CONSTRUCTING OF A COMPETITION COMMUNICATION SKILLS SCALE FOR THE ELITE AND FIRST DIVISION HANDBALL LEAGUE COACHES

Fouad Muttib Hussain*

College of Physical Education and Sport Sciences, University of Baghdad, Iraq

Abstract

The objective of the research is to construct a competition communication skills (CCS) scale for the Elite and First Division Handball League coaches. The limits of the research community were the Handball players of the Elite and First Division clubs, which numbered 346 players, with a sample of 294 players was used. Fifty items were formulated; with 10 positive items for each field. A five-graded scale was adopted to collect and analyze the players' responses. The alternatives responses were: always, often, sometimes, rarely, and never, respectively. The exploratory experiment was conducted, and its characteristics (honesty, reliability, and objectivity) were achieved. The scale was presented to a committee consisting of 11 experts to ensure the validity of the paragraphs, and their measurements of the CCS. In order to obtain the discriminatory power, 27% of the highest and 27% of the lowest questionnaires of the scale were distributed into four fields. The study concluded that the CCS scale is an appropriate method to measure the CCS of the Elite and First Division Handball League coaches.

Keywords: Sport psychology, Competition communication skills, Handball coaches

Introduction

Leadership is one of the important processes that need the right decisions to achieve the goals planned by officials. Communication is a social process through which the interaction takes place between two parties, the first is the sender, and the second is the role of the receiver. The message sent carries meanings that have been understood or agreed upon in advance. Communication is a process by which information, meanings and ideas are transferred from one person to another person or others to achieve the set goals. The sender cannot send a message without implying a purpose or reason (Muhammed and Mahdi, 1993). They have stated that the communication process of a group, whatever its activity, should takes place between its sections and its members. Communication is divided into two parts, verbal and non-verbal, which is vital for different groups. Through communication, experiences can be gained, information communicated, and points of view among the various members of society. Studies have shown that only 7%-10% of our communication voice, body language, and the way emotions are shown (Bakkar, 2012). Communication carries the meanings of influence and affected, and it seems clear in the sports field. The psychological aspect plays an important

Manuscrito recibido: 02/03/2023 Manuscrito aceptado: 16/03/2023

*Corresponding Author: Fouad Muttib Hussain, College of Physical Education and Sport Sciences, University of Baghdad, Iraq

Correo-e: fouad.hussein@cope.uobaghdad.edu.iq

role in the personality of the coach (Tiba and Nidaa, 2021) pointed that the emotion serves the technical performance during training or the match The coach sends his message to influence the emotion and behavior of the team to achieve the goal, and at the same time the coach is affected by the needs and interests of the players. Handball is one of the collective games in which the performance of the players during the competition is affected by many psychological variables, including communication skills, which is based on the quality of the relationship that brings together the coach and the players. The coach is the communication center in the training process. The best way to deal with players requires behavior based on accumulated experience, which will determine how the player receives the guidance sent by the coach. Accumulated experience, as well as choosing the correct method of leadership style, is what is required for the success of the interaction process, which will reflect positively on the players' application of offensive and defensive tactics during the match. It shows us the importance of communication and the importance of knowing the coache's possession of communication skills. He is usually the center of attention in the team. As he is the person who sets the team's goals and plans for its actions and the players to implement them (Abdul Bari and others, 1994). Hence the importance of the research stems from the fact that a measure of communication skills will be built during the competition for elite and first division handball league coaches.

Methods

A descriptive approach was adopted to establish the proposed scale. Algabri and Jwad (2021) indicate that the descriptive approach is one of the forms of organized scientific analysis of interpretation to describe a specific phenomenon or problem and depict it quantitatively by collecting data and standardized information.

Participants

The research sample consisted of 294 players were chosen in accordance with the intentional selection method. This number represents 84.97 percent of the total number of players in the elite and first division handball league clubs in Iraq (346) as shown in table 1 (Table 1).

Scale procedures

This study was formulated to include 50 items, 10 items for each field, and

adopted a four-graded scale to measure the responses of the players, the alternative response were (always, often, sometimes, rarely, never) and

Table	1:	Shows	samples	and	their	numbers	in	experimental	test	and
constr	ucti	ng samp	oles.							

