Visions Training Series State of Hawai'i Developmental Disabilities Division

NutritionCOURSE WORKBOOK

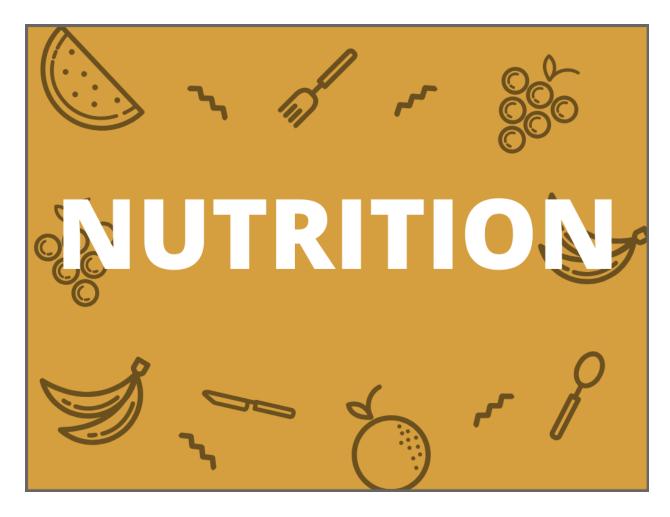




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Course Overview

In this course, you will learn about the general recommendations from *United States Dietary Guidelines for Americans* and *MyPlate*. These resources provide guidance on supporting a healthy lifestyle and reducing the risk of major chronic disease. In addition to these sweeping recommendations, this course discusses balancing choice and safety for participants when it comes to nutrition. A person's food and beverage choices are impacted by their culture and values, environment, and personal preferences. Additionally, a person may require a specific diet for a therapeutic purpose. For example, a participant may need a modified carbohydrate diet for diabetes or a low potassium diet for kidney disease. A participant may also need a modification diet, which includes adapted food and liquid textures and consistencies for the person to safely eat.

Course Objectives:

At the end of the course, you will:

Lessor	n 1: Nutrition Basics
٥	Identify the general recommendations of the <i>US Dietary Guidelines for Americans</i> and <i>MyPlate</i> .
	Distinguish between portion and serving.
	Identify the five essential nutrients and describe the main function of each.
۵	Classify food items as either carbohydrates; protein; saturated fat; polyunsaturated and monounsaturated fat; and vitamins and minerals.
	Identify the main function of cholesterol, sodium, and dietary fiber.
	Identify and describe the recommendations for clean, separate, cook, and chill.
Lessor	n 2: Balancing Important To (Choice) and Important For
٥	Describe the importance of offering choice for participants with their food and beverage choices.
٦	Identify factors that may impact a person's food and beverage choices and physical activity levels.
Lessor	n 3: Food Safety and Types of Diets
٥	Understand why a person's diet needs to be safe, adequate, individualized, and healthy.
	Describe a therapeutic diet and identify examples of typical therapeutic diets.
٥	Understand how a modification diet increases food safety for those who have difficulty swallowing.
	Recognize ways in which a person might describe how they experience an allergic reaction.
	reaction.
Lessor	n 4: Enteral and Parenteral Nutrition
	Distinguish between enteral nutrition and parenteral nutrition.
	Identify the different types of feeding tubes.
	Distinguish between the two types of feeding methods.

Lesson 1: Nutrition Basics

Topic 1: Dietary Guidelines and MyPlate

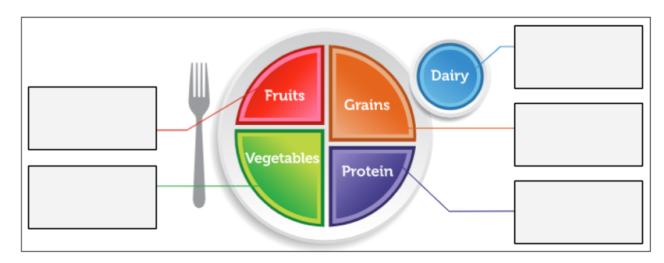
Dietary Guidelines

Every five years, the United States Department of Agriculture (USDA) and the Department of Health and Human Services (HHS) develop dietary guidelines for Americans. The guidelines include nutrition and physical activity recommendations to support a healthy lifestyle and reduce the risk of major chronic diseases.

