 2019; Theeboom, Beersma, & van Vianen, 2014; Freedman, 2018).

References


Bruijn, E., & Leeman, Y. (2011). Authentic and self-directed learning in educational coaching with the Design Thinking methodology. That will mean that one can step-by-step talk more frankly about Educational Coaching and not only of coaching applied to education. We aim our Comprehensive Model of Educational Coaching in this direction and towards further development of the areas of improvement presented in this article (Bozer & Sarros, 2012; Cortés-Pascual, 2019; Theeboom, Beersma, & van Vianen, 2014; Freedman, 2018).

References


Bruijn, E., & Leeman, Y. (2011). Authentic and self-directed learning in educational coaching with the Design Thinking methodology. That will mean that one can step-by-step talk more frankly about Educational Coaching and not only of coaching applied to education. We aim our Comprehensive Model of Educational Coaching in this direction and towards further development of the areas of improvement presented in this article (Bozer & Sarros, 2012; Cortés-Pascual, 2019; Theeboom, Beersma, & van Vianen, 2014; Freedman, 2018).

References


Towards a Comprehensive Model of Educational Coaching


