NATIONAL NUTRITION-SENSITIVE AGRICULTURE TRAINING FOR DEVELOPMENT AGENTS

Facilitator's Guide

November 2017

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Contents

ACKNOWLEDGMENT	II
INTRODUCTION	1
Course Syllabus	2
COURSE SCHEDULE:	4
Course Outline	6
CHAPTER ONE: BASICS OF HUMAN NUTRITION	7
CHAPTER TWO: AGRICULTURE-NUTRITION LINKAGE	8
CHAPTER THREE. CROPS, ANIMAL SOURCE FOODS AND NUTRITION	9
CHAPTER FOUR. INTERVENTION APPROACHES FOR IMPROVED NUTRITION	10
CHAPTER FIVE: WASH AND NUTRITION	11
CHAPTER SIX: GENDER AND NUTRITION	11
CHAPTER SEVEN. AGRICULTURE-NUTRITION SOCIAL BEHAVIOR CHANGE COMMUNICATION	12
CHAPTER EIGHT.MULTI-SECTORAL COORDINATION FOR NUTRITION	13
EXERCISE SHEETS	15
Exercise Sheet 1.1. Error! Bookmark	not defined.
Exercise Sheet 1.2. Error! Bookmark	not defined.
Exercise Sheet 2.1: Explain the inter-relationship between agriculture and nutrition	16
Exercise Sheet 2.2: Guiding principles and approaches of nutrition sensitive agriculture	·e17
Exercise Sheet 3.1: State nutritional implication of crop specialization and diversification	on18
Exercise Sheet 3.2: Animal management and health in relation to nutrition	18
Exercise Sheet 4.1:	20
Exercise sheet 4.2	20
Exercise Sheet 4.3	22
Exercise Sheet 5.1: key agriculture related WASH practices that helps to improve nuti	rition24

Exercise sheet 6.1: Bbasic concept of Gender	25
Exercise sheet 7.1:	25
Exercise Sheet 7. 2:	26
Exercise Sheet 8.1.	26
Exercise Sheet 8.2.	27
Annex I: Course Pre-Post Assessment question	29

INTRODUCTION

Agriculture is the major source of food, employment and income for the majority of Ethiopians. Families living in rural areas in particular derive means of their daily lives from direct involvement in agricultural activities. Understanding this, the government of Federal Democratic Republic of Ethiopia has developed a comprehensive Rural Development Policy and Strategy and implemented it through successive development plans for the past 15 years. Food and nutrition security have always been a challenge and are among the development targets of the five-year Second Growth and Transformation Plan GTP2. Hence, agricultural development does not only focus on increasing production but also creating access and means of improving food and nutrition security. The food that we eat needs to be in adequate quantities, safe and nutritionally diverse. In addition, there is also need to improve access to clean and safe water and health services together with women empowerment interventions.

Agriculture and nutrition are highly interrelated. Agricultural production provides the means to get food and the essential nutrients that people need. While on the other hand, as agriculture is highly labor intensive, agriculture requires well-nourished, healthy, and physically fit people. In order to improve nutritional outcomes, the agricultural strategy in Ethiopia takes on a nutrition-sensitive approach. The strategy guides planning and implementation of crop and livestock production, processing, marketing and consumption in order to address the prevailing malnutrition problem of the country.

Development agents (DAs) are at the forefront in implementing agricultural programs and supporting farmers to improve agricultural production and livelihood. Over the past five years, more than eight nutrition related DA training manuals have been prepared by various projects and development partners. None of these manuals have been endorsed due to lack of proper engagement of the MoANR and MoLF. MOANR and MOLF in collaboration with development partners developed a national harmonized nutrition sensitive agriculture training reference manual for development agents. This facilitator's guide is part of this package designed guide the trainers for effective delivery of the training.

Course Syllabus

Training Description

This five-day training is designed to equip development agents on basic concepts of human nutrition and the linkages of agriculture and nutrition, and how gender roles, water, sanitation and hygiene, behavior change communications, multi-sectoral coordination contribute to improved nutrition. The course will prepare DAs to effectively plan and implement NSA interventions with other relevant sectors.

Main Objective of the Training

At the completion of this training, the trainee will be able to plan and implement effective nutrition-sensitive agriculture interventions to improve household access to, and consumption of adequate, safe, and diversified foods.

Supporting Objectives

- 1. Apply basic concepts of human nutrition in achieving nutrition and food security to tackle the problem of malnutrition
- 2. Discuss the linkage between agriculture and nutrition
- 3. Demonstrate the production and consumption of variety of crops for better dietary diversification
- 4. Demonstrate the production and consumption of variety of animal source foods for better dietary diversification
- 5. Discuss WASH practices to improve nutrition
- 6. Discuss the concept of gender and the role of women in the family and society and its impact on nutrition
- 7. Apply behavior change approaches and skills related to agriculture-nutrition practices to the community
- 8. Apply multi-sectoral coordination for nutrition and role of DAs in coordinating implementation of nutrition sensitive agriculture.

Training participants

Participants of this training are development agents (crop, livestock, natural resource, irrigation, cooperative DAs, and Kebele agriculture office heads)

Training Logistics

- Duration and modality: This is a five day face-to-face training for DAs
- Venue: This course is best provided at Woreda Agriculture office/Research Centers with a nearby FTC

Training materials

- Training manual, facilitator's guide (syllabus, schedule, outline, session plan, learning instruments, PPTs), posters, pictures, videos/animations in a CD,
- Computer, LCD, flipchart, flipchart markers, scotch tape, sticker notes, stationaries
- Practical learning materials for skills demonstration

Training methods

- Interactive presentations
- Brainstorming and discussions
- Role plays and case studies
- Small and large group activities
- Experience sharing, reflections, debating
- Pictures and video shows
- Demonstration and guided practice
- Site visits FTC, crop farms, livestock& poultry farms, fishing ponds

Training Evaluation

- Daily evaluation (using daily evaluation format, verbal informal feedback)
- End-of-training evaluation (using evaluation format, verbal feedback/reflection)
- Outcome level evaluation post training assessment posttest assessment questions
- Post-training performance evaluation DAs on job performance
- Impact evaluation improvement in NSA practices in the community

Participant evaluation

- Pre and post training assessment
- Check understanding in the course of training conduct(Question and Answer Sessions, drills etc)

Key for schedule:

IP – Interactive presentation

- Demo – Demonstration

D – Discussion

- GP Guided practice
- SGA Small group activity (discussion, exercise) BS Brainstorming
- LGA Large group activity (discussion, exercise) R Reflection

- RP Role play
- CS Case study

COURSE SCHEDULE:

