

1 **A comparative analysis of the coaching skills required by coaches operating in different**
2 **non-competitive paddlesport settings.**

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10 **Abstract**

11 This paper examines the coaching behaviours of different paddlesport coaches (n= 17). A
12 sample of coaches specialising in non-competitive paddlesport from professional, club and
13 educational contexts are examined utilising a thematic analysis of semi-structured interviews.
14 The three groups are shown to share common aspect such the importance of interpersonal skills
15 within their coaching, the development of their coaching skill set via experiential learning and
16 effective reflection and the importance of effective Professional Judgment and Decision
17 making. However, the groups differ in respect of how they view their coaching role, the role of
18 personal performance skills within their coaching and the impact of formal coach education in
19 their development. The implication for coach education is that coaches working in an
20 educational setting may be better served by a coach educational process that focusses more
21 specifically on their skill set requirements and less on performance development.

22 **Keywords**

23 Adventure Sport; Paddlesports; kayaking; teaching

24

1 **Introduction**

2 Research in the field of sports coaching and, more specifically, the coaching process
3 (Collins, Abraham, and Collins, 2012; Côté, 2006; Cross, 1995; Cushion, 2007; Franks, Sinclair,
4 Thomson, and Goodman, 1986; Jones, Armour, and Potrac, 2002; Lyle, 1999) has focused
5 predominantly on competitive sports. Recently, research has started to examine coaching
6 practices in non-traditional sports (Wheaton, 2004, 2014), such as nature sports (Krein, 2014;
7 Melo and Gomes, 2017), lifestyle sports (Wheaton, 2004), action sports (Booth, Thorpe, and
8 Thorpe, 2007), extreme sports (Frühauf, Hardy, Pfoestl, Hoellen, and Kopp, 2017; Brymer and
9 Schweitzer, 2017) and adventure sports (Peacock, Brymer, Davids, and Dillon, 2017). Accepting
10 a lack of clarity regarding the exact nature of these sports, some researchers have specifically
11 examined the coaching process within adventure sport (Cooper and Allen, 2017; Berry, Lomax,
12 and Hodgson, 2015; Kearney and Christian, 2015; Pulling, Bunyan, and Sinfield, 2015) with the
13 aim to inform coaching practice and the training of coaches. Cooper and Allen (2017) discussed
14 the skills and behaviours required by the Adventure Sports Coaches (ASCs) and highlighted the
15 process-focused starting point for ASCs. Collins and Collins (2015b, 2016) proposed and
16 identified the roles of an ASC and offered an alternative role-focused starting point.

17 This paper aims to bridge the positions of Cooper and Allen, (2017) and Collins and
18 Collins (2012) by examining the ASCs' perceptions of (a) their role(s), (b) the skills necessary to
19 fulfil their coaching role and (c) how they developed these skills. This research explores three
20 areas of non-competitive coaching, professional, voluntary and educational, and asks the
21 questions, "What are the key skills expert coaches perceive necessary to fulfil their coaching role
22 in their chosen discipline and setting?" and "How have these coaches acquired and developed
23 these skills?"

24 ***Adventure sports***

25 An ongoing and longstanding debate about what is, or isn't, sports coaching has recently
26 begun to include adventure sports. Conceptually, coaches and coaching seem to exhibit some key

1 features, skills and behaviours that have to be contextualised, suggesting that coaching is domain
2 specific (Cross, 1995; Cushion, 2007; Fairs, 1987; Gilbert and Trudel, 2004; Jones et al., 2002;
3 Lyle, 2002). Lyle and Cushion (2017) highlighted competition as a feature of coaching,
4 competitive adventure sports clearly fall into this view of coaching. Others (Jones, 2006;
5 Werthner and Trudel, 2006; Wikeley and Bullock, 2006) argued that coaching, at its heart, is
6 educating and therefore all coaches are educators, regardless of setting. Our preferred position
7 reflects the later view as these encompass all forms of adventure sports.

8 We propose that adventure sports take place in natural, unmanaged environments and are
9 not constrained by a set of rules. Adventure sports are commonly associated with risk (Peacock
10 et al., 2017), which has been presented as a continuum (soft–hard), representing degrees of
11 challenge, risk, uncertainty, intensity, duration and perceptions of control (Varley, 2008).
12 Adventure sport participation encompasses a broad range of learning demands; as a commodified
13 perspective, the coach offers enough information for the participant to undertake the activity and
14 achieve what the participant wants from the experience. From an “authentic” perspective
15 (Valkonen, Huilaja, and Koikkalainen, 2013), the learning experience focuses on the development
16 of the technical and cognitive skills needed to undertake the activity independently of the
17 facilitator (Christian, Berry, and Kearney, 2017). Research on ASC (Collins and Collins, 2016)
18 has suggested that whilst there is an overlap of coaching behaviours and skills between all
19 coaches, certain skills (e.g., risk management, personal ability, individualisation) have a higher
20 profile and significance in the adventure sports context.

21 ***Role of the Adventure Sports Coach***

22 Collins and Collins (2016) suggested that ASCs operate across three overlapping roles:
23 performance development, personal development and experiential development. In a
24 performance-development role, the coach’s focus is on improving sport-specific performance. In
25 the personal-development role, the coach takes a more holistic role, developing knowledge, meta-
26 skills and behaviours; and in the role of experiential development, the coach facilitates an
27 experience or guides within an environment as part of a journey or exploration. The coach moves

1 between these roles during a session depending on the demands of the environment, the
2 participants and the session objectives. The potential range of objectives and needs of participants
3 subsequently demands an adaptive and flexible approach from ASCs and is an integral aspect of
4 their practice (Cooper and Allen, 2017). However, little is known about the skills coaches employ
5 in non-competitive settings, in particular within adventure sports, and how they were developed.
6 Therefore, the purpose of this study was to examine the perceptions of ASCs from one discipline
7 (paddlesport) who worked in non-competitive settings. The specific purposes were to examine
8 coaches' perceptions of (a) their role(s), (b) the skills necessary to fulfil their coaching role, and
9 (c) how they developed these skills.