The guidelines recommend:

1.	Focusing on,, and;
2.	Choosing foods and beverages with less saturated fat,, and
	added;
3.	Starting with changes to build healthier eating styles; and
4.	Supporting healthy eating for

MyPlate



Daily Food Group Targets - Based on a 2,000 Calorie Plan

1.	Fruits : Focus on choosing juices. Buy fruits the you can always have a supply	at are dried, frozen, canned, o	-
2.		of vegetables and add them and wraps. Fresh, frozen, and o " or "no-salt-added" on the la	canned count, too.
3.	Grains : Choose as bread, pasta, and tortillas. ingredients list for the words	If you are not sure if it's whole	
4.		r fat-free () dairy. Get rients as whole milk, but with nt? Try lactose-free milk or for	less saturated fat
5.	• •	ein foods such as beans, soy, s nuts and seeds. Select seafoo of meat and ground beef that	d a
Addi	tional <i>MyPlate</i> Recomme	endations:	
1.	Drink instead of drinks, and other sweet drink which provides more	s usually contain a lot of	
2.	Don't forget physical activity! manage Adults	Being active can help prevent should exercise at least r	

Activity: MyPlate

Let's practice now. Fill in the blanks.

Everything you eat and drink over time matters and can help you be healthier			
now and in the future.			
The following are some of the recommendations from <i>MyPlate</i> .			
Focus on fruits.			
Vary your veggies and vary your routine.			
Make of your grains whole grains.			
For dairy, move to low-fat or fat-free milk or yogurt.			
Drink instead of sugary drinks.			
Don't forget about physical activity. It is recommended to exercise at least			
minutes per week.			
Daily food group targets are based on a calorie diet.			

Topic 2: Nutrition Facts

Nutrition Facts Label

is based on the amount of food that is customarily eaten at one time. All of the nutrition information listed on the Nutrition Facts Label is based on one serving of the food.
The serving size is shown as a common household measure that is appropriate to the food (such as cup, tablespoon, piece, slice, or jar), followed by the metric amount in (g). When comparing calories and nutrients in different foods check the serving size in order to make an accurate comparison.
shows the total number of servings in the entire food package or container. It is common for one package of food to contain more than one serving.
The information listed on the Nutrition Facts Label is based on one serving . So, if a package contains two servings and you eat the entire package, you have consumed twice the amount of and listed on the label.
refers to the total number of calories , or "energy," supplied from all sources (fat, carbohydrate, protein, and alcohol) in one serving of the food.
To achieve or maintain a healthy body weight, balance the number of calories you
and with the number of calories you during
physical activity and through your body's metabolic processes.
As a general rule : 100 calories per serving is 400 calories per
serving is

The Nutrition Facts Label lists the calories from fat because fat has more than twice the number of calories per gram than carbohydrate or protein. For example, if the Nutrition Facts Label says one serving of food contains 150 calories and 100 calories from fat, the remaining 50 calories comes from carbohydrate, protein, and/or alcohol.

			(0/ D) () als are becomes als af
a nutrient is in o	one serving of th	e food.	_ (%DV) shows how much of

The %DVs are based on the Daily Values for key nutrients, which are the amounts of nutrients recommended per day for Americans 4 years of age and older. The %DV column doesn't add up vertically to 100%. Instead, the %DV is the percentage of the Daily Value for each nutrient in one serving of the food.

For example, the Daily Value for saturated fat is 20 grams (g), which equals 100% DV. If the Nutrition Facts Label says one serving of a food contains 1.5 g of saturated fat, then the %DV for saturated fat for this specific food is 8%. That means the food contains 8% of the maximum amount of saturated fat that an average person should eat in an entire day.

	The	shows each ingredient in a food by its
	common or usual na	ame in descending order by weight.

The ingredient with the greatest contribution to the product weight is listed first, and the ingredient contributing the least by weight is listed last. The ingredient list is usually located below the Nutrition Facts Label.

Serving Size and Portion Size
A is the amount of food that you choose to eat. The amount can be large or small. A is a measured amount of food or drink. This could be one slice of bread or eight ounces of milk.
Portion sizes have increased over time and has resulted in This occurs when a person thinks a "normal" portion is much larger than the recommended portion for a particular item.
To overcome portion distortion, it is recommended to:
1.
2.

