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Effectiveness of Training on Food Processing among Women in Haryana, India

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Authors' contributions

This work was carried out in collaboration between both authors. Both authors read and approved the final manuscript.

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ABSTRACT

The study was conducted in seven villages purposively selected namely Dhanakurd, Ramayan and Beer Hansi from Hansi-I block, Ludas and Patan from Hisar-II block, Sulakhni and Balawas from Hisar-I block. A training program regarding food processing was very useful among trainees, with maximum training effectiveness score of picking of seasonal vegetables (WMS 2.43), preservation of fruits and vegetables (WMS 2.26), milk and milk products (WMS 2.40) and baking (WMS 2.22). Regarding the coverage of training, it was found that content of the training was considered very well covered by most of the respondents (61.54%) followed by (31.73%) respondents who considered training content as of medium level. The methodology used in training programmed was considered very well by nearly half of the respondents irrespective of the type of training. The working environment was also rated as excellent and very good by (40.00%) of the respondents. Rest of the respondents (15.38%) considered the working environment as good. Majority of the respondents found training material as very much useful and practical sessions satisfactory. Nearly half of the respondents (52.88%) were ready to start training on food processing as an income generating activity.

Keywords: Food processing; rural women; utility; coverage; Haryana.

1. INTRODUCTION

Need-based training programme acts as a catalyst for increasing the motivational level of trainees who in turn try to put their sincere efforts to learn and gain maximally from the training programme. It can thus be assumed that training need identification acts as a foundation pillar of training and helps in prioritizing the training areas for a particular group of trainees.

Kumar et al. [1] reported that KVK organized a number of training to utilize the spare time of farmer, farm women, unemployed and unskilled rural youth. The KVK organized on an average of 128 trainings per years 1999-2006. Maximum vocational training is given on vermin-compost production followed by dairy, fruits and vegetable production and minimum on commercial cultivation of flowers, fruits and exotic vegetables. The outcome of training programme was shown that there is 14.7-36.8% increase in income after the adoption of training.

Venugopalan 1992 emphasized that considering women's involvement in wide range of activities it is evident that their production potentials can be realized only if women get the necessary training, technical (know – how) and support.

The improved food processing word is highly fragmented as it widely comprises of the subsegment like fruit and vegetables, milk and milk products, grain processing, meat and poultry, alcoholic beverages, packaged or convenience food and packaged drinks.

Das and Baruah [2] pointed out that the involvement of farm women in modernization of farming practices and village industries is absolutely essential. They provided training on squash and pickle preparation to make use of locally available fruits and vegetables.

Davi and Shaik [3] concluded that a profound training programme acts as a vehicle to enhance employee skill and enable them to perform better in their job. An effective training programme is one that addresses training needs and delivers training according to training objectives.

Sridhar et al. 2013 conducted a study to check the percentage change in the income level of the different trainees before and after training. It was found that there is about 86% gain in knowledge among the poultry farmers. The beneficiaries got hands-on experience during the training program and started backyard poultry in their respective villages. It was found that 63.4% of trainees got the improvement in the knowledge level of the food processing training. It was found that almost 58.55% increase in the knowledge and the work efficiency of the rural youth in gardening training which was sufficient for starting own business.

2. MATERIALS AND METHODS

Food processing training includes two trainings each in the processing of milk and milk products, pickling of seasonal vegetables and preservation of fruits and vegetable and one training on baking. Thus a total of seven pieces of training were conducted during 2008-2015. A total of 155 scheduled caste women were covered under the training on food processing. All the available beneficiaries covered under the trainings on food processing with at least 100 trainees were to be selected thus 104 respondents were available and formed the sample of the study. Training utility was measured by getting the response on three-point continuum i.e. very useful, useful and undecided with the score assigned as 3, 2, 1 respectively. A well-structured interview schedule was constructed for data collection. The collected data was quantified and interpreted by using suitable statistical tools such as frequency, mean score and rank.

3. RESULTS AND DISCUSSION

3.1 The Utility of Training on Pickling of Seasonal Vegetables

The data in Table 1 depicted that green chilli pickle was considered as highly useful with (2.43 WMS) and ranked 1stfollowed by lemon and green chilli pickle (2.25 WMS) ranked 2nd,and mixed vegetable pickle (2.15 WMS) ranked 3rd.