10 **Method**

11 A qualitative phenomenological methodology was adopted to enable the breadth and richness of
12 the anticipated responses to be explored (Braun and Clarke, 2006). In this case, the key skills of
13 coaching and their acquisition were considered.

14 ***Participants***

15 Participants were British paddlesport coaches (n=17, Mage= 42 years) from three
16 domains of delivery professional coach (n=6 male, Mage= 49 years); voluntary club coach (n=5
17 male, Mage= 61.2 years); educational coach, (n=6, 4 male, 2 female, Mage= 48 years). To ensure
18 a sufficient level of domain expertise, experience (Mean experience= 22.4 years) and inherent
19 quality in terms of participants' self-reflective ability, purposive sampling was employed based
20 on the criteria outlined in Table 1.

21 *Insert Table 1 close to this point*

22 The coaches were recruited through personal contact with the research team. For clarity
23 and confidentiality, coaches are identified alphanumerically (e.g., professional coaches 1-6;
24 educational coaches1-6; voluntary coaches1-5).

1 ***Procedure***

2 A semi-structured interview guide was initially designed and piloted (Willis, DeMatio,
3 and Harris-Kojetin, 1999) with a small representative group (n=4). Minor amendments were made
4 as a result of this process and the guide piloted again prior to data collection. Following
5 participants' consent, the interviews were conducted with each coach at a location and time
6 convenient to them. Table 2 provides the initial questions for the three-part interview.

7 *Insert Table 2 close to this point*

8 Interviews had a mean duration of sixty-seven minutes. Data were digitally recorded in
9 mp3 file format and later transcribed. The first author conducted the interviews and initial analysis
10 of transcripts. This study was carried out with the approval of the university's ethics committee.

11 ***Data Processing and Analysis***

12 Following the guidance provided by Braun and Clarke (2006), data were analysed using thematic
13 analysis. Interviews were transcribed verbatim, read, checked and corrected against the recorded
14 interview. Each transcript was actively reread several times prior to fully comprehending the
15 essential features (Sandelowski, 1995) to assist in a complete analysis. General impressions, such
16 as similarities and differences, were written in note form on the transcripts prior to an initial
17 coding and identification of low order themes utilising NVivo 11 for Windows. Data codes were
18 then collated into higher ordered themes based on common features and the relationships between
19 those lower order themes. To avoid researcher bias, once the provisional analysis had been made,
20 a follow-up discussion was had with each of the research participants to check the interpretational
21 accuracy. Importantly, the emergence of themes at any point during the analysis did not depend
22 on the prevalence of a code, but rather on what the theme revealed about the nuances of the
23 coaches' perceptions of their roles. Within a final phase, these themes were subject to review and
24 further refinement with the third author who had not taken parts in stages one, two and three. The
25 principal aim, in this stage, was to check the understanding and interpretation of data and,
26 therefore, the emerging themes throughout the whole dataset.

1 In addition, the third author independently coded a random sample of the transcripts
2 (50%) to guard against misinterpretation and researcher subjectivity (Morrow, 2005). During this
3 process, data were coded against the emergent themes and assessed for the level of agreement.
4 Any disagreements regarding these differences in allocations of codes into low order themes were
5 discussed until a consensus was reached.

6 **Results**

7 The thematic analysis identified 1,237 raw data codes, which were organized into 47
8 lower-order themes and 10 higher-order themes. For the purposes of clarity in presenting the
9 findings from the study, the higher themes and their associated lower order themes were organized
10 into 3 categories each relating to one of the three research aims (a) the coaches' role(s), (b) the
11 skills necessary to fulfil the coaching role and (c) how the coaches developed these skills. (Table
12 3, 4 and 5 respectively). Illustrative quotes have been utilised in table 3 a, b, c and the discussion
13 to demonstrate the depth and richness found within the data.

14 **Discussion of Results**

15 *Insert tables 3 close to this point*

16 ***Description of Role***

17 The participants perceived their role as reflecting the context of their coaching practice,
18 which supports the contentions of Collins and Collins (2015b). Looking within each coaching
19 domain, the coaches demonstrated a clear comprehension of their role and identity (Strets and
20 Burke 2003; McCall and Simmons 1978) and a common practical skill set. Additionally, the
21 coaches did identify role, identity and skill set differences that were specific to each domain. This
22 finding supports Pope, Hall and Tobin (2014) interpretation of McCall and Simmons's (1978)
23 position that 'a conventional dimension exists such that meaning can be shared between
24 individuals acting in the same roles, or they may be idiosyncratic in that a person ascribes a unique
25 meaning to a role that differs from others' (p. 148). This would also support Nash, Spoule and

1 Horton's (2008) contention that expert coaches show a clear development of their thoughts and
2 depth of understanding of the complex and dynamic role of the coach as it applies to their domain.
3 Along with a clear philosophical identification of their role that underpinned their practice, which
4 was common with and also distinct from their fellow coaches.

