# THE SERIES POWERED BY NOFFS



Fitness

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# FUELING STRATEGIES

# THE SANDBAG TRAINING SERIES

FUEL YOUR PERFORMANCE



#### **NUTRITION CONSIDERATIONS: AUSTERE ENVIRONMENTS**

Even though you may not be using traditional workout equipment in Austere Environments, your body is still burning fuel and breaking down. To maximize your training, make sure you're getting enough nutrients. Proper planning is going to be crucial. Use these tips to ensure you're giving your body what it needs:

- **1. MAINTAIN FUEL.** Low Fuel = Decreased Performance. Make sure you stay fueled throughout the day with packed snacks that combine carbs, protein and fat.
- 2. USE BARS WISELY. Fuel on-the-go with bars. Choose bars with at least 30 g of carbohydrate, 3 g of fiber and 10-30 g of protein.
- **3. MINIMIZE DEHYDRATION.** Minimal Dehydration = Decreased Performance. Keep a water bottle with you at all times to stay hydrated.

#### TO MAXIMIZE YOUR PERFORMANCE GAINS YOU NEED TO:

#### FUEL.

- Use the Meal Builder to guide your nutrition and get the energy (calories) your body needs to support your activity.
- Meet your carbohydrate needs through high-fiber, minimally processed carbs.
- Meet your protein needs of about  $0.\bar{8}$  g per pound per day.
- Focus on getting enough carbs before and during your workout to fuel your body.

#### SUSTAIN.

- If your training is longer than an hour, enhance your performance by consuming 30-60 g of carbohydrate an hour through sports drinks, gels,
  or other carbs. If you're training at high intensity, long duration, or in extreme heat or humidity, choose a sport drink with at least 110 mg of
  sodium per 8 ounces to maximize hydration and prevent cramping. sports drink that has at least 110mg of sodium per 8oz to maximize
  hydration and prevent cramping
- Weigh yourself before and after your training and aim to lose less than 2% of your body weight during the session. (Please refer to the Hydration Section of NOFFS I for more information.)

#### RECOVER.

• Recover with a 3:1 carb to protein ratio within the first 30 minutes of completing your training session.

#### **FOUNDATIONAL NUTRITION**

Optimizing your foundational nutrition will ensure you have a solid fueling base to optimize performance and recovery. Below you will find a review of the basic fueling principles. For more information on these areas, refer back to Fueling Series.



**EATING CLEAN:** This means eating whole natural foods, such as fruits, vegetables, lean proteins, and high-fiber carbohydrates, and limiting processed foods, fast food, and foods high in sugar and fat.

**EATING OFTEN:** Eating frequently helps control blood sugar and energy levels. Opt for five or six meals/snacks a day, which is equivalent to eating every 2.5 – 3 hours.

**HYDRATE:** To stay hydrated aim to drink ½ to 1 ounce per pound of body weight per day. Make water and other naturally non-caloric beverages your first drink choice.

**RECOVER:** To avoid wasting your workout, eat a combination of carbs and protein within 30 minutes of completing your workout. Proper nutrition at the proper time will help you refuel, rehydrate, rebuild your body, and reach your goal quicker.

**MINDSET:** Use food to fuel your body for maximum performance. Strive to choose the foods that are best for you at least 80% of the time and enjoy other foods 20% of the time.

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FUEL YOUR PERFORMANCE



#### **MEAL BUILDER**

The biggest barriers to great nutrition are poor planning and poor implementation. The nutrition blueprint and meal builder make it easy to build meals and snacks that will keep you fueled and help you reach your goals. This tool will help you stay organized and create an environment for success. Always remember the 80/20 rule as you look to sustainably upgrade your nutrition. Choose high octane fuel 80% of the time and lower octane fuel that you really enjoy 20% of the time.

#### **BUILD YOUR MEAL IN 4 SIMPLE STEPS**

STEP 1

#### **IDENTIFY YOUR GOAL**

- I will lose weight
- I will maintain weight
- I will gain weight

STEP 2

#### **FIND YOUR FUEL ZONE**

 Find your gender and weight in the tables below and map across to find your Fuel Zone STEP 3

# LOCATE YOUR NUTRITION BLUEPRINT

- Using your Fuel Zone, locate your Nutritional Blueprint. This will guide you to building meals and snacks that are right for you.