Topic 3: Five Essential Nutrients & Other Food Components

Five Essential Nutrients All foods are comprised of ______ essential nutrients, in addition to water. 1. Carbohydrates: _____ 2. Protein: _____ 3. **Fat**: ______ Saturated Fat: _________ 4. Vitamins: 5. Minerals: Other Food Components Food also contains cholesterol, sodium, and dietary fiber. 1. **Cholesterol** is found in all food from ______ sources. Our liver produces all of the cholesterol our bodies need, so we do not need it from food. 2. **Sodium** is a mineral essential to the body in ______ amounts, but too much sodium can cause ______ blood pressure and can make many medical problems worse. 3. **Dietary fiber** helps prevent ______. It also helps lower blood thereby reducing the risk of heart disease.

Topic 4: Preventing Cross Contamination: Food Safety

1.	Clean includes wa	shing hands with	and	, cleaning
	, and ri	nsing		
2	Senarate includes	separating foods tha	t are ready to ea	t from
۷.	•		•	
	foods or foods tha	t might contain harm	ful microbes that	can cause
		in order to prev	ent	
3.	Cook includes coo	king foods to the reco	ommended safe _	
			0=	
4.	Chill includes keep	oing home refrigerato	rs at°F or I	below, refrigerating
	foods within	hours, and	foods properl	٧.

Lesson 2: Balancing Important To and Important For

The Importance of Choice

	g opportunities to exercise your and make			
life. As includ we oft when etc. th	that are meaningful to you is a critical component of living your good you learned in Course 3: Person-Centered Supports and Planning, a good life es things that are important to you as well as important for you. Remember, ten do what is important us (e.g. what we need to be healthy and safe) we are motivated by what is important us (i.e. the people, interests, nat really matter to us). Being able to choose what we do, where we go, and we do things are just some of the choices we make every day which we often or granted.			
Offe	ring Choice			
physic	factors may impact a person's food and beverage choices as well as their cal activity levels. A person's and,,			
and are various aspects of what is important to				
	and affect the choices they make. The choices a person makes based on what			
-	ortant to them has a direct impact on their health outcomes and what is			
impor	tant for them to be healthy and safe.			
1.	Culture and Values: A person will often make food choices based on their			
	, and			
2.	Environment : A person's environment includes the home, school,			
	workplace, restaurants, recreational facilities, and other community places. A			
	person's,, and			
	in various settings can influence a person's food and drink			
	choices based on what is and			
3.	Individual Preference: All people have their own unique food and drink			
	preferences. The food choices we make are usually based on our specific			
	and			

Lesson 3: Types of Diets

A pers	son's diet should be,, and			
1.	Safe: Food choices align with and the food is and safely.			
2.	Adequate: Foods are adequate in and			
3.	Individualized: Encourages and specific and manages medical conditions and other needs.			
4.	Healthy : Includes a variety of,, and,			
A therapeutic diet is a				
Therapeutic Diets				
The following are examples of therapeutic diets and conditions they are recommended for:				
1.	Modified diet - Diabetes			
2.	Low fat and low diet - Heart problems			
3.	Low Kidney Disease			
4.	High Bowel Health			
5.	and modification - Food Intolerance			
6.	. Elimination of peanuts, soy, and fish			
7.	High Epilepsy and Neurological Conditions			

Modification Diets

A mo	dified diet may include changes to foo	d and liquid	for individuals
	nave difficulty swallowing (hese individuals:). Modificatio	ons are vital to ensure
1.			
2.			
Туре	es of Textured Diets:		
1.	Soft Chopped Diet: food cut by hand		
	pieces or as prescribed by a Primary	Care Physician. Foo	od must be
	throughout and cannot	include any food t	:hat is,
	, or		
2.	Ground Diet : food that is moist,		, and easily
	formed into a rounded	in the mouth. Mea	its are ground or
	minced into pieces no larger than a q	uarter inch; all pie	ces are moist, and
	stick together slightly. A small amoun	t of starch such as	or
	added to ground foods	will help to make t	the food stick
	together slightly. Ground food is mois	st throughout but i	s not
3.	Pureed Diet: Food with a very		
	been well-processed in a	or	to a
	very smooth consistency or texture. N	No solid pieces or p	oarts can be noticed
	in the food. Pureed food has no lump	s and feels very so	oft and smooth in the
	mouth.		