5 The educational coaches clearly perceived themselves as primarily educators.
6 Educational coach 4 stated, 'Just the context of why are we doing this? Especially in my job. Why
7 are we going canoeing? It's not because I'm trying to turn them into canoeists.' In contrast, the
8 professional coaches saw themselves as creating independent performers supporting the
9 contentions of Christian, Berry and Kearney (2017). Professional coach 2 explained this focus,
10 stating, 'Trying to create independence, not consciously pushing it but knowing that's where they
11 are headed'. The educational coaches' educator focus placed an emphasis on developing an
12 independent person, a more holistic approach, rather than an independent canoeist. Consequently,
13 the educational coaches focused on skill development in a quick and functional way, with less
14 concern for technical form, efficiency or retention than the professional coaches. Educational
15 coach 6 explained,

16 So, it comes back to your [*educational*] objectives.... I'd say that's the
17 experiential and educational element that they are involved in. I'm not going
18 to teach them much about paddling because we'll only be going over there
19 but they'll never be here amongst these mountains again experiencing
20 this....exactly.

21 In contrast, voluntary coaches saw their role as developing paddlers and supporting others
22 in their paddling development within the club, which may not lead to a performance that is
23 independent of the club. These coaches recognised that not everyone wanted to be independent
24 of the club, the social aspect being the significant factor. In short independence within the club
25 structure. Voluntary coach 3 highlighted the different individual motivations and stated the
26 importance for the individual.

1 ‘The whole purpose is to give them the opportunity to become an independent
2 paddler. To set their own goals. That’s theirs though and not mine. Some don’t
3 want to operate outside the club. They’re happy for you to do all the planning and
4 what have you. They just love the social.’

5 Professional coaches saw their role distinctly as creating independent paddlers, as
6 performers and as learners, able to participate within the sport without the support of a coach or
7 leader. Professional coach 1 stated, ‘I see my role as enabling somebody to be independent on the
8 sea.’ Professional coach 5 went further, describing the focus of his coaching philosophy and
9 approach: ‘Creating self-coaching strategies [for the clients] because courses are short and they
10 will be going away to continue to practice and develop without a coach.’

11 Collins, Collins and Grecic (2014) suggested that ASCs are engaged in developing
12 independent performers, a position supported by Christian, Berry and Kearney (2017), though
13 this is by no means unique to ASCs. It seems likely that because of the lack of rules and specific
14 performance objectives being set by the athlete, independence may be more central to
15 participation in adventure sports and thus central to its coaching. More fundamentally, the nature
16 of independence is less clear and requires greater investigation. Partial independence within the
17 structure of a course, similar to that encountered by voluntary coaches, within the club, or other
18 sports coaches working within the constraints of competitive rules and regulation, remains a
19 possible objective. The professional coaches described developing independence at the heart of
20 their coaching approach while the voluntary coaches indicated that this was a goal for many but
21 not all their participants. Pragmatically, the educational coaches could not develop an independent
22 paddler given their shorter contact time with students. Educational coaches viewed independence
23 as an aspect of the longer term broader educative process. The voluntary coaches and professional
24 coaches’ context allowed the development of independent canoeing performance. The nature and
25 extent of that independence reflects the motivation of the participants, comprehending the
26 participants’ motivations appears to be crucial to providing effective coaching.

1 *Skills for Coaching*

2 *Insert tables 4 close to this point*

3 Reflection, judgement and decision making, creativity, flexibility and refined
4 interpersonal skills were common coaching skills identified across all the participants and shared
5 with many views of coaching (Cooper and Allen, 2017; Abraham, Collins and Martindale 2006)
6 Professional coach 2 commented that 'I become more reflective as I've become more
7 experienced,'. This relationship between experience and reflection may be indicative of reflection
8 as an integral aspect of coaching practice in the adventure sport context (Collins and Collins,
9 2015). For example, Voluntary coach 3 linked reflection to age in relation to his coaching practice,

10 I often reflect, as I get older I reflect more I've got more time! I think reflection is
11 quite a good tool and it really does let you examine what you're doing and whether it's
12 working or not.

13 In keeping with many studies (Côté, 2006; Erickson, Côté and Fraser-Thomas, 2007;
14 Schempp and McCullick, 2010), participants valued their own hands-on experience and its
15 associated reflection. Reflection on coaching in a range of contexts is an integral component for
16 all participating coaches in traditional sports. Like other coaches, ASCs engage in reflection in a
17 similar manner to coaches in competitive sports.

18 The interpersonal skills of coaching, e.g., reading people, developing an effective
19 interpersonal relationship, developing the ability to pitch content effectively, etc., were common
20 and valued factors for the coaches. This finding is consistent with Schempp, Tan and McCullick
21 (2002), who identified 'acute perceptual capacities' (pg. 101) as a key feature of expert teachers.
22 The acquisition of these skills appeared implicit in nature, based on years of experience and
23 emotional intelligence rather than any formal education process.

24 The coaches reported on a need for agility in their coaching practices in order to respond
25 to the demands of students, the environment and the synergy of the two. The coaches drew on a
26 selection of options in a given context based on a nuanced decision-making process that was

1 driven by a situational awareness (Endsley 1995a) and comprehension of the session demands
2 (Abraham, Collins and Martindale and Collins 2006).

3 *Professional Judgement and Decision Making and Constraints-led Approaches*

4 The coaches in this study placed athlete-focused learning at the centre of the coaching
5 process (Cooper and Allen, 2017. P15). It was athlete-focused, individualised and differentiated
6 approach that was learning centric. This approach was balanced with the demands of other
7 individuals within their coaching group (Kidman, 2005; Kidman, Lombardo, and Jones, 2010;
8 Cooper and Allen, 2017).