Samples	Numbers	experimental tests	Constructing sample
Al-shurta	16	-	14
Al-karkh	15	-	13
Karbalaa	15	2	13
Al-kufa	16	-	12
Aljaish	13	2	11
Al-hashd Alshaabi	15	2	13
Al-musaiab	16	-	14
Diyala	16	-	12
Baladiat Al-basra	15	-	14
Al-khalij arabi	15	2	13
Al-kut	15	-	12
Al-taaoun	16	-	15
Al-futua	15	-	14
Naft Maysan	14	-	14
Al-nasria	14	-	14
Uruk	12	-	14
Al-zubair	13	-	12
Tuz	15	-	12
Al-iskan	14	-	12
Arbil	13	-	10
Al-husain	12	-	10
Al-fusfat	15	-	9
Salah aldin	14	-	9
Al-sada	12	-	8

relevant weights respectively were (1, 2, 3, 4, 5) (Likert, 1931). The Likert method of measurement was used for the following reasons:

• It is an easy and highly stable method that accurately determines the degree of attitude of the responding individual towards the problem (Zidan,1965).

• Characterized by easy correction and construction, and due to the large number of response alternatives, the answer is accurate (Jaber 1976).

All the scale's items of were positive.

Validity

Validity is one of the most important psychometric characteristics and basic indicators for any measuring tool or testing of a specific subject, to confirm if the scale has well achieved the purpose for which it was developed and to measure the trait that was prepared to measure and without affected by other variables (Mustafa and others, 2000).

The scale was presented to a committee consisting of 11 specialized experts to ensure the validity of the paragraphs and their measurement of CCS. Some paragraphs were excluded, others were amended. The paragraphs that obtained the approval of 8 experts or more were kept. 5 paragraphs were excluded, and the total items of the scale were 45 items as shown in table 2 (Table 2).

Discriminatory Power

Discriminatory Power (DP) is the ability of a scale to differentiate significantly between categorical scale responses i.e. the ability to differentiate between

individuals who get high or low scores on the same scale. The Internal Consistency refers to the extent of homogeneity of the paragraphs in their measurement of the trait (Amatnius, 1996). In order to obtain the DP of the response, the data from the scale, which amounted to 294 questionnaires were emptied. The scores' of responses were arranged in a descending order, 27% of the construction scale sample was extracted from each of the highest and lowest construction samples. The t-test for independent samples was used to test the extracted values of the discrimination coefficients for CCS scale. The final number of paragraphs of the scale was 40 for each of the four fields of the scale as shown in table 3 (Table 3).

Internal Consistency

Internal consistency coefficient was used to analyze the expressions of the scale and ensure the consistency of its paragraphs. Whenever the correlation coefficient is high between the score of each paragraph and the total score of the scale, this is an evidence of the availability of internal consistency (Farahat, 2001). The correlation coefficient was calculated by using Pearson correlation coefficient (r). If the correlation coefficient rises, it indicates the a scale of consistency. The validity of the scale increases by excluding the items with poor correlation with the total score of the field. The statistically significant (P<0.05) results of the 40 paragraphs confirmed the appropriateness and internal consistency of the scale. It has also been found that there was a significant (P<0.05) correlation between the score of each paragraph and the total score of the field (Table 4).

Pearson correlation coefficient was calculated to determine the correlation between the score of each field and the total score of the scale to ensure that the scale is more comprehensive, as shown in table 5 (Table 5).

Table 2: Shows the paragraphs numbers of the CCS scale and their validity.

Paragraph	Para. number	number Agreement		Non agreement		
		Freq.	Ratio%	Freq.	Ratio%	
1	4,6,9,10,12,14,15,16,17,21,22,23,24,27,29,23,37,39,41,43,45,48,49	11	100%	0	0%	
2	1,3,5,7,13,20,25,30,31,34,35,40,44,47	10	90.9%	1	9. 09%	
3	2,11,19,26,28,33,36,38,42,50	9	81.18%	2	18.18%	
4	8, 15, 18, 26, 46	7	63.63%	5	45.45%	

Table 3: Shows discriminatory power of the competition communication skills field's items.