TIME	DAY 1	DAY 2	DAY 3	Day 4	Day 5
8:30- 10:30	120 Minutes Registration (30') Welcome and introduction (20') Participant expectations (15') Workshop goal, objectives& schedule (15') Group norm (10') Pre-course test—30'	120 Minutes Chapter 3: Crops, Animal Source Foods and Nutrition – 235 min Nutritional value of crops (IP and D) – 30' Nutritional implication of crop specialization and diversification (IP, D, and CS) –60' Explain the nutritional value of animal source foods – (IP, D, and SGA) – 30'	80 Minutes Chapter 4: Continued Intervention Approaches for improved nutrition	90 Minutes Chapter seven (continued) SBCC Approaches for Nutrition Sensitive Agriculture (IP, RP, D, SGA) -90'	120 Minutes Action plan Development (240') Action Plan from the training Participants 120'
		Health Brea	k		
10:50- 12:30	100 minutes Chapter 1: Basics of Human Nutrition – 190 min Definition of basic terms (IP &SGA)– 25' Food groups (IP) – 15' Dietary diversity (IP) – 20' Malnutrition and its different forms (IP and D) – 40'	95 minutes Chapter three (continued) Apply technologies to increase production and consumption of animal source foods (IP and D) – 50' Analyze local animal and animal products market for better food access IP and D) – 45	100 Minutes Chapter 5: Water, Sanitation and Hygiene and Nutrition – 90 min Effect of WASH on nutrition (IP, SGA) – (35') Key agriculture related WASH practices (IP, Video) – 35' Importance and effect of small scale irrigation practices on nutrition (IP, LGA) – (20')	Effective social behavior changes communication tools and job aids (IP, RP, D, SGA) – 90' (dietary diversity and WASH related behaviors) Review of day one activities (10 min)	120 minutes Action plan cont'd Action Plan from the training Participants 120'

12:30- 2:00	Lunch				
2:00 – 3:30	90 minutes Chapter one (continued) UNICEF malnutrition causal framework (IP) – 20' Short & Long term effects of malnutrition (IP and D) – 40' Magnitude of malnutrition in Ethiopia (IP) – 15' Food based approach (IP) – 15'	90 Minutes Chapter 4. Intervention Approaches for Improved Nutrition. (310 Minutes) Apply intervention approaches for improved nutrition (IP, D) –310'	120 Minutes Chapter 6: Gender and Nutrition – 120 min Basic concepts of gender (IP) – (30') Role of women and men in NSA (IP & D) – (45') Women empowerment to improved nutrition (IP& D) – (45')	120 Minutes Chapter 8: Multi-sectoral Coordination for Nutrition – 160 min NNP and multi-sectoral nature of nutrition (IP) – 35 Roles and responsibilities of various sectors for nutrition (IP) – 35 Roles and responsibilities of agriculture sector (IP & D) – 50'	Visit at FTC/research centers
3:30- 3:50		Health brea	k		
3:50-	100 minutes	100 Minutes	110 minutes		Visit at FTC/research
5:30	Chapter 2. Agriculture-Nutrition Linkage (90 min) Agriculture-nutrition interrelationship (IP and D) – 30' Agriculture-Nutrition impact pathways (IP&LGA) – 30' Guiding principles and approaches of NSA (IP&SGA) – 30'	Chapter 4 continued Apply intervention approaches for improved nutrition (IP, D) –310'	Chapter 7: Agriculture- Nutrition BCC –280 min Stages of behavior change (IP) –30' Specific KAP gap analysis in agriculture-nutrition (BS, SGA, R) – 70' Review of day one activities (10	100 minutes Chapter eight (continued) Role of DAs in NSA (IP, RP/debating) – 40' Way for ward/planning-30' Post-course test- 30'	<u>Closing</u>
	Review of day one activities (10 min)	Review of day one activities (10 min)	min)	Review of day one activities (10 min)	

Course Outline

The course out line is a guide for the trainers that helps them to align the Learning Objectives and key contents with the allocated time, the training method identified for that learning objective, and the resources material to be used for that session. The learning outcomes of each chapter are outlined below.

DAY ONE-MORNING SESSION (220 minutes)				
NG AND INTRODUCTION				
	Teaching / Learning Methods	Resource Materials		
Key Activities				
Registration and distribution of training	Place registration desk at the entrance and register participants as they come	Registration form		
materials	and enter the training hall	Name Tag		
		Pen		
Introductory Activity		Writing pads		
	to review the documents			
Opening	Welcome by facilitator/s	Flipchart: Welcome Message		
	Keynote speech by invited guest speaker: Brief introduction and objectives of	posted!		
	the training			
Participants introduction	Conduct brief introduction of participants and facilitators (use this format for	Flipchart that guides the		
	introduction: full name, position, work place, work experience and one thing	introduction of participants		
	you would like to accomplish in life) or use other modality suited to your			
	audience			
Identify participant expectations	Discuss participant expectations with the group and list them on a flipchart	Flipcharts and markers		
	Identify which will be met in the workshop			
Provide an overview of the training	Review the goals and objectives of the training and compare with participant	Objectives and expectation on		
course (objectives, modules and the	expectations	flip chart		
schedule) and set group norms	Set group norms. List on a flip chart and keep them posted throughout the	Training packages Training		
		schedule		
	Key Activities Registration and distribution of training materials Introductory Activity Opening Participants introduction Identify participant expectations Provide an overview of the training course (objectives, modules and the	Teaching / Learning Methods		

20	Activity: Pre-Test	Conduct pre-test assessment	Pre-test questionnaire
		While conducting the pre-test, a flip chart entitled 'Parking Lot' can be	Analysis sheet
		prepared and posted on the wall	Flipchart, marker

Health Break

CHAPTER ONE: BASICS OF HUMAN NUTRITION. (190 minutes)

Main Objective: at the end of this chapter trainees will be able to Apply basic concepts of human nutrition in achieving nutrition and food security to tackle the problem of malnutrition

Time (min)	Learning Objective	Key Content	Teaching / Learning Methods	Resource Materials/technology
5	Introduction	-Introduction of session objectives-Background information on nutrition in Ethiopia	Brain storming	
45	Describe basic concepts of Food, Meal, Diet, Nutrient, Human nutrition, Food security and Nutrition security	-Define basic nutrition terms	-Interactive presentation -Small group discussion	
15	Differentiate the six food groups	FAO six food groups classification	Interactive presentation	FAO food groups classification
25	Describe dietary diversity	Diet diversity (how to get a diversified diet)	Interactive presentation SDA: use Exercise sheet 1.1	
40	Discuss malnutrition and its different forms	-Definition of malnutrition -Forms of malnutrition	-Interactive presentation - Discussion	-Picture on types of malnutrition- Video on different forms of malnutrition