9 Universally, the coaches reported constantly gathering information regarding participants
10 via a process of continual observation and questioning. The coaches constantly watched and
11 audited the environment, the participant and the interaction of the two in order to identify the
12 situational demands that drive the session and tune the coaching process accordingly. These
13 demands drive the coaches' decisions, the selecting and the designing of tasks and the venue.

14 The demands informed how the coaches manipulate the constraints (i.e. task, participant
15 or environment), knowledge of the environment, then being in the right place within that
16 environment being key. The coaches described a process resembling the constraints-led model of
17 coaching proposed by Davids, Button, and Bennett (2008) and Brymer and Renshaw, (2010).
18 Crucially, the task, environment and participant constraints were actively manipulated by the
19 coaches, and the relationships made explicit by identifying conceptual links and associations
20 between the task, environment and individual. In doing this, they demonstrated and encouraged
21 a cognitive involvement in the learning process, which appeared at odds with Davids et al.'s
22 (2008) ecological psychology perspective but may reflect the cognitive focus of coach education
23 programmes in paddlesport. This conflation of paradigms is clearly worthy of further
24 investigation.

1 *Role of personal performance skills*

2 A key finding of this study relates to how the coaches viewed the importance of their own
3 personal skills in the craft they were coaching. All groups felt that their personal ability as a
4 canoeist was important and underpinned their coaching activities, reflecting the model put
5 forward by Collins and Collins (2016). This relationship was not, simply to equate, good coaching
6 and good personal performance. The relationship was more nuanced. The professional coaches
7 and voluntary coaches considered personal ability beyond safety management and technical
8 insight. The coaches linked personal performance with their own confidence and kudos. To ‘walk
9 the walk,’ (voluntary coach 3) increased respect from their participants. ‘I need to be able to
10 perform. It impacts on the coaching...my confidence. There’s a direct link for me between
11 personal performance and coaching confidence’ (professional coach 6). Such a position may
12 reflect the lack of any clear mental model of technical template for adventure sports performance
13 (Simon, Collins and Collins, 2017). The professional coaches and voluntary coaches use their
14 personal ability as an aid to fully understand aspects of performance and as a diagnostic tool ‘I
15 often model their [the students] performance to give me feedback about a performance and help
16 me understand where they are coming from’ (professional coach 6). Being active and skilful as a
17 canoeist is an important aspect of being an expert coach in their setting, this differs from
18 competitive sports coaches. Gilbert, Lichtenwaldt, Gilbert, Zelezny and Cote (2009) suggested
19 successful competitive sports coaches are better than the average participants, given the extensive
20 experience they have to draw on, but that they are no longer active in the sport outside of coaching.

21 The educational coaches saw their personal ability as almost entirely a safeguarding
22 aspect of their role with a high personal skill level as a bonus because it enabled ‘fast-tracking’
23 students to the functional performance highlighted earlier. An ability to undertake the educational
24 experience sooner. Effective and safe movement through the environment was seen as important
25 to enable the achievement of the educational objectives of their sessions. ‘There’s a minimum
26 ability to cover safety to move around adequately other than that I guess I’d just describe it as
27 having a greater toolkit to choose from’ (educational coaches 6).

1 *Development of Skills*

2 Insert tables 5 close to this point

3 *Motivation to start paddling*

4 Three common themes emerged across the professional coaches and voluntary coaches
5 groups: (a) a desire for authentic adventure, (b) a desire to be in the outdoors and (c) a lack of
6 interest in traditional competitive sports. Reflecting Krien (2014) and Melo and Gomez (2017),
7 all participants' highlighted interaction with the natural environment as a key attraction of
8 adventure sports: 'the environment was a motivation' (professional coach 1). Professional coach
9 2 went further and stated, 'I wasn't really interested in traditional sports. I wanted to go exploring.'
10 However, the educational coaches (n=4) started paddling because they wanted to work in outdoor
11 education and saw paddlesports as a vehicle for education.

12 And there's the pressure that you are going to be on placement and you are going
13 to be working with these activities. Paddling courses...so you'd better pull yer
14 finger out and learn a bit! (Educational coach 6)

15 *Motivation to start coaching*

16 The voluntary coaches (n= 4) became coaches in response to clubs' needs or evolved
17 from a more general volunteering ethos:

18 I'd help out in the summer because they needed coaches on the beach and what have you.
19 And I had the knowledge already through the surfing. And one night somebody asked me
20 if I could give a hand because I was down there anyway... I had to take him (my son) so
21 I was just hanging around at the side of the pool. And after a while, it came time to ask if
22 you wanted to go on a course to take the kids. And I said ok. (Voluntary coach 5)

23 The voluntary coaches demonstrated a societal aspect of their activity and a broader
24 community responsibility when asked why they coached. This involvement with the club and
25 coaching was altruistic, with the coaches recognizing and valuing their contribution to others'
26 enjoyment of the sport.

1 I don't think I've ever felt that because I'm a volunteer that it didn't matter. It's important
2 personally but it's also important because you're representing a structure and a group of
3 people. Because that's what I believe. It's a safety net.... And also people do want to put
4 back into the club... I think I've got so much from all the paddlesports. I've done when
5 people ask me to pass on the skills to allow them to go there...if other people get from
6 that what I've got from it then that's motivation enough. (Voluntary coach 4)

7

8 For the educational coaches, the decision to become a teacher often predated the decision
9 to paddle or coach paddlesports. EC4 stated, 'I didn't have a personal desire to get anything more
10 than working qualifications and I'm still the same to this day.'