STEP 4

# BUILD YOUR MEALS & SNACKS

- Go to the Meal Builder Food List
- With your Nutritional Blueprint, use the Meal Builder Food List to build your meals and snacks

4000 - 4200

4200 - 4400

4400 - 4600

## **SET YOUR GOAL, FIND YOUR FUEL ZONE**

I WILL FUEL TO...

STEP 1

	LUSE W	VEIGHT	IVIAINTAIN	WEIGHT	GAIN WEIGHT		
	CURRENT WEIGHT	FUEL ZONE	CURRENT WEIGHT	FUEL ZONE	CURRENT WEIGHT	FUEL ZONE	
	100 - 125	1400 - 1600	Under 105	2000 - 2200	100 - 110	2800 - 3000	1
щ	125 - 150	1600 - 1800	105 - 130	2200 - 2400	110 - 140	3000 - 3200	
┫	150 - 180	1800 - 2000	130 - 160	2400 - 2600	140 - 165	3200 - 3400	
FEM	180 - 205	2000 - 2200	160 - 185	2600 - 2800	165 - 195	3400 - 3600	
ш	205 - 235	2200 - 2400	185 - 210	2800 - 3000	195 - 220	3600 - 3800	П
	235 - 260	2400 - 2600					J
	Under 140	1800 - 2000	Under 140	2600 - 2800	Under 140	3400 - 3600	1
	140 - 155	2000 - 2200	140 - 160	2800 - 3000	145 - 165	3600 - 3800	
щ	155 - 175	2200 - 2400	160 - 180	3000 - 3200	165 - 185	3800 - 4000	

3200 - 3400

3400 - 3600

3600 - 3800

3800 - 4000

4000 - 4200

185 - 205

205 - 220 220 - 240

180 - 195

195 - 215

215 - 235

235 - 255

255 - 275

STEP 2

175 - 190

190 - 210

210 - 230

230 - 250

250 - 265

265 - 285

285 - 305

2400 - 2600

2600 - 2800

2800 - 3000

3000 - 3200

3200 - 3400

3400 - 3600

3600 - 3800



# **Locate Your Nutrition Blueprint - The Sandbag Training Series**

Using the Fuel Zone you identified in Steps 1 & 2, locate your personal Nutritional Blueprint to fit your caloric needs. Your blueprint has six columns across the top that represent meal times, or "fueling times". The food groups are represented along the left hand side, and the numbers located within the zone are the recommended number of servings from each food group at each fueling time.

1400 - 1600	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	2	1	1 to 2	1	1 to 2	
Proteins	1		1		1	1
Fruits	0 to 1	1	1	1	1	1
Vegetables	∞	00	∞	00	∞	∞
Fats	1	1	1	1	1	0 to 1
Calorie Range	350 - 400	175-200	280 - 320	175 - 200	280 - 320	140 - 160
*Meal Replacement Shake or Bar		1		1+ fruit		1

1600 - 1800	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	2	1 to 2	2	1 to 2	2	
Proteins	1		1		1	1
Fruits	1	1	1	1	1	1
Vegetables	∞	∞	∞	∞	∞	∞
Fats	1	1	1	1	1	1
Calorie Range	400 - 450	200 - 225	320 - 360	200 - 225	320 - 360	160 - 180
*Meal Replacement Shake or Bar		1		1+ fruit		1

1800 - 2000	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	2 to 3	1 to 2	2	1 to 2	2	
Proteins	1	0 to1	1	0 to 1	1	1
Fruits	1 to 2	1	1 to 2	1	1	1
Vegetables	∞	∞	∞	∞	∞	∞
Fats	1	1	1	1	1	1
Calorie Range	450 - 500	225 - 250	360 - 400	225 - 250	360 - 400	180 - 200
*Meal Replacement Shake or Bar		1+ fruit		1+ 2 fruit		1