3.2 Utility of Training on Fruit and Vegetable of Preservation

The data in Table 2 depicted that green chilli pickle was considered as highly useful with (2.26 WMS) ranked 1st followed by lemon and green chilli pickle (2.22 WMS) ranked 2nd, mixed vegetable pickle (2.09 WMS) ranked 3rd, Tomato Sauce (2.06 WMS) ranked 4th, potato chips (1.99 WMS) ranked 5th and anola candy (1.78 WMS) ranked 6th.

Table 1. Utility of training on pickling of seasonal vegetables

Sr. no.	Pickles	Very useful (3)	Useful (2)	Undecided (1)	Over all utility / W.M.S	Total WMS	Rank		
1.	Lemon and green chilli	pickle							
	Ingredient	8	14	2	2.25				
	Method	9	11	4	2.20	2.25	II		
	Precaution	10	11	3	2.29				
2.	Green chilli pickle								
	Ingredient	13	11	-	2.54				
	Method	9	14	1	2.33	2.43	1		
	Precaution	12	10	2	2.41				
3.	Mixed vegetable pickle								
	Ingredient	9	12	3	2.25				
	Method	7	13	4	2.08	2.15	Ш		
	Precaution	6	15	3	2.12				

Table 2. Utility of training on fruit and vegetable preservation

Sr.	Products	Very	Useful	Undecided	Over all	Total	Rank
no		useful	(2)	(1)	utility/	WMS	
		(3)			W.M.S		
1.	Lemon and green chilli pick	de					
	Ingredient	16	21	3	2.32		
	Method	15	20	5	2.25	2.22	П
	Precaution	11	22	7	2.1		
2.	Green chili pickle						
	Ingredient	14	24	2	2.3		
	Method	12	25	3	2.22	2.26	
	Precaution	11	28	1	2.25		
3.	Mixed vegetable pickle						
	Ingredient	10	27	3	2.2		
	Method	11	25	4	2.17	2.09	Ш
	Precaution	8	21	11	1.92		
4.	Tomato sauce						
	Ingredient	12	19	9	2.07		
	Method	14	16	10	2.1	2.06	IV
	Precaution	9	23	8	2.02		
5.	Anola candy						
	Ingredient	8	23	9	1.97		
	Method	11	19	10	2.02	1.78	VI
	Precaution	7	10	13	1.35		
6.	Potato chips						
	Ingredient	11	24	5	2.15		
	Method	9	21	10	1.97	1.99	V
	Precaution	6	22	12	1.85		

3.3 Utility of Training on the Processing of Milk and Milk Products

The data in Table 3 indicated that production & preservation of paneer was considered as highly useful with (2.40WMS) ranked $1^{\rm st}$ followed by sweet lassi (2.32 WMS) ranked $2^{\rm nd}$, flavoured milk (2.22 WMS) ranked $3^{\rm rd}$, burfi (2.1 WMS) ranked $4^{\rm th}$, chhana (2.08 WMS)

ranked 5th& production & preservation of cream (1.93WMS) ranked 6th.

3.4 Utility of Training on Baking

The result in Table 4 revealed that making of chocolate cake was considered as highly useful with (2.22WMS) ranked 1st followed by eggless cake (1.93 WMS)

ranked $2^{\rm nd}$ and kaju biscuits (1.78 WMS) ranked $3^{\rm rd}$.

3.5 Coverage of Training

The coverage of training was seen in terms of coverage of subject matter, methodology used, and working environment, the usefulness of training material, practical sessions and opinion

about income generation. It can be seen from the Table-5 that content of the training was considered very well covered by most of the respondents (61.54%) followed by (31.73%) respondents who considered training content as of medium level. The methodology used in the training programme was considered very good by nearly half of the respondents irrespective of the type of training. The working environment