11 All the professional coaches started coaching later in their outdoor career and did not
12 identify a career as a coach until they had been working for some time. 'I passed my level 3 and
13 5* ...and realised that if I put some effort in I could make a career of this. Rather than just follow
14 the sun' (professional coach 2). All started as generic outdoor instructors and held a wide range
15 of qualifications and experiences prior to specialising as an ASC.

16 *Role of coach education*

17 Reflecting the findings of many authors (e.g., Nash, 2008, Nash, Sproule, Callan,
18 McDonald, and Cassidy, 2009) the coaches perceived the impact of coach education as varied. A
19 single educational coach reported coach education helping their development, whereas the
20 voluntary coaches (n=3) reported national governing body (NGB) coach education as helping
21 more significantly.

22 I did the coaching [course] and that changed the way I did things. Up to then, I
23 taught almost military...to be fair to [*The NGB coaching development officer*] he
24 again was very helpful in getting our qualifications up to speed and in a very nice
25 way. (Voluntary coach 3)

26 The professional coaches reported that higher levels of coach education had greater
27 relevance to the more experienced and qualified coach. The professional coaches reported that

1 the education process stimulated thought and raised awareness of theories that had practical
2 application in their roles. Conversely, the professional coaches also reported that at lower levels,
3 the coach education had limited value.

4 All participants reported that most of their learning was experiential and benefited from
5 regular coaching activity. By implication, reflection on the participants coaching would be
6 important. This echoes findings by Cushion, Armour and Jones (2012), that rather than focusing
7 on technical aspects of coach education early in a career, creating opportunities to actually coach
8 and reflect may be more appropriate. However, in an adventure sports context, a balance would
9 need to be struck to ensure the safety of the students and possibly developing reflective skills by
10 the coach.

11 *Community of Practice*

12 The coaches commented that experiential learning is important and by implication reflection as
13 cited above. Additionally, the coaches reported that being part of a community of practice was
14 significant in developing necessary skills: 'and of course whilst there, I worked with a lot of
15 freelance staff and so you see good and bad! And the bad was just as informative as the good'
16 (educational coach 2), 'I'm leading a small group of coaches now. It's useful reflecting time for
17 me' (professional coach 6), voluntary coach 3 referred to his fellow coaches: 'I found sometimes
18 that as I waxed and waned very often the person that I'd taught would be teaching me.' The
19 immediacy of that community and ease of access appeared paramount.

20 **General Discussion**

21 The findings support the model of Collins and Collins (2016), in which ASCs fulfil three
22 overlapping roles: performance development, personal development and experience
23 development, underpinned by an ability to be independent in the environment that was facilitated
24 with a refined judgement and decision-making ability. Within this study, the educational coaches
25 predominantly inhabited the personal development and experiential development roles, moving
26 into performance developments as the educational demands required. Thus, the educational

1 coaches used basic performance development approaches that encouraged rapid skill acquisition
2 enabling participants to access and move through the environment. The needs of the educational
3 coaches differ from those of the professional coaches and voluntary coaches. The educational
4 coaches require in-depth knowledge and personal skills to get the most from the personal and
5 experiential aspects of their work and meet the educational objectives of the given session. The
6 performance development requirements of their role involve more ‘quick fixes’ and ‘fast-
7 tracking’ approaches to skill acquisition at the expense of longer-term development and skill
8 retention. The educational coaches approach differs from that of competition coaches, who are
9 often looking for the most efficient and effective technique (Bartlett, 1992; Hannula, 2003; Koh,
10 2001) and other ‘marginal gains’ (Hiley, Wangler, and Predescu, 2009).

11 Educational coaches may be accurately described as teachers using paddlesports as a
12 medium. Lyle (2002) suggested that ‘sports teaching’ is a more pertinent description of coaching,
13 where ‘no specific preparation for competition is involved’ (p. 54). This may seem a more
14 accurate description of the educational coaches in this study. Penney (2006) and Wikeley and
15 Bullock (2006) suggested that defining coaches as engaging in helping their participants to learn
16 more broadly may be more appropriate. The educational coaches needs clearly differed from those
17 of the professional and volunteer coaches in this respect.

18 Practical hands-on experience and reflection on coaching are key components for all
19 participating coaches, echoing the findings of Côté (2006), Erickson, Côté and Fraser-Thomas
20 (2007) and Schempp and McCullick, (2010). These findings suggest that rather than focusing on
21 technical coach education early in a coach’s career, creating opportunities for them to coach
22 would be beneficial prior to technical input (Cushion, Armour, and Jones, 2012). However,
23 development should not be left to experience alone, rather a combination of experience with
24 integrated reflective skills may enable a deeper comprehension of the coaching context and its
25 demands (Cushion et al. 2012). Such an approach, without the implicit preoccupation with
26 technical performance or risk management, could explicitly support the coach as a reflective
27 practitioner. In the case of ASCs, the security of participants would suggest a need to balance this

1 access to coaching with key safety management skills (including personal ability), supervised
2 experiences and critical reflection of coaching in an authentic context (Cushion et al., 2012).

3 Reflection is seen as a critical feature of coaches' practice and learning (Gallimore,
4 Gilbert, & Nater, 2014) and a feature of coaching effectiveness and coaching expertise (Côté and
5 Gilbert, 2009). The coaches in the current study clearly saw reflection as a skill integral to what
6 they did and how they developed as coaches. This finding further reinforces the place of reflection
7 in coaching and supports contentions that coach education should seek to use and develop
8 coaches' critical reflection (Cushion, et al., 2012). However, consideration is also needed of what
9 is reinforced rather than challenged as a result of the reflective process (Cushion, 2018).
10 Therefore, researchers should continue to critically examine coaches' processes of reflection,
11 what, who, when, and how it informs coaching practice and learning.