NO.	t- value	Correlation	No.	t- value	Correlation	NO.	t-value	Correlation
1	6.12	0.33	15	3.76	0.35	29	8.12	0.46
2	4.12	0.38	16	3.76	0.41	30	11.2	0.33
3	3.11	0.33	17	3.34	0.34	31	4.22	0.41
4	3.28	0.32	18	2.44	0.33	32	4.37	0.34
5	3.88	0.21	19	2.77	0.25	33	3.22	0.28
6	6.50	0.36	20	4.21	0.28	34	7.31	0.29
7	5.12	0.33	21	5.21	0.35	35	4.64	0.37
8	7.15	0.29	22	2.33	0.22	36	4.67	0.44
9	3.9	0.26	23	4.65	0.26	37	12.5	0.35
10	3.78	0.36	24	4.32	0.36	38	12.4	0.23
11	3.9	0.26	25	5.22	0.35	39	3.90	0.33
12	6.50	0.34	26	3.18	0.38	40	2.35	0.42
13	7.22	0.35	27	3.71	0.35			
14	11.2	0.35	28	4.34	0.36			

Table 4: Shows the correlation coefficients between the score of each paragraph and the total score of the field.

Paragraph	Listening skills	Para.	Emotional Management	Para.	Speaking skills	Para.	Ability to understand others
1	0.424	11	0.33	21	0.58	31	0.45
2	0.35	12	0,34	22	0,36	32	0.57
3	0.46	13	0.49	23	0.41	33	0.47
4	0.46	14	0.47	24	0.39	34	0.42
5	0.46	15	0.32	25	0.33	35	0.42
6	0.40	16	0.39	26	0.43	36	0.48
7	0.48	17	0.34	27	0.42	37	0.40
8	0.54	18	0.35	28	0.44	38	0.44
9	0.43	19	0.40	29	0.42	39	0.45
10	0.53	20	0.47	30	0.49	40	0.38

Table 5: Shows the correlation coefficients between the total score of the CCS scale and its each of the four fields.

Fields	Listening skills	Emotional Management	Speaking skills	Ability to understand others
Correlation coefficient	0.79	0.76	0.85	0.83

Table 6: Shows the reliability coefficients of the four fields of CCS scales by test and retest method.

Fields	Listening skills	Emotional Management	Speaking skills	Ability to understand others	
Reliability coefficient	0.81	0.79	0.82	0.81	

Table 7: Shows reliability coefficients for the four fields of the CCS scale using Cronbach's alpha reliability test.

Fields	Listening skills	Emotional Management	Speaking skills	Ability to understand others
Reliability coefficient	0.79	0.82	0.80	0.79

Reliability

The reliability coefficient was calculated 13 days after the first application by using the test-retest method (J. Blanchard and S. Brown 1998). The reliability coefficient in this method gives the reliability of the results provided by the scale during a specific period of time, and its value was 0.81, which is statistically significant at the level (P< 0.05), as shown in table 6 (Table 6).

The reliability was also confirmed by calculating the reliability coefficient using the Cronbach's alpha formula (Gliem and Gliem, 2003) for the fields. Nunnly (1978) indicated that the Cronbach's alpha coefficient provides an acceptable estimate of the reliability of the scale, and the reliability coefficients that range between 0.50 - 0.60 are considered acceptable. It has also been stated that it is an indicator of equivalence as it gives a good estimated value for the coefficient of equivalence, in addition to the internal consistency or homogeneity (Hussein and Fouad 2021). The reliability coefficient of the fields ranged between 0.79 - 0.82. The total score for all items was 0.81. These results were considered all acceptable as shown in table 7 (Table 7).

Conclusions

This study has been concluded that:

• Construction of the scale is suitable for measuring CCS of Elite and First Division Handball League coaches.

• The four fields were well represented to measure CCS of Elite and First Division Handball League coaches.

• Likert alternative answers were suitable for the sample to choose answers.

• Cronbach's alpha reliability test was appropriate to extract the reliability coefficient.

• The number of paragraphs were appropriate and easy when applied to get the response to the questionnaires regarding the scale.

• The 40 paragraphs of the constructed scale were appropriate for the response time.