DAY ONE, AFTERNOON SESSION. (180 minutes)

Time	Learning Objective	Kev Content	Teaching / Learning Methods	Resource Material
		1225	1 0000111119 / 11111119 11111110	210000110011101

20	Mention causes of malnutrition	- UNICEF causal framework of malnutrition	-Interactive presentation	UNICEF malnutrition
				framework
30	Discuss the effects and impacts of	- Short term effect	-Interactive presentation	
	malnutrition on the community	- Long term effect	-Discussion	
30	Recognize the current magnitude of	-Current status of malnutrition in Ethiopia	-Interactive presentation	
	malnutrition nationally and by region		SDA: Use Exercise sheet 1.2	

CHAPTER TWO: AGRICULTURE-NUTRITION LINKAGE (90 minutes)

Main Objective: at the end of this chapter trainees will be able to discuss the linkage between agriculture and nutrition

Time	Learning Objective	Key Contents	Teaching/Learning Methods	Resource
(min)				Materials/Technology
5	Chapter introduction	Introduce chapter objectives	-Presentation	
			-Brain storming	
25	Explain the inter-relationship	-Agriculture- nutrition relationship	- Interactive presentation	Food and nutrition security
	between agriculture and nutrition.	-Food and Nutrition Security	- Discussion	framework gram
			Use Exercise 2.1	
30	Discuss the agriculture-nutrition	-Production for own consumption	- Interactive presentation	Ag-nut Pathways diagram
	impact pathways	-Income and lower food price	- Large group discussion	
		-Women empowerment	- Brainstorming: on how to relate	
			diagram 2.2.1 and 2.3.1	
30	Discus nutrition sensitive	-Define nutrition sensitive agriculture	- Interactive presentation	
	agriculture	-Principles and Concepts of nutrition	- Small groups discussion	
	Discuss the guiding principles	sensitive agriculture	-Use excises 2.2	
	and approaches of nutrition	-Key Guiding principles	Summarize the chapter and Self-	
	sensitive agriculture	-Approaches for NSA	assessment	

DAY TWO MORNING SESSION (235 minutes)

CHAPTER THREE. CROPS, ANIMAL SOURCE FOODS AND NUTRITION. (235 minutes)

Main Objective At the end of this chapter the trainee will be able to state nutrition values of different crops and animal source foods for improved food and nutrition security.

Time (min)	Learning Objectives	Key content	Teaching/Learning Methods	Resource Materials
10	Chapter introduction	-introduction of session objective -background information on crops, animal source foods and nutrition	Brain storming Interactive presentations	
20	Describe the nutritional value of different crops	-Nutritional value of different crops -Significance of dietary diversification for nutrition	-Interactive presentation -Discussion	Food groups Pictures
60	State nutritional implication of crop specialization and diversification	-Effect of crop specialization VS diversified production on nutrition -Emphasis on the use of agricultural income for diversification of household diet	-Interactive presentation -Discussion -Case study -Use Exercise 3.1	Case Scenario Picture/Video (specialization Vs Diversification
50	Explain the nutritional value of animal source foods	Nutritional value of Animal source food (Meat, milk, milk product egg, fish, honey, nutrient etc.)	Interactive presentation	
50	Apply technologies to increase production and consumption of animal source foods	-Artificial insemination -Improved forage seed and seedlings -Feed processing technologies -Cage system poultry production Improved breeds(day old chicks, fertile eggs)	-Interactive presentation - demonstration	Select technologies on skill base Cage vaccination
45	Analyze local animal and animal products market for better food access	Analyze local animal and animal products market for better food access	Interactive presentation Group Discussion	
		DAY TWO AFTED MOON CECC	TON (145 .)	L.

DAY TWO, AFTER NOON SESSION (145 min)

CHAPTER FOUR. INTERVENTION APPROACHES FOR IMPROVED NUTRITION. (310 minutes)

Main Objective: at the end of this chapter trainees will be able to practice production and consumption of animal source foods for better dietary diversification.

Time	Learning Objectives	Key Contents	Teaching/Learning Methods	Resource Material
145	Apply intervention approaches for improved nutrition	✓ Diversified production and	Interactive presentation Large group discussion	Video Case study
	improved natition	consumption ✓ Use of Bio-fortified crops and improved breads ✓ Specialization as an option ✓ Improved agricultural income ✓ Pre-post-harvest handling techniques ✓ Natural resource management ✓ Women empowerment	Demonstration Role play Video demo Case study	

DAY THREE: MORNING SESSION (220 minutes)

Time (min)	Learning Objectives	Key Content	Teaching/Learning Methods	Resource Material
165	Apply intervention approaches for	✓ Discuss animal management and health in relation to nutrition	Interactive presentation Large group discussion	Role play Scenario
	improved nutrition	✓ Apply safe handling of animal source	Demonstration	
		foods	Role play	
		✓ Analyze local animal and animal	USE Exercise 3.2	
		products market for better food access		
		✓ Marketing of nutritious crop and		
		animal source foods		

DAY THREE: MORNING SESSION (180 min)

CHAPTER FIVE: WASH AND NUTRITION. (90 min)

Main Objective: At the end of this chapter trainees will be able to discuss WASH practices to improve nutrition

Time (min)	Learning Objectives	Key Content	Teaching/Learning Methods	Resource Material
35	Explain the effect of WASH on Nutrition	-Diarrhea and Nutrition -Helminthes infection and Nutrition	Interactive presentation Small group activity	
	rutition	-Environmental Enteropathy	Use Exercise 5.1	
35	Discuss key agriculture related WASH practices that helps to improve nutrition	-Hygiene and Nutrition -Sanitation and Nutrition -Water access and Nutrition	Interactive presentation Video demonstration	Pictures Videos
20	Explain the importance and effect of small scale irrigation practices on nutrition	Small scale irrigation and nutrition	Interactive presentation Large group activity Self-Assessment	

DAY THREE, AFTERNOON SESSION (220 min)

CHAPTER SIX: GENDER AND NUTRITION. (120 min)

Main Objective: At the end of the section participants will be able to understand the concept of gender and the role of women in the family and society and its impact on nutrition

Time (min)	Learning Objectives	Key contents	Teaching/Learning Methods	Resource Materials
30	Define basic concept of Gender	-Gender and Sex -Gender role -Gender Equality	-interactive presentation -Use Exercise 6.1	
45	Explain the role of women and men in nutrition sensitive agriculture.	-IYCF and women -Child Caring and women	-Interactive presentation -Discussion	

		-Men involvement	- BS: Identify key action points how	
45	Discuss the importance of women	-Decision making role	the DA do to improve the gender	
	empowerment to improve family	-Economic resource	1ssue	
	nutrition	-Equal resource access	Summarize the chapter and Self-	
			assessment	

CHAPTER SEVEN. AGRICULTURE-NUTRITION SOCIAL BEHAVIOR CHANGE COMMUNICATION (280 min)

Main Objective: at the end of this chapter trainees will be able to apply behavior change approaches and skills related to agriculture-nutrition to the community.