Table 3. Utility of training on processing of milk and milk products

Sr. no.	Processing of milk and milk products	Very useful (3)	Useful (2)	Undecided (1)	Over all utility /W.M.S	Total WMS	Rank
1.	Paneer						
	Ingredient	11	9	-	2.55		
	Method	8	12	-	2.4	2.40	1
	Precaution	7	11	2	2.25		
2.	Sweet lassi						
	Ingredient	7	12	1	2.3		
	Method	9	10	1	2.4	2.32	II
	Precaution	7	11	2	2.25		
3.	Burfi						
	Ingredient	6	9	5	2.05		
	Method	7	8	5	2.1	2.1	IV
	Precaution	5	13	2	2.15		
4.	Chhana						
	Ingredient	6	11	3	2.15		
	Method	4	12	4	2.0	2.08	V
	Precaution	5	12	3	2.1		
5.	Flavored milk						
	Ingredient	8	10	2	2.3		
	Method	5	12	3	2.1	2.22	Ш
	Precaution	6	13	1	2.25		
6.	Cream						
	Ingredient	4	11	5	1.95		
	Method	4	9	7	1.85	1.93	VI
	Precaution	5	10	5	2.00		

Table 4. Utility of training on baking

Sr. no.	Baking products	Very useful (3)	Useful (2)	Undecided (1)	Over all utility/ W.M.S	Total WMS	Rank
1	Kaju biscuits						
	Ingredient	3	9	8	1.75		
	Method	2	8	10	1.6	1.78	Ш
	Precaution	5	10	5	2.0		
2.	Chocolate cake						
	Ingredient	8	10	2	2.3		
	Method	5	12	3	2.1	2.22	1
	Precaution	6	13	1	2.25		
3.	Eggless cake						
	Ingredient	5	9	6	1.95		
	Method	3	10	7	1.8	1.93	II
	Precaution	4	13	3	2.05		