12 Working alongside and discussing practice with other coaches in a community of practice
13 (Wenger and Snyder, 2000) was seen by all the participants to be essential in their development
14 (Stoszkowski and Collins, 2014). The specific roles of the participating coaches within these
15 communities of practice evolved over time; they became more experienced and established
16 practitioners and central lead figures within their own communities.

17 Significantly, the voluntary coaches felt that coach education and support from the NGB
18 via development programmes had helped them in their development. The educational coaches
19 and professional coaches cohort felt that formal coach education had played only a small role in
20 their development (see also Cushion, Armour, and Jones, 2012; Nash, Sproule, and Horton, 2017).
21 The educational coaches and professional coaches identified that they became receptive to coach
22 education once they had experience and understood the context and activity of the coach, our
23 earlier observation on experience. Greater facilitation and exploitation of the community of
24 practice and targeted development programmes for the educational coaches and professional
25 coaches would seem to be needed if they are to support coaches operating in these settings. The
26 value of NGB education possibly reflects the voluntary antecedents of NGB training programmes

1 in the UK and an inherent tension with the increased professionalization and commercialisation
2 of adventure sports in the UK (Loynes, 1998).
3 The identification of a role for the educational coaches in which they are predominantly focussed
4 on the personal and experiential development of their participants differentiates them markedly
5 from the other two groups of coaches in this study. The professional and voluntary coaches'
6 emphasis being on performance development. Traditional forms of coach education with a
7 performance-focus, input on technique and long-term skill development would appear to serve
8 the latter two groups reasonably well. Not so the educational coaches who may benefit from
9 programmes that help maximise personal development and experiential learning opportunities.
10 Pragmatically, the educational coaches may also benefit more from having a range of potential
11 solutions to facilitate travel through a particular environment. These travelling and leadership
12 skills appear more valuable than technical coaching skills. So what should coach education do?
13 What would it look like? Cushion et al 2012 suggest that coach education is likely to have a low
14 impact on coaching practice and struggle to compete with coaches' experiences as a participant
15 and coach. Therefore, it needs to draw on the coaches' experiences and development of their
16 critical reflection so that they can 'develop themselves' in their contexts. Cushion et al go on to
17 suggest mentoring and reflection in situ. But more it is also about coach education developing
18 critical thinking skills rather than purely sport-specific content.

19 "We believe that coach education needs to explore new knowledge and ways of
20 thinking and to be less concerned with guarding old ideas (Schempp, 1993). What
21 we propose is a model of critical thinking that will allow coaches to develop their
22 own processual "expert toolbox" as professionals (Cassidy & Jones, in press) and
23 not follow blindly generic guidelines or mimic the practice of observed others."

24 (Cushion, 2001 p. 226).

25 We would concur with these sentiments.

26 The professional coaches reported independent performance as a primary aim and saw it
27 as an inherent part of AS coaching; reflecting the epistemological positions highlighted by

1 Christian et al (2017) the voluntary coaches reported independence as a goal for many of their
2 paddlers. This was in contrast with the educational coaches. Independence requires participants
3 to be active in the decision-making process, which fundamentally affects the foci and structure of
4 any coaching (Cooper and Allen, 2017).

5 ***Limitations and Further Research***

6 The limitations of the qualitative investigation approach, such as limited transferability
7 and generalisability to other sports are acknowledged. In addition, it is important to recognise the
8 authors' positions and relationship with the participants. Both the first and third authors are
9 paddle-sports coaches of high standing and are known to the participants. This enabled an easy
10 rapport to be established but also had the potential to influence responses and behaviour during
11 the interviews. Both authors have been senior trainer for the NGB; both will have acted as either
12 trainer or assessor to participants during their coaching career given the selection criteria. This
13 potential hierarchical relationship may influence the participant's openness and comfort levels
14 during interviews. As a cross-sectional group educated via the same NGB coach education
15 process, the findings have the potential to reflect characteristics of that particular coach education
16 programme.

17 Access to suitably qualified voluntary coaches and access to female coaches of suitable
18 qualification and experience across all participants proved equally difficult. The numbers of
19 female coaches who met the criteria is very low. Female coaches only make up 28% of the total
20 British Canoeing Coaching workforce. There are only 11 female level 5 coaches from a cohort of
21 405. Of these 11 only 5 are still active as coaches. None of these were geographically accessible
22 for this study. This research was conducted in the UK with adventure sports coaches with a
23 paddlesport background, thus was geographically and discipline-specific. Future research should
24 seek to determine more about the roles, skills, and development of women coaches in adventure
25 sports.

1 If the findings of this research were to be used to inform the educational process of future
2 paddlesports coaches the research would be strengthened if it was extended to other paddlesport
3 coaching domains and disciplines. For example, educationally based coaches working over more
4 extended periods with athletes, coaches of competitive paddlesports disciplines doing so either in
5 a voluntary or professional capacity.

6 **Conclusion**

7 This study reinforces the findings of Collins and Collins (2014, 2015b, 2016) by
8 supporting their description of the differing roles of the ASC and the need for an ability to perform
9 in the environment. This study has shown the extent of the shared perceptions of the coaches'
10 roles and skills and by implication perhaps the developmental needs of coaches working in these
11 varying contexts within this single adventure sport discipline. The overlapping requirements of
12 performance development for professional coaches and voluntary coaches and holistic focus of
13 the educational coaches are highlighted. The educational coaches were unique in becoming
14 paddlers and coaches with the distinct objective of working in outdoor education and therefore
15 have different educational and development needs to the performance and volunteer coaches.
16 Coach education courses that focus on experience and reflection prior to technical input may
17 change aspects of coach education while building on a practical capacity for the coach to move
18 about the environment in which they coach.