Time (min)	Learning Objectives	Key contents	Teaching/Learning Methods	Resource Materials	
30	Describe stages of behavior change	-Stages of behavior change	 Interactive presentation BS: Ask a group to discuss and identify the challenging stage for BC and why 	Diagram of behavior change	
70	Describe the NAS KAP gap of the community and common barriers to behavior change.	- specific KAP in agriculture-nutrition -barriers and determinants related to NSA practices	- Use exercise 7.1	SBCC tools	
	DAY FOUR-MORNING SESSION (180 minutes)				

Time (min)	Learning Objective	Key Contents	Teaching / Learning Methods	Resources /Materials
90	Explain behavior change approaches for agriculture-nutrition	- Ggroup discussion approach -IPC during HH visits -Negotiation	 Interactive presentation BS: discuss on the advantage and disadvantage of Group discussion and IPC 	SBCC tools
90	Apply effective social behavior change communication tools and job aids.	-Qquestions to bring behavior change -Eexamples of communication tools & job aids	Interactive presentationUse excises 7.2Summarize the chapter and Self-	SBCC tools

		assessment		
	DAY FOUR-AFTERNOON SESSION (190 minutes)			

CHAPTER EIGHT.MULTI-SECTORAL COORDINATION FOR NUTRITION. (190 minutes)

Main Objective: at the end of this chapter, the trainee will be able to apply multi-sectoral coordination for nutrition and role of DAs in coordinating implementation of nutrition sensitive agriculture.

Explain the multi-sectoral nature of nutrition and the importance of coordination at various administrative levels in the implementation of the national nutrition program (NNP) Strategy		implementation of nutrition sensitive agriculture.					
Explain the multi-sectoral nature of nutrition of untrition and the importance of coordination at various administrative levels in the implementation of the national nutrition program (NNP) 35 min Explain the roles and responsibilities of various sectors for nutrition Outline and explain the roles and responsibilities of agriculture, livestock and fishery sectors in relation to the NNP and the MoANR NSA Strategy O Discus the roles of DAs in implementing nutrition sensitive agriculture and their planning's and coordination's with kebele actors. DAY FIVE-MORNING SESSION - Interactive presentation Strategy - Interactive presentation Strategy - Interactive presentation - Discussion - Interactive presentation - Interactive presentation - Discussion - Discussion - Role-play/Debate on accepting or rejecting the role of DA with checklist - Role-play/Debate on accepting or rejecting the role of DA with checklist - DAY FIVE-MORNING SESSION	Time	Learning Objectives	Key contents	Teaching/Learning Methods	Resource/Materials		
of nutrition and the importance of coordination at various administrative levels in the implementation of the national nutrition program (NNP) 35 min	(min)						
responsibilities of various sectors for nutrition 50 Outline and explain the roles and responsibilities of agriculture, livestock and fishery sectors in relation to the NNP and the MoANR NSA Strategy. 40 Discus the roles of DAs in implementing nutrition sensitive agriculture and their planning's and coordination's with kebele actors. 50 Outline and explain the roles and responsibilities of agriculture, livestock and fishery sectors in relation to the NNP 50 Interactive presentation 51 Discussion 52 Day FIVE-MORNING SESSION 53 Post-course-Test 54 Day FIVE-MORNING SESSION 55 Day FIVE-MORNING SESSION	35	of nutrition and the importance of coordination at various administrative levels in the implementation of the national	Ethiopian NNP II coordination and the NSA StrategyNNP II Strategic objectives	-Interactive presentation	NNPII and MoANR NSA		
responsibilities of agriculture, livestock and fishery sectors in relation to the NNP and the MoANR NSA Strategy. 40 Discus the roles of DAs in implementing nutrition sensitive agriculture and their planning's and coordination's with kebele actors. 30 Post-course-Test DAY FIVE-MORNING SESSION - Discussion	35 min	responsibilities of various sectors	<u> </u>	- Interactive presentation	MoANR NSA Strategy		
implementing nutrition sensitive agriculture and their planning's and coordination's with kebele actors. 30 Post-course-Test DAY FIVE-MORNING SESSION 240 Action Plan from training participants and Way Forward	50	responsibilities of agriculture, livestock and fishery sectors in relation to the NNP and the	agriculture, livestock and fishery	l =			
DAY FIVE-MORNING SESSION 240 Action Plan from training participants and Way Forward	40	implementing nutrition sensitive agriculture and their planning's and coordination's with kebele	- Roles of DAs in implementing NSA	- Role-play/Debate on accepting or rejecting the role			
240 Action Plan from training participants and Way Forward	30	Post-course-Test					
	DAY FIVE-MORNING SESSION						
DAY FIVE-AFTERNOON SESSION	240	240 Action Plan from training participants and Way Forward					
			DAY FIVE-AFTERNOON S	ESSION			

180	Field Trip: to the nearby FTC or research center					
	Evaluation					
	Closing					

EXERCISE SHEETS

Exercise sheets are developed for chapters. Exercise sheets are guides for the facilitator in conducting small and large group exercises such as group works, demonstrations, case scenario studies, and role plays. Exercises are complementary sessions for interactive presentations. Exercise sheet describe the key activities and steps to be followed by the trainers to effetely and time efficiently lead the exercise sessions. Exercise sessions are key factors for the attainment of the desired learning outcomes of the chapters, and facilitators are expected to get well prepared to lead the exercises. Active participation of each members of the group is key for the effectiveness of the exercises and achievement of the desired objectives. If conditions and contexts forces, there will be flexibility to modify exercise activities and /or steps, but in consultation with the training coordinators from the host organization.