Table 5. Opinion of respondents about coverage of the training programme

Well covered Medium covered Medium covered G(25.0) 28(70.00 7(35.0) 11(55.0) 64(61.54) 2.55 Medium covered Ordinary c	Sr. no.	Dimension	Pickling of seasonal vegetables	Fruit and vegetable preservation	Baking	Processing of milk and milk product	Total	W.M.S		
Well covered Medium covered Medium covered G(25.0) 28(70.00 7(35.0) 11(55.0) 64(61.54) 2.55 Medium covered Ordinary c			n=24	n=40	n=20	n=20	n=104			
Medium covered 6(25.0) 10(25.0) 9(45.0) 8(40.0) 33(31.73) 7(6.73)	1.	Content								
Ordinary covered - 2(5.0) 4(20.0) 1(5.0) 7(6.73) 2. The methodology used in the training programme Very good 14(58.3) 16(40.0) 10(50.0) 11(55.0) 51(49.04) Good 9(37.5) 21(52.5) 8(40.0) 9(45.0) 47(45.19) 2.43 Not good 1(4.2) 3(7.5) 2(10.0) - 6(5.76) 3. Working environment Excellent 11(45.83) 15(37.5) 10(50.0) 9(45.0) 45(43.27) Very good 9(37.5) 20(50.0) 7(35.0) 7(35.0) 43(41.35) 2.27 Good 4(16.7) 5(12.5) 3(15.0) 4(20.0) 16(15.38) 4. Usefulness of training material Very much useful 19(79.2) 25(62.5) 10(50.0) 12(60.0) 66(63.46) Useful 5(20.8) 12(30.0) 8(40.0) 8(40.0) 33(31.73) 2.58 Not at all useful - 3(7.5) 2(10.0) - 5(4.80) 5. Practical session in training programme Satisfac		Well covered	18(75.0)	28(70.00	7(35.0)	11(55.0)	64(61.54)	2.55		
2. The methodology used in the training programme		Medium covered	6(25.0)	10(25.0)	9(45.0)	8(40.0)	33(31.73)			
Very good 14(58.3) 16(40.0) 10(50.0) 11(55.0) 51(49.04) Good 9(37.5) 21(52.5) 8(40.0) 9(45.0) 47(45.19) 2.43 Not good 1(4.2) 3(7.5) 2(10.0) - 6(5.76) 3. Working environment Excellent 11(45.83) 15(37.5) 10(50.0) 9(45.0) 45(43.27) Very good 9(37.5) 20(50.0) 7(35.0) 7(35.0) 43(41.35) 2.27 Good 4(16.7) 5(12.5) 3(15.0) 4(20.0) 16(15.38) 4. Usefulness of training material Very much useful 19(79.2) 25(62.5) 10(50.0) 12(60.0) 66(63.46) Useful 5(20.8) 12(30.0) 8(40.0) 8(40.0) 33(31.73) 2.58 Not at all useful - 3(7.5) 2(10.0) - 5(4.80) 5. Practical session in training programme Satisfactory 16(66.7) 25(62.5) 12(60.0) 14(70.0) 67(64.42) Somewhat		Ordinary covered	-	2(5.0)	4(20.0)	1(5.0)	7(6.73)			
Good 9(37.5) 21(52.5) 8(40.0) 9(45.0) 47(45.19) 2.43 Not good 1(4.2) 3(7.5) 2(10.0) - 6(5.76) 3. Working environment Excellent 11(45.83) 15(37.5) 10(50.0) 9(45.0) 45(43.27) Very good 9(37.5) 20(50.0) 7(35.0) 7(35.0) 43(41.35) 2.27 Good 4(16.7) 5(12.5) 3(15.0) 4(20.0) 16(15.38) 4. Usefulness of training material Very much useful 19(79.2) 25(62.5) 10(50.0) 12(60.0) 66(63.46) Useful 5(20.8) 12(30.0) 8(40.0) 8(40.0) 33(31.73) 2.58 Not at all useful - 3(7.5) 2(10.0) - 5(4.80) 5. Practical session in training programme Satisfactory 16(66.7) 25(62.5) 12(60.0) 14(70.0) 67(64.42) Somewhat 6(25.0) 9(22.5) 5(25.0) 4(20.0) 24(23.07) 2.51 satisfactory Not satisfactory 2(8.3) 6(15.0) 3(15.0) 2(10.0) 13(12.5) 6. Opinion about starting income generating activity Yes 13(54.2) 21(52.5) 8(40.0) 13(65.0) 55(52.88)	2.	The methodology	used in the t	raining progra	mme					
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3. Working environment Excellent 11(45.83) 15(37.5) 10(50.0) 9(45.0) 45(43.27) Very good 9(37.5) 20(50.0) 7(35.0) 7(35.0) 43(41.35) 2.27 Good 4(16.7) 5(12.5) 3(15.0) 4(20.0) 16(15.38) 4. Usefulness of training material Very much useful 19(79.2) 25(62.5) 10(50.0) 12(60.0) 66(63.46) Useful 5(20.8) 12(30.0) 8(40.0) 8(40.0) 33(31.73) 2.58 Not at all useful - 3(7.5) 2(10.0) - 5(4.80) 5. Practical session in training programme Satisfactory 16(66.7) 25(62.5) 12(60.0) 14(70.0) 67(64.42) Somewhat 6(25.0) 9(22.5) 5(25.0) 4(20.0) 24(23.07) 2.51 satisfactory Not satisfactory 2(8.3) 6(15.0) 3(15.0) 2(10.0) 13(12.5) 6. Opinion about starting income generating activity Yes 13(54.2) 21(52.5) 8(40.0) 13(65.0) 55(52.88)		Good	9(37.5)	21(52.5)	8(40.0)	9(45.0)	47(45.19)	2.43		
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Very good 9(37.5) 20(50.0) 7(35.0) 7(35.0) 43(41.35) 2.27 Good 4(16.7) 5(12.5) 3(15.0) 4(20.0) 16(15.38) 4. Usefulness of training material Very much useful 19(79.2) 25(62.5) 10(50.0) 12(60.0) 66(63.46) Useful 5(20.8) 12(30.0) 8(40.0) 8(40.0) 33(31.73) 2.58 Not at all useful - 3(7.5) 2(10.0) - 5(4.80) 5. Practical session in training programme Satisfactory 16(66.7) 25(62.5) 12(60.0) 14(70.0) 67(64.42) Somewhat 6(25.0) 9(22.5) 5(25.0) 4(20.0) 24(23.07) 2.51 satisfactory 2(8.3) 6(15.0) 3(15.0) 2(10.0) 13(12.5) 6. Opinion about starting income generating activity Yes 13(54.2) 21(52.5) 8(40.0) 13(65.0) 55(52.88)	3.									
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Very much useful 19(79.2) 25(62.5) 10(50.0) 12(60.0) 66(63.46) Useful 5(20.8) 12(30.0) 8(40.0) 8(40.0) 33(31.73) 2.58 Not at all useful - 3(7.5) 2(10.0) - 5(4.80) 5. Practical session in training programme Satisfactory 16(66.7) 25(62.5) 12(60.0) 14(70.0) 67(64.42) Somewhat 6(25.0) 9(22.5) 5(25.0) 4(20.0) 24(23.07) 2.51 satisfactory Not satisfactory 2(8.3) 6(15.0) 3(15.0) 2(10.0) 13(12.5) 6. Opinion about starting income generating activity Yes 13(54.2) 21(52.5) 8(40.0) 13(65.0) 55(52.88)		Good	4(16.7)	5(12.5)	3(15.0)	4(20.0)	16(15.38)			
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Somewhat 6(25.0) 9(22.5) 5(25.0) 4(20.0) 24(23.07) 2.51 satisfactory Not satisfactory 2(8.3) 6(15.0) 3(15.0) 2(10.0) 13(12.5) 6. Opinion about starting income generating activity Yes 13(54.2) 21(52.5) 8(40.0) 13(65.0) 55(52.88)	5.	Practical session	in training pr	ogramme						
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satisfactory Not satisfactory 2(8.3) 6(15.0) 3(15.0) 2(10.0) 13(12.5) 6. Opinion about starting income generating activity Yes 13(54.2) 21(52.5) 8(40.0) 13(65.0) 55(52.88)								2.51		
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Yes 13(54.2) 21(52.5) 8(40.0) 13(65.0) 55(52.88)	6.									
						13(65.0)	55(52.88)			
		No	11(45.Ŕ)	19(47.5)	12(60.0)		49(47.11)	1.52		