References

- Abdul Bari, D. and others (1994): Modern Management: Concepts and Operations: An Analytical Scientific Approach, 1st ed, Amman, Arab Center for Student Services. p: 443.
- Amatnius, M. (1996): Measurement and Evaluation in Modern Education, Damascus. Damascus University Publications. P:196.
- Algabri, M. and Jwad , Z. (2021): Building and codifying the measure of decision-making for the leaders of the Olympic Sports Federations from the workers' point of view, Journal of Physical Education, Volume (33): Issue (1). p: 54 . https://doi.org/10.37359/JOPE.V33 (1) 2021.1117
- Bakkar, Y. A. (2012): Power is in Your Hands, How to Develop your Emotional Intelligence, Riyadh, Al-Obeikat Publishing.
- Blanchard J.J. and Brown S. B. (eds) (1998) in Comprehensive Clinical Psychology, Pergamon Elsevier Science Ltd; 1st edition.
- Farahat L. A., (2001). Mathematical Cognitive Measurement, Al-Kitab Center for Publishing, Cairo. p:68.
- Gliem J.A and Gliem R. R. (2003): Calculating, Interpreting, and Reporting Cronbach's Alpha Reliability Coefficient for Likert-Type Scale. Midwest Research-to-Practice Conference in Adult, Continuing, and Community Education, The Ohio State University, Columbus, OH, October 8-10.
- Hussein, A.,K., and Fouad., M , (2021): The Importance of Administrative Committees in Training Course Preparation in Iraqi Handball Coaches, HVol.33, No.4. https://doi.org/10.37359/JOPE.V33(4) 2021.1208.
- Jaber, A. H., (1976): An Introduction to the Study of Human Behavior, Cairo, Dar Al-Nahda Al-Arabiya.
- Likert, R. (1931). A technique for the measurement of attitudes. Archives of Psychology. New York: Columbia University Press.
- Muhammed Q. A. and Mahdi H., Z. (1993): Modern Concepts in Management: Theories and Functions, 3rd ed., Amman, The National Library, pp: 209.

	Phrases	Always	Often	Sometimes	Rarely	Never
1	The coach deals flexibly with the failure of offensive or defensive					
-	plans and tries to find solutions.					
2	His instructions to the players are unaffected when the pressure					
	of the match increases.					
3	He does not show signs of frustration, despite his loss of control					
	over the events of the match.					
4	Not affected by the large number of match variables					
5	He has a holistic view and awareness of all events in every					
5	position of the game.					
6	He is preoccupied with sending his instructions and receiving the					
	events of the match in isolation from the rest of the influences.					
7	He explains his modifications during the team time-out verbally					
	and by using the portable blackboard.					
8	He provides concise and precise instructions for addressing the					
	gaps in his team's defense and attack.					
9	He sends instructions during the game in a timely manner.					
10	His choices are correct to change and choose the players and the					
	appropriate plans for the events of the match.					
11	His hand signals are clear to implement agreed tactics.					
12	He listens during the team time-out to experienced players,					
1.5	despite the short time.					
13	He makes careful decisions for players during the game.					
14	He is courageous in the face of strong teams.					
15	He is aware of all the events of the match and links them with his					
	accumulated experiences.					
16	He stays away from aggression with his players in all its forms.					
17	He has the ability to postpone his emotions during the events of					
	the match until the end.					
18	He is not provoked by the presence of specialized characters in					
	the game to follow the match.					
19	Referees calmly discuss any decision they consider unfair to their					
	team.					
20	He is calm when the team is ahead or behind by goal difference.					
21	He is not provoked by the presence of specialized characters in					
22	the game to watch the match.					
22	he considers unfair					
23	He avoids aggression with his players in all its forms					
24	His choices are correct to change and choose the players and the					
	appropriate tactics for the events of the match.					
25	He controls his emotions despite the many variables of the match.					
26	He is aware of all the events of the match and links them with his		1			
	accumulated experiences.					
27	He deals bravely in facing the strong teams.					
28	His decisions for the players during the game are careful.					
29	He is characterized by calmness when the team advances or					
	delays goals.					
30	He allows the use of two-way communication from coach to					
	player and player to coach.					
31	His instructions are very informative.					
32	He simplifies his instructions about the defensive and offensive					
	lactics		1	1	1	1

Appendix 1: The final scale of competition communication skills for Elite and First Division Handball League Coaches.

33	His body signals give the same meaning as his words.			
34	His messages tend to be short.			
35	Highly focused on player feedback.			
36	His message carries one meaning.			
37	His messages regarding defensive and offensive tactics are clear			
	at all times of the game.			
38	All players understand his words and instructions even in the			
	hardest moments of the game.			
39	He sends his instructions to the specified player and is not public			
	way.			
40	He uses his body movements to send his instructions.			