General Instruction: for all exercises the facilitator should:

- (1) Display the title of the exercise and purpose of the exercise on the flip chart/ slide/ board.
- (2) Ensure group facilitator and note taker/presenter are assigned during group discussion
- (3) Ensure active participation of all members of the group
- (4) Ensure time is managed effectively
- (5) Ensure the take-home messages are addressed (as a summary of the chapter/printed copy)

CHAPTER ONE. BASICS OF HUMAN NUTRITION

Exercise sheet 1.1: Small group discussion on the six food groups

Purpose of the Discussion: To help participants to correlate the existing foods with healthy diet and dietary diversity

Materials Required:

- Marker, flipchart, scotch tap
- Total time for discussion: **35 minutes**

Steps/rules:

- Divide the participants into five groups
- Each group should nominate a chairperson and secretary
- Ask each group to read page 7 10
- Identify most available foods from each food groups
- Identify best approaches on how to insure the quality and quantity of selected diverse foods in their locality
- Let the group present to larger group within 5 minute using flipchart
- Every member should participate
- Allow question and answer session
- Facilitator should summarize key points of the presentation

Group report formats

Food groups	Most available foods in the	best approaches on how to insure the
	community	quality and quantity
•	•	
•	•	
		•

Exercise sheet 1.2: Small group discussion on impacts of malnutrition at individual, community and country level

Purpose of the Discussion: To help participants understand impact of malnutrition at individual, community and country level

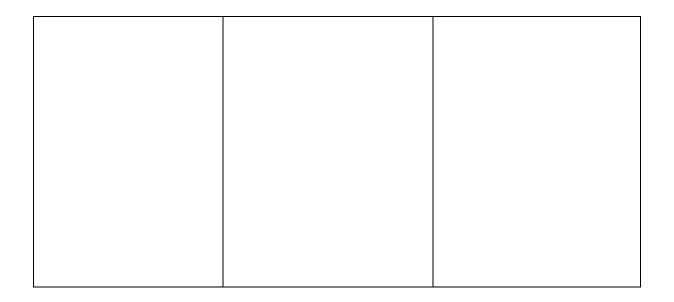
Materials required:

- Marker, flipchart, scotch tap
- Total time for discussion: **40 minute**

Steps/rules:

- Divide the participants into five groups
- Each group should nominate a chairperson and secretary
- Discus the issue thoroughly for 5 minute
- Instruct participants to read the reference material (1.6 1.8)
- Identify and discuss the different forms of malnutrition
- Ask the group to elucidate their understanding by drawing/picture of the causes, effect (long and short term at individual & community) and status of malnutrition at national level
- Insure each group presentation should define/address malnutrition, stunting, wasting and Vitamin A deficiency, Iodine deficiency and Iron deficiency
- Let the group present to larger group within 5 minute using flipchart
- Every member should participate
- Allow question and answer session
- Facilitator should summarize key points using power point slide

Impact of Malnutrition at Individual, Community and Region/Country Level					
Individual	Community	Region or Country Level			



Chapter Two. Agriculture Nutrition Linkage

Exercise Sheet 2.1: Explain the inter-relationship between agriculture and nutrition.

Purpose of the Discussion: To help participants understand the inter-relationship between agriculture and nutrition

Materials Required:

Reference manual

■ Total time for discussion: 20 minute

Steps/rules:

- Ask each individual to read table 2.1.1 about description of the relationship between agriculture and nutrition and select their 3 preferable components.
- Ask some volunteers to explain the rational of their selection
- Encourage participates to preset their view until most components addressed.
- Probe dialogues among the class on the rationales and if their different view

Exercise Sheet 2.2: Guiding principles and approaches of nutrition sensitive agriculture.

Purpose of the Discussion: To help participants how to implement the principles and approaches in their community context

Materials Required:

- Flip chart
- Total time for discussion: 30 **minute**

Steps/rules:

- Ask each group to read table 2.3. about guiding principles and approaches of nutrition sensitive agriculture.
- Assign 3 4 principles to each group (if there overlapping principles is fine) to write how to implement those given principles in their contexts. Encourage innovative approaches beside the list approaches in the manual
- Ask each group to present the larger group and allow Q&A on the presentation
- Take notes specially for new ideas and approach to summarize the session

Chapter Three. Crop, Animal Source Foods and Nutrition

Exercise Sheet 3.1: State nutritional implication of crop specialization and diversification

Purpose of the Discussion: To help participants how to use best way for improvement of crop specialization and diversification in their community context

Materials Required:

- Pain
- Small paper (note book paper)
- Total time for discussion: 60 **minute**

Steps/rules:

- After your presentation, ask each group to write 3- 4 best ways for improvement of crop specialization and diversification in their community context
- Make sure one idea should write on one paper and the idea should be action oriented.
- Ask them to post on the wall
- Together with participants categorize similar ideas with explanation/discussion
- Ask participates if there any additional new ideas
- Summarize the discussion by pointing out core identified ways for improvement of the crop specialization and diversifications.

Exercise Sheet 3.2: Animal management and health in relation to nutrition

Purpose of the Discussion: To help participants identify the best ways to improve their community animal management and health in relation to nutrition

Materials Required:

- Flip chart
- Total time for discussion: 60 **minute**

Steps/rules:

- After your presentation, ask each group to discuss their community practices of animal management and safe handling of animal source foods
- Ask to write a short scenarios/ story of a successful adoption of better animal management and safe handling of foods. In the scenario each group should include:
 - o Name of the family including women involvement
 - o Current problem/limitation of the family including the community (if needed)
 - The DAs role (how DA support) on the adoption of better management and handling
 - o The improvement/change at family level
 - o The story should complete in a year time frame.
- Ask them to post on the wall and read to the bigger group
- Encourage questions from participants to elaborate more and if there any better ideas
- Take a note of action points of the scenarios for your summery of the session.
- The action points will be your summery and assignment of the participants to implement in their locality

Chapter Four. Intervention approaches for improved nutrition

Exercise Sheet 4.1: Case scenario on the nutritional effect of specialization and diversification

Purpose of the exercise: to depict effect of specialization and diversification on household nutrition

Setting and participants: the role will be played as in a house hold setting, and role play participants will be grouped in to two.

Narration the case scenario

Mr Tolosa and Gadise are husband and wife and they live in a rural village. Mr Tolosa produce diversified food crop varieties (like Cereals, vegetables, fruits, legumes and other root crops). In addition, he also rears small animals like chicken and goat. Mrs Gadise is a house wife. She takes care of her kids and also assist Mr Tolosa in the field. Mr Tolosa and Gadise take care of their child by providing them proper food from different food groups (meal made from cereals, legumes, vegetables, fruits and animal source food). As they follow orthodox Christianity they don't cook animal-based diets in their home during the fasting season. SO their kid also relies on the family food prepared

Ato Bedada and w/ro Biftu are neighbors Ato Tolosa's family. Following the current cluster-based farming approach of the agriculture sector, Mr Bedada practices specialized farming where he totally covers his farm land with wheat every year. He uses most of his agriculture produce to sell and gets good sum amount of money which saves it in banks. Wife of Bedad, Biftu, offers their baby usually only cereal based porridge and she adds butter to her sons porridge. As she was advised by the HEW to make heir child food more diverse, she buys her kid potato from market to make him potato past. Whenever she goes to market she also buys him some fruits.