Figures in parentheses indicate percentages (%).

was also rated as excellent and very good by (40.00%) of the respondents. Rest of the respondents (15.38%) considered the working environment as good. Majority of the respondents found training material as very much useful and practical sessions satisfactory. Nearly half of the respondents (52.88%) were ready to start training on food processing as an income generating activity.

Thus it may be inferred that majority of the respondents were fully satisfied with the training material with (2.58 WMS) followed by coverage of the content (2.55 WMS), a practical session in training programme and methodology used in training programme.

4. CONCLUSION

A training program regarding maximum training effectiveness score of picking of seasonal vegetables, preservation of fruits, milk and milk products and baking. Training on green chilli pickle, lemon and green chilli pickle, production

and processing of paneer, sweet lassi and the chocolate cake was rated as highly useful by the respondents. Regarding the coverage of training, it was found that content of the training was considered very well covered by most of the respondents followed by respondents who considered training content as of medium level. Working environment was also rated as excellent and very well by the respondents. Rest of the respondents considered the working environment as good. Majority of the respondents found training material as very much useful and practical sessions satisfactory. Nearly half of the respondents were ready to start training on food processing as an income generating activity. These findings are supported by Desai (1996) and Akansha [4]. They also found that training programmes were very useful to trainees.

5. RECOMMENDATIONS

 Most of the respondents were poorly satisfied with the duration of training for all the training programmes, therefore the duration of the training should be increased but the training hours should be reduced so that the respondents may learn the skill sufficiently as well as can take care of their family.

All the training are a feasible enterprise and very much suitable for rural SC women to practice and empower them economically and socially. So the NGOs, extension agencies should enhance the capacity of SC rural women by organizing them into self help groups and providing the necessary training and support in these areas so that they can start own income activity. Most generating of respondents were unaware of provision of bank loan for starting various income-generating activities, therefore recommended to organize special training/ awareness campaign in the villages.

CONSENT

As per international standard written participant consent has been collected and preserved by the authors.

COMPETING INTERESTS

Authors have declared that no competing interests exist.

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