Liquid Consistencies

There are four types of consistencies:

When modified liquid food texture is prescribed, the food texture should not be thinner than the prescribed liquid consistency.

	, , , , , , , , , , , , , , , , , , ,				
1. 1	Thin : Liquids and b	everages served			
t	Nectar: Apricot or thickening agent to eaves a	reach this consi	stency. Food r	uns freely off	•
t	Honey : Liquids can hickening agent to dollops (or blobs) o	reach this consi	stency. Food s		
r	Pudding : Liquids ar not stay upright. Lic consistency. Food s	uids will require	e a thickening	agent to reac	h this
Food Allergies					
A participant may have dietary restrictions based on a					
	gy is				
or severe to life-threatening Mild to moderate reactions can include				is can include	
	h ache, diarrhea, h				
life-threatening reaction can be, a life-threatening event					
that can cause an individual's breathing to stop if emergency medical treatment is					
not imr	nediately available				
% (any food can cause of all food-related a	llergic reactions	in the U.S. an	d include: pe	anuts, tree
nuts, milk, eggs, wheat, soy, fish, and shellfish. Sesame allergies are also a growing concern.					

Lesson 4: Enteral and Parenteral Nutrition

Some people are unable to receive nutrition through their mouth due to difficulties
with, disorders, or other conditions.
generally refers to the use of the gastrointestinal (GI) tract via tube, catheter, or surgically made hole to deliver part or all of a person's caloric requirements.
refers to the delivery of calories and nutrients into a vein.
nutrition is preferred whenever possible. However, nutrition may be needed when the person's caloric and nutrient needs cannot be met by the current level of functioning of their GI tract or use of the GI tract is difficult or unsafe.
Participants who receive enteral or parenteral nutrition must be under the care of licensed physician and must have specific, individualized orders for their nutritionacare.

Type of Feeding Tubes

The fo	ollowing are the different types of feeding tubes:
1.	Nasal Tubes: Nasal tubes are non-surgical and tubes placed
	through the (nasal) and into the or
	(abdominal). Types of nasal tubes include: Nasogastric (NG) Tubes,
	Nasoduodenal (ND) Tubes, Nasojejunal (NJ) Tubes
2.	Gastric or Gastrostomy (G) Tubes: A gastrostomy tube () is a
	tube inserted through the abdomen that delivers nutrition directly to the
3.	Gastrojejunostomy (GJ) or Transjejunal Tubes: Gastrojejunostomy tubes
	() are placed in the stomach just like G-tubes, but a thin, long
	tube is threaded into the jejunal (J) portion of the small intestine. The GJ-tube
	is a single tube that passes through the abdominal surface, into the stomach,
	and down into the second part of the small intestine (the jejunum).
4.	Jejunostomy (J) Tubes : A jejunostomy tube () is a soft, plastic
	tube placed through the skin of the abdomen into the midsection of the
	small intestine. A J tube is placed when the stomach must be bypassed
	entirely.

Feeding Methods

Two types of feeding methods include:

- 1. Bolus (feeding all at once), gravity, intermittent feeding: Nutrition is delivered several times throughout the day over short periods of time. This may be done by gravity (formula drips in) or via pump.
- 2. Continuous feeding: Nutrition is delivered slowly over the course of the day via a feeding pump. This method may be used when the stomach empties slowly.

Lesson 5: Summary

The guidelines and recommendations on nutrition and food safety are essential to ensuring people have what is important for their health and safety. The main take away for the Nutrition course is to emphasize the need to find a balance between what is important to and important for a person. People usually do not do what is important for them unless it is also important to them. No one should have to choose between health or happiness. Instead, people should be supported to be both happy and healthy. Ideally, the more a person knows and understands about what is important for their health, the more they will make healthier choices and find a balance between what is important to and important for them.



Main Takeaway: Support participants to balance what is important to and important for the person with their food and drink choices.