Discussion Questions

- 1. What difference did you see in the farming practice of the two families?
- 2. What effect do you think the farming practice of the two farmer would impose on the HH dietary habit?
- 3. How would you advise Mr Bedada to improve his family nutrition?

Exercise Sheet 4.2: Case scenario on Crop Calendar

Purpose of the Exercise: to help trainees understand seasonal effect on food access and ways to address the problem through crop calendar

Exercise setting: Class room

Materials required:

Flip chart Marker

Directions

Group in to five

Choose chair person and secretary from the members

Make your group discussion participatory

30 minutes for group discussion and 15 minutes for presentation

Discussion Question:

- 1. List all possible crops and animal source foods that can be grown or reared with in the 12 months of the year (you can divide in to the four seasons)
- 2. Divide the listed crops and animal source foods in to the six food groups
- 3. Compile a diet for a child from at least four of the six food groups
- 4. Identify the missing food(gap) groups from a child's meal
- 5. Identify ways to fill the gap to make the child food complete

Exercise sheet 4.2. Small group exercise on Dietary Diversity Strategies

Purpose of the Exercise: to check the awareness and practice of trainees on dietary diversification intervention strategies

Exercise setting: Class room

Discussion Question:

- 6. How do you think information regarding nutrition affect dietary intake of the farming households
- 7. Why do you think farmers need to prefer bio-fortified crops varieties to the regular crops?
- 8. How would women empowerment affect nutrition of a household?
- 9. Which of the dietary diversification strategies do you most prefer?
- 10. Do you think there is one single intervention strategy which capable of addressing the issue of nutrition generally?

Exercise Sheet 4.3. Demonstration on crops Post Harvest Handling and Preservation

Purpose of the Demonstration: To equip trainees with the skill of tomato sun drying and preparation of tomato juice

Demonstration setting and participants: the demonstration will be conducted in a class room setting and all trains will participate in the demonstration.

Procedures for tomato sun drying:

- wash hands and any exposed portion of the arms with soap and water before and after handling food
- tie hair;
- Keep fingers and nails clean and trimmed;
- Wear clean clothes;
- Do not sneeze or cough near food;
- When handling foods remove rings, bracelets which can be possible source of contamination;
- Use clean water and cleaning equipment.
- Keep away flies and insects.
- Clean hands thoroughly (including nails) before preparing food use soap and clean running water.
- Separate raw and cooked food.
- Check that everything is clean work surfaces and utensils (pots, pans, knives etc.).
- Wash fresh food in clean water.
- Clean everything after preparing food.

Preparation of sun dried tomato

• Ingredients

Cutting board, knife, and cheese cloth, drying table, water and salt

• Select firm, ripe, free diseases and mold tomatoes

Procedures

- Sort, discarding any that are spoiled andwash under clean tap water
- Cut the tomatoes on a cutting board, cut them in half
- Remove the seeds of the tomatoes, otherwise it slows down the drying process and effects the final quality of products
- Place the tomato halves cut-side-up on a screen and season them with sea salt to help draw moisture from the tomato flesh and speed the dehydration process
- Cover the tomatoes with cheesecloth over the tomatoes so it does not touch them. This will help to keep bugs off and birds out, as well as falling debris from trees.
- Find an area that has full sunlight for the majority of the day. Choose a really hot day.
- · Check on the tomatoes every so often after two days you have to turn
- Repeat the process each day until the tomatoes are dry to the touch but still flexible.
- Check all the tomato weather dry or not after that packed in air tight materials
- Keep the sun dried tomatoes in a cool, dark place

Sun dried tomatoes are healthy and delicious snacks that is very easy to make. You can make them into a salad or into a sauce if you like.

Procedure of tomato juice

■ Total time taken 45 minute

Ingredients

Tomato, sugar, and water, soup, bottle,

Procedure

- Selected ripened tomatoes, wash, cut into four or five pieces, grind (crashing) tomato by grinding machine, to remove the outer part and the seed of tomato use cotton cloth or sieve, then remove unwanted particle
- Measure the amount of tomato fluid and put in the boiling dish,
- Boil with frequent mixing which is until the foam remove it,(up to 30minite)
- Finally add sugar and well mix it after 45minite remove the tomato juice from fire and put in the clean and boil bottle then packed it.

Procedure

- 1. Selected ripened tomatoes
- 2. Wash by clean water repeatedly

- 3. Remove the blossom ends cored and any other spot on its skin and roughly chopped grind (crashing)
- 4. To remove the outer part and the seed of tomato use cotton cloth or sieve, then remove unwanted particle
- 5. Measure the amount of tomato fluid and put in the boiling dish,
- 6. Put all tomato juice into a large non-reactive pot (use stainless steel, not aluminum).
- 7. Boil the tomato fluid which is until the foam remove it,(up to 30minite)
- 8. Finally, after 30 mi, add 1.5kg sugar for 10kg tomato fluid and well mix it after 15minite remove the tomato juice from fire

Attention

- Washing the jars /bottle:
- Remove the soap from the jars thoroughly
- Boil the jars for 10 min and lids for 5 min.
- Keep the jars in hot water until they are used
- Fill hot jars with tomatoes and liquid leaving ½ inch head space. Remove air bubbles, wipe jars and adjust lids.
- Then seal tight & turn upside down on towel.
- Turn right-side up after about 1/2 hr

Chapter Five: WASH and Nutrition

Exercise Sheet 5.1: key agriculture related WASH practices that helps to improve nutrition

Purpose of the Discussion: To help participants understand their role on the improvement of key agriculture related WASH practices that helps to improve nutrition

Materials Required:

- Small paper
- Flip chart paper
- pen
- Total time for discussion: 50 **minute**

Steps/rules:

After your presentation, ask each group to discuss fill out the following forms

Activity	Current community	How to change	Improved practices
	practice		
Hygiene and			
nutrition			
Sanitation and			

Nutrition		
Water access and		
Nutrition		

- Ask to present for the bigger group
- Probe discussions if there any differences between groups write

Take a note for more suitable approaches and summarize the session

Chapter Six: Gender and Nutrition

Exercise sheet 6.1: Basic concept of Gender

Purpose of the Discussion: To understand the workload of women in their community **Materials Required:**

- Flip chart
- Total time for discussion: 45 **minute**

Steps/rules:

Post the following flipchart on the wall

Time	Man role	Women role	Time	Man role	Women role
6am			2pm		
7am			3pm		
8am			4pm		
9am			5pm		
10am			6pm		
11am			7pm		
12noon			8pm		
1pm			9pm		

- Ask participants to come and post the role of man and women at each hour of the day
- Categorize the posts based on similarity
- Ask participants what this chart tells about the workload of man and women
- Summarize this discussion by emphasizing the difference of workload

Chapter Seven: Nutrition-Agriculture Social Behavior Change Communication

Exercise sheet 7.1: Group Exercise on KAP gap of the community and common barriers to behaviour change.