19

20

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1 *Table 1: Criteria for selection of participants*

| | Professional Coaches (PC) | Voluntary Club Coaches (VC) | Outdoor Educational Coaches (EC) |
|--|--|--|---|
| Coaching non-competitive paddlesport | Yes | Yes | Yes |
| Years of experience | Minimum 10 years | Minimum 15 years* | Minimum 10 years |
| Level of Qualification | Minimum BC Level 5 | Minimum BC Level 3 | Minimum BC Level 3 |
| Remuneration | Paid | Voluntary | Paid |
| Operating environment | Up to Advanced | Up to Advanced | Up to Moderate |
| Autonomy within coaching | Yes | Yes | Yes |
| Coaching context exclusivity | No | Yes | Yes |
| identify as canoeist/ kayaker | Yes | Yes | Yes |
| Willingness to unpack their coaching practice | Yes | Yes | Yes |

2 * Note - This level of experience was used rather than 10 years as with the other 2 groups as
3 preliminary work revealed that VC coaches with only 10 year experience were not yet experts.

4

5

1 *Table 2. Interview guide*

| Questions | Prompts | Notes |
|--|--|--|
| Section 1 - Personal paddling and coaching background | | |
| If you were to describe your job/role now how would you describe what you do? | <ul style="list-style-type: none"> • Role frame | <ul style="list-style-type: none"> • Capture overview of their role as they see it. Impacting factors etc. |
| How did it all start? Tell me about how you started out in paddling and ended up where you are now? | <ul style="list-style-type: none"> • Inspired • role models • motivation to paddle initially | <ul style="list-style-type: none"> • Why did they start paddling? • Overview of their paddling experience. Its depth and breadth • Any key events in this history that made them choose paddling and subsequently coaching as a career pathway. |
| How/when did you start coaching? What was your initial motivation to coach? | <ul style="list-style-type: none"> • When did you consider coaching to be a career path? • Why do you volunteer? | |
| Were there any critical experiences or individuals that you feel impacted on your early | <ul style="list-style-type: none"> • Personal philosophy • Inspiration? • Developing epistemology | <ul style="list-style-type: none"> • Motivation • early influences on personal philosophy • pivotal incidents that may be expanded on later |

| | | |
|--|---|--|
| <p>paddling career? What was this?</p> <p>What was its effect?</p> | | <ul style="list-style-type: none"> revisit when exploring coaching philosophy |
| <p>Section 2 – Self profiling</p> | | |
| <p>What do you feel are the key skills needed to fulfil your role?</p> | <ul style="list-style-type: none"> Do you Plan? If so how? Decision making? How? Communication? Interpersonal skills Role of personal ability within your coaching | <ul style="list-style-type: none"> Their perceptions of what key skills and personal attributes they see as essential to fulfil their coaching role as they have described it |
| <p>What about personal attributes that help this happen?</p> | <ul style="list-style-type: none"> Creativity? Empathy Motivational? Confidence? | <ul style="list-style-type: none"> How does this compare with Schempp (2010) behaviours? |
| <p>Where did these develop?</p> | <ul style="list-style-type: none"> Self-awareness? Reflection? Knowledge development | <ul style="list-style-type: none"> Would they describe themselves as reflective practitioners? |
| <p>Role of coach Education in you development?</p> | <ul style="list-style-type: none"> What and how? If not then where and how? | <ul style="list-style-type: none"> Capture their view of formal Coach Education |
| <p>Any mentors or pivotal individuals?</p> | <ul style="list-style-type: none"> Positive or negative? Why and to what effect? | |
| <p>Has working with others impacted you development? Is so how?</p> | <ul style="list-style-type: none"> Mentors? Communities of practice? | <ul style="list-style-type: none"> Capture view of informal coach development |

| Section 3 – Personal Coaching | | |
|--|--|---|
| Philosophy | | |
| How would you describe your approach to coaching? | <ul style="list-style-type: none"> • Link with early experience • Link with wider experiences • Epistemological development • Is it always the same or does it differ? • If so how? | <ul style="list-style-type: none"> • Is there a link back to early experiences? |
| How does this manifest itself in your sessions? | <ul style="list-style-type: none"> • Reflective and self-analytical | |
| Why do you approach your coaching like this? | <ul style="list-style-type: none"> • Aware of epistemological beliefs? | <ul style="list-style-type: none"> • Are they consciously aware of their own philosophy? |
| Is it always successful? | <ul style="list-style-type: none"> • Role of reflection in your coaching? | |