Purpose of the exercise: To help the participants understand the community/individual barriers for behavioral change.

Steps of the activity:

1. Ask each groups to read 7.3 & 7.3.1 and discuss about the concept of knowledge,

Attitude and Practice

2. Ask each group to select 2 most common barriers for behavioral challenge in their

locality and to add one which is not mentioned in the list.

3. Ask each group to identify the rout cause of the selected barriers

4. Summarize this discussion by focusing on the rout causes.

Exercise Sheet 7. 2: Role play on SBCC skills

Purpose of the activity: To expose participants to real situation on SBCC skills application

through practice of sessions.

Steps of the activity:

1. After your presentation, ask each group to read 7.5 about Using Social behavior change

communication

2. Make them a pair and select topics or units from chapter one to six for their practice in

the class by considering learning styles and adult learning principles

3. Give them 20m' of preparation and 15m' to conduct a session

4. Ensure each team properly reflect, the visuals, skill-based practice (kinesthetic) and clear

instructions/information (Audio) including the adult learning principles.

5. Encourage a discussion on their facilitation skills after each practice

6. Summarize the sessions by pointing out key points from their practice with community

examples

Chapter Eight. Multi-Sectoral Coordination for Nutrition

Exercise Sheet 8.1. Group discussion on multisector coordination for improved

nutrition with other NNP II actors.

Purpose of the Discussion: To help participants understand multisector coordination to improve

national

Materials Required: Marker, flipchart, scotch tap

26

■ Total time for discussion: **40 minute**

Steps/rules:

- Divide the participants into four groups based on the region they are from
- Each group should nominate a chairperson and secretary
- Discuss the issue thoroughly for 15 minute
- Instruct participants to read the reference material
- Define and identify different forms of malnutrition
- Make summary notes as stated in the reporting format
- Let the group present to larger group within 5 minute using flipchart
- Every member should participate
- Allow question and answer session
- Facilitator should summarize key points using power point slide

Discussion questions

- 1. How do you see multisectoral coordination for nutrition with respect to UNICEF conceptual framework for undernutrition?
- 2. Which sectors do you think need to engage in the fight against under-nutrition in Ethiopia?
- 3. Is there coordination of BoA where you are from with other NNP II implementing organizations like BoH?
- 4. How often do you meet?
- 5. Do you have joint planning, implementation and monitoring?
- 6. What is the challenge in working together?
 - 1. What were the attempted solutions?

Exercise Sheet 8.2. Group discussion on the role of DAs in implementing nutrition sensitive agriculture.

Purpose of the Discussion: To help participants understand the role of DAs in implementing nutrition sensitive agriculture

Materials Required: Marker, flipchart, scotch tap

Total time for discussion: 40 minute

Steps/rules:

- Divide the participants into five groups
- Each group should nominate a chairperson and secretary
- Discus the issue thoroughly for 5 minute
- Instruct participants to read the reference material
- Define and identify different forms of malnutrition

- Make summary notes as stated in the reporting format
- Let the group present to larger group within 5 minute using flipchart
- Every member should participate
- Allow question and answer session
- Facilitator should summarize key points using power point slide

8.1.1 Reporting format for role of DAs

	Role and responsibility in implementing NSA					
S.No	Crop DA	Natural resource DA	Livestock DA	Cooperative DA	Irrigation DA	
1						
2						
3						
4						
5						

Annex I: Course Pre-Post Assessment question

National Harmonized Nutrition-Sensitive Agriculture Training for Development Agents

1. What is the food group which contains pulses such as beans, peas, peanut etc. ?

Pre and Post Course Assessment Questions

	Α.	Staples	C. Fais	
	B.	Legumes and nuts	D. Carboh	ydrate
2.	W	hat do you call the consumption of a wide	e variety of	foods across nutritionally distinct
	foo	od groups?		
	A.	Food security	C. Dietary	diversification
	B.	Nutrition security	D. Nutritio	ous food
3.	W	hich of the following explains being too s	hort for age	??
	A.	Wasting	C. Stuntin	g
	B.	Underweight	D. Over w	reight
4.	W	hich one of the following is categorized u	nder the un	derlying causes of malnutrition?
	A.	Political and ideological structures		
	B.	Maternal and child feeding and caring p	ractices	
	C.	Infrastructures (roads, communications,	etc.	
	D.	Lack of dietary intake by individuals		
5.	W	hich of the following is a short term effec	t of malnut	rition?
	A.	Susceptibility to infections	D.	Reduced work productively in
	B.	Impaired mental development		adulthood
	C.	Poor ability to learn in childhood		
6.	W]	hich of the following are components of f	food-based	approach?
	1.	Bio-fortification	3.	Dietary diversification
	2.	Iron supplement	4.	Increased food production
	A.	1, 2 and 3	C. 2, 3 and	14
	B.	1, 3 and 4	D. 1, 2 and	d 4
7.		hich of the following statement describes	•	_
	A.	Increasing household food production th	rough agric	culture guarantees nutrition
		security		
		Household food security ensures nutrition	•	
		Nutrition security involves access to foo		-
		Increasing household income directly tra		• 1
8.		hich component of food security is design	ned to enhar	nce the contribution of food
sec		ty for nutrition? links		
		Food access		Food availability
	В.	Food utilization	D.	Food Stability

- 9. Which of the following is preferred and effective approach for household dietary diversity for smallholder farmers specially in Ethiopia?
 - A. Commercialization and clustering of crop production
 - B. Homestead production for own consumption
 - C. Cash crop production for export
 - D. Commercial and state farming system
- 10. Which of the following food group is a good source for plant based protein?
 - a. Legumes

c. Vegetables

b. Fruits

- d. Cereals
- 11. Which of the following can be considered recommended intervention approach to improve nutrition of farming households engaged in specialized crop production?
 - 1. Practice Homestead gardening around their home
 - 2. Use of SBCC approach for positive dietary behavior
 - 3. Stop specialization and switch to diversified production
 - 4. Nutrition Education

A. 1, 2 and 3

C. 1, 3 and 4

B. 1, 2 and 4

D. 2, 3 and 4

- 12. Which of the following is a recommended approach to get good quality nutrition?
 - a. Consuming good quality cereal based foods
 - b. Consuming foods prepared from at least four of the six food groups
 - c. Consuming majorly animal based diets
 - d. Consuming majorly vegetable based foods
- 13. How can post harvest management contribute for nutrition?
 - a. Ensuring improved productivity
 - b. Producing diversified crops
 - c. Increasing shelf life of different foods/value addition
 - d. Ensuring specialized crop production and increased income
- 14. How can water shade management contribute to improved nutrition?
 - a. Being source for multipurpose trees
 - b. Being means for intercropping
 - c. Being means for specialized production
 - d. Being suitable for mechanized agriculture
- 15. Which of the following is considered a key issue with regard to gender
 - a. Equal access to land and other resources
 - b. Sex
 - c. Production and productivity
 - d. Water shed management.

16. Which or	ne describes the role of women and men in	Nuti	trition sensitive agriculture?	
1.	Using Livelihoods inputs and services in better dietary diversity	icrea	ase production and productivity for	
2.	Money controlled by women is more like health care for the children and the famil	-	to be spent on household nutrition an	nd
3.	Men evolvement in household activities to take good care of their children and th		-	ne
a. 1,	, and 2		c. 2 and 3	
b. 1,	, 2 and 3		d. 1 and 3	
17. How doe	s women empowerment affect Household l	Nutr	rition?	
1.	Access to resource support household fo	od e	expense	
2.	Better education create awareness in diet	tary (diversity	
	Minimize workload and improves childe			
	, and 2		c. 2 and 3	
,	, 2 and 3		d. 1 and 3	1
micronut	ne of the following is the most nutritious ar rients?	ııma	ai source food with various macro ar	10
a. Whey	/	c.	Milk	
b. Hone		d.	Butter	
19. Whitch C	ONE of the following practices is advised to	o imi	prove household nutrition?	
	ousing animals with family members to ma	_	-	
B. Pr	roper hand washing after application of co	mpo	ost and fertilizers	
C. K	eeping animal's dung close to house for fu	el		
D. R	earing of poultry using scavenging system			
20 Which O	NE of the following practices is advised to	imn	prove household nutrition?	
	ousing animals with family members to ma	-	<u>-</u>	
	roper hand washing after application of co			
C. K	eeping animal's dung close to house for fu	el		
	earing of poultry using scavenging system			
	the following is negative effect of irrigation		or nutrition?	
	acreased water access to production of crop			
	acreased infections of diseases such as mala	aria		
	acreased production of fodders			
D. Y	ear round production of crops			

	Identifies the impact of agriculture to improve					
24. Which	n one of the following is an SBCC approach in A	gric	ulture-Nutrition			
a.	Explanation	d.	Communication			
b.	Contemplation	e.	Negotiation			
c.	Visualization					
25. Which	n of the following SBCC tools can we use to dete	ermi	ne the community's current			
behav	ior?					
1. De	etermine who needs to change their behavior and	l wha	at behavior needs to change			
2. De	etermine why the behavior needs to change					
3. De	etermine the extent of the behavior change a	and	the implications of not changing			
be	haviors					
4. De	etermine what behavior change we would like t	to se	e and how we can see the desired			
ch	ange					
a.	1, 2 & 3	c.	1, 2 & 4			
b.	2, 3 & 4	d.	1, 3 and 4			
26. Which	n of the following does not explain about multi-s	ecto	r nature of nutrition?			
a.	1	indiv	vidual, institutional and system			
•	level capacities.					
b.	b. The need for collaboration with other sectors is not important as long as the health					
	sector implemented all nutrition interventions effectively.					
c.	c. Nutrition intervention requires collaborative engagement both vertically and					
•	horizontally across sectors and stakeholders.	,				
d.	Nutrition has a multi-dimension and multi-sect	oral	nature in terms of both effect and			
07 1111:1	outcome					
	n one of the following sector is responsible for pr	romo	oting school health and nutrition			
	ention?		***			
	Labor and social affair		Women and children			
b.	Education	d.	Youth and sport			

22. Which of the following is a component of the stages of behavior change?

What is the main role of Social Behavior Change Communication (SBCC) in NSA

b. Teaches communication skills to improve social interaction and public speakingc. Addresses the community's knowledge, attitude and practice related to NSA to

a. Increases knowledge on Nutrition Sensitive Agriculture (NSA) issues

d. Resistance

a. Identification

b. Maintenancec. Creativity

influence change

23.

- 28. Which one of the following is SBCC approach in Agriculture-Nutrition?
 - a. Explanation

d. Communication

b. Contemplation

e. Negotiation

- c. Visualization
- 29. All of the following SBCC tools can we use to determine the community's current behavior

Except

- a. Determine who needs to change their behavior and what behavior needs to change
- b. Determine why the behavior needs to change
- c. Determine the extent of the behavior change and the implications of not changing behaviors
- d. Determine what behavior change we would like to see and how we can see the desired change
- 30. Which of the following does not explain about multi-sector nature of nutrition?
 - a. The multi-sectoral nature of nutrition requires individual, institutional and system level capacities.
 - b. The need for collaboration with other sectors is not important as long as the health sector implemented all nutrition interventions effectively.
 - c. Nutrition intervention requires collaborative engagement both vertically and horizontally across sectors and stakeholders.
 - d. Nutrition has a multi-dimension and multi-sectoral nature in terms of both effect and outcome

Annex II: Daily and end of course Evaluation forms

1. Was the training content consistent with the stated objectives?		Not at all			Completely			
		1	2	3	4	5		
2. To what extent did the training provide the following?		Very	y poor		Excellent			
	a. Applicable theoretical information	1	2	3	4	5		
	b. Ways to apply the new information to your job	1	2	3	4	5		
	c. Practical examples	1	2	3	4	5		
	d. Time for discussion	1	2	3	4	5		
3. To what extent do you expect this training will make a difference in the way you do your job		Not at All Big			Big Dif	g Difference		
		1	2	3	4	5		
4. O	verall, how would you rate the usefulness of this training	Not Useful			Very Useful			
		1	2	3	4	5		
5. Overall, how would you rate the following aspects of the training			Very Poor			Excellent		
	a. Organization	1	2	3	4	5		
	b. Time allocation	1	2	3	4	5		
	c. Trainers	1	2	3	4	5		
6. W	hat did you like most about this training?							
7. W	hat did you like least about this training?				_			
8. If	you were given the task of redesigning the training what would yo	ou chan	σe?		_			
11		CIWII			_			

Thanks for your feedback