1

2 *Table 3: Description of Role*

| Higher Order themes | Low Order themes | Raw data Code | Number of respondents | | | |
|----------------------------|-------------------------|--|------------------------------|----|----|-------|
| | | | PC | EC | VC | Total |
| <i>Description of Role</i> | | | | | | |
| Experiential | Journeying | Ocean as a coach PC3 | 3 | 3 | 0 | 6 |
| | Adventure | They learn from spending time on the ocean PC1 | 4 | 3 | 3 | 10 |

| | | | | | | |
|-------------------------|-----------------------|--|---|---|---|----|
| | Activity | Making a journey EC2 | 0 | 1 | 0 | 1 |
| | Experiential learning | Being 'here' and its impact EC5 | 0 | 5 | 0 | 5 |
| Performance development | Waterman | Respect from other beach users VC3 | 0 | 0 | 1 | 1 |
| | Skill development | Developing skills to 'do' something VC4 | 4 | 2 | 5 | 11 |
| | Individualisation | It's all about the individual PC1 | 6 | 0 | 5 | 11 |
| | Enabling independence | Self-teaching strategies for when I'm not there PC4 | 6 | 0 | 3 | 9 |

| | | | | | | |
|----------------------|--------------------------------|---|---|---|---|----|
| | Sport specific skills | Giving them the tools to go surfing VC5 | 5 | 2 | 5 | 12 |
| Personal development | Sharing responsibility | Working together EC6 | 0 | 1 | 0 | 1 |
| | Challenge | Adventure for the young people EC2 | 0 | 1 | 0 | 1 |
| | Creating independence | It's where the sport leads PC2 | 6 | 1 | 3 | 10 |
| | Achieve educational objectives | It's all about the educational objectives EC6 | 0 | 6 | 0 | 6 |
| | Empowerment | Negotiated goals PC6 | 2 | 2 | 1 | 5 |

1

2 *Table 4: Skills for Coaching*

| Higher Order themes | Low Order themes | Raw data Codes | Number of respondents | | | |
|---------------------|--|---|-----------------------|----|----|-------|
| Skills for Coaching | | | PC | EC | VC | Total |
| <i>Structure</i> | Clear objectives | allowing time for considered interactions EC1 | 0 | 4 | 1 | 5 |
| | High expectation of self and others | I set myself very high standards PC5 | 6 | 2 | 2 | 10 |
| | Commitment | You feel you ought to VC2 | 5 | 0 | 2 | 7 |
| Adaptive | Creativity | Coaching is not formulaic PC6 | 4 | 3 | 2 | 9 |
| | Personal Judgement and Decision Making | Create time to make decisions PC2 | 6 | 6 | 5 | 17 |
| | Observation and Analysis | Identifying how people what to learn PC 5 | 6 | 2 | 2 | 10 |

| | | | | | | |
|---|---|---|---|---|---|----|
| Interpersonal | Enthusiasm | It has to emanate from you EC1 | 0 | 4 | 2 | 6 |
| | Honesty | Honesty is an important part of coaching PC 1 | 2 | 0 | 1 | 3 |
| | Interpersonal skills | Reading and connecting with people PC5 | 5 | 6 | 5 | 16 |
| <i>Role of personal performance skills</i> | Comfort in the environment to cover safety | Safety is my biggest fear EC4 | 2 | 6 | 0 | 8 |
| | Extends tool kit of options and venues | Gives me more options EC4 | 0 | 6 | 0 | 6 |
| | Ability to demonstrate | To show where they're headed PC2 | 6 | 0 | 3 | 9 |
| | Informs decision making/fast track learning | Helps me to develop a great understanding | 6 | 6 | 3 | 15 |

| | | | | | | |
|--|------------------------------------|------------------------------------|---|---|---|---|
| | | of their performance PC1 | | | | |
| | Enhances technical understanding | Modelling their performance PC5 | 5 | 0 | 2 | 7 |
| | Confidence in coaching | I 'need' to be able to perform PC1 | 5 | 0 | 1 | 6 |
| | Maintaining passion for the sports | Staying motivated to paddle PC2 | 2 | 0 | 0 | 2 |
| | Respect from athletes | I can 'walk the walk' VC5 | 6 | 0 | 1 | 7 |

1

2 *Table 5: Development of coaching skill set*

| Higher Order themes | Low Order themes | Raw data Codes | Number of respondents | | | |
|------------------------------|------------------------------|--------------------------------------|-----------------------|----|----|-------|
| | | | PC | EC | VC | Total |
| Development of Skills | | | | | | |
| <i>Motivation</i> | Motivation to start paddling | Always like to try something new PC5 | 3 | 1 | 1 | 5 |

| | | | | | | |
|--|------------------------------|--|---|---|---|----|
| | | Adventure/being in the outdoors EC4 | 4 | 4 | 3 | 11 |
| | | Necessity to work in the outdoor sector EC6 | 0 | 4 | 0 | 4 |
| | | Lack of engagement with traditional sports PC2 | 4 | 4 | 2 | 10 |
| | | Taken by parents/youth group EC6 | 2 | 1 | 1 | 4 |
| | Motivation to start coaching | Necessity (club needed coaches) | 0 | 0 | 3 | 3 |
| | | Natural progression of club membership VC5 | 1 | 1 | 1 | 3 |
| | | As a career pathway EC1 | 4 | 5 | 1 | 10 |

| | | | | | | |
|-----------------------------------|--------------------------------------|--|---|---|---|----|
| | Self-motivated to constantly improve | I put a lot of pressure on me to be good PC5 | 4 | 1 | 2 | 2 |
| <i>Formal/Mediated</i> | Coach education | Not until later did I appreciate it PC1 | 2 | 1 | 3 | 6 |
| | Mentor | He was a good communicator VC2 | 2 | 2 | 3 | 7 |
| | Communities of practice | Keeps you striving to get better EC3 | 5 | 6 | 4 | 15 |
| <i>Reflective practice</i> | Learning through doing | I beat myself up if it does go how I wanted it to. PC5 | 6 | 6 | 5 | 17 |
| | Reflection | Am I being effective? PC6 | 6 | 6 | 5 | 17 |
| | Tacit knowledge or personality | I've always been good with people PC3 | 2 | 0 | 0 | 2 |

1

2