2000 - 2200	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	3	2	2	2	2	0 to 1
Proteins	1	0 to 1	1	0 to 1	1	1
Fruits	2	1	2	1	2	1
Vegetables	∞	∞	∞	∞	∞	∞
Fats	1	1	1	1	1	1
Calorie Range	500 - 550	250 - 275	400 - 440	250 - 275	400 - 440	200 - 220
*Meal Replacement Shake or Bar		1+ fruit		1+ 2 fruit		1+ fruit

2200 - 2400	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	3	2	2 to 3	2	2 to 3	1
Proteins	1 to 2	1	1	1	1	1
Fruits	2	1	2	1	2	1
Vegetables	00	∞	00	∞	∞	∞
Fats	1	1	1	1	1	1
Calorie Range	550 - 600	275 - 300	440 - 480	275 - 300	400 - 440	200 - 220
*Meal Replacement Shake or Bar		1+ fruit		1+2 fruit		1+ fruit

2400 - 2600	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	3	2	3	2	3	1
Proteins	2	1	1	1	1	1
Fruits	2	1	2	1	1 to 2	1
Vegetables	∞	∞	∞	∞	∞	∞
Fats	1	1 to 2	1	1 to 2	1	1
Calorie Range	600 - 650	300 - 325	480 - 520	300 - 325	480 - 520	240 - 260
*Meal Replacement Shake or Bar		1+ fruit +1 fat		1+2 fruit +1 fat		1+ fruit +1 fat

2600 - 2800	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	3	2	3	2	3	1
Proteins	2	1	1	1	1 to 2	1
Fruits	2	1	2	1	2	1 to 2
Vegetables	∞	∞	∞	∞	∞	∞
Fats	1 to 2	1 to 2	1 to 2	1 to 2	1	1
Calorie Range	650 - 700	325 - 350	520 - 560	325 - 350	520 - 560	260 - 280
*Meal Replacement Shake or Bar		1+ fruit +1 fat		1+2 fruit +1 fat		1+ fruit +1 fat

2800 - 3000	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	3	2	3	2	3	1
Proteins	2	1	1	1	2	1
Fruits	2 to 3	1	2	1	1 to 2	2
Vegetables	∞	∞	∞	∞	∞	∞
Fats	2	1 to 2	2	1 to 2	1	1
Calorie Range	700 - 750	350 - 375	560 - 600	350 - 375	560 - 600	280 - 300
*Meal Replacement Shake or Bar		1+ fruit +1 fat		1+2 fruit +1 fat		1+ fruit +1 fat

3000 - 3200	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	3	2	3	2	3	1 to 2
Proteins	2	1	1 to 2	1	2	1
Fruits	3	1	2	1	2	2
Vegetables	∞	∞	œ	∞	∞	∞
Fats	2	1 to 2	2	1 to 2	1 to 2	1
Calorie Range	750 - 800	375 - 400	600 - 640	375 - 400	600 - 640	300 - 320
*Meal Replacement Shake or Bar		1+ fruit +1 fat		1+2 fruit +1 fat		1+ fruit +1 fat

3200 - 3400	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	3 to 4	2	3	2	3	2
Proteins	2	1	2	1	2	1
Fruits	3	1	2	1	2	2
Vegetables	∞	∞	∞	∞	∞	∞
Fats	2	1 to 2	2	1 to 2	2	1
Calorie Range	800 - 850	400 - 425	640 - 680	400 - 425	640 - 680	320 - 340
*Meal Replacement Shake or Bar		1+2 fruit +1 fat		1+2 fruit +1 fat		1+2 fruit +1 fat

3400 - 3600	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	4	2 to 3	3	2 to 3	3 to 4	2
Proteins	2	1	2	1	2	1
Fruits	3 to 4	1	2	1	2	2
Vegetables	∞	∞	∞	∞	∞	∞
Fats	2	1 to 2	2 to 3	1 to 2	2	1 to 2
Calorie Range	850 - 900	425 - 450	680 - 720	425 - 450	680 - 720	340 - 360
*Meal Replacement Shake or Bar		1+2 fruit +1 fat		1+2 fruit +2 fat		1+2 fruit +1 fat

3600 - 3800	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	4	2 to 3	3 to 4	2 to 3	4	2
Proteins	2	1	2	1	2	1
Fruits	4	1	2	1	2	2
Vegetables	00	∞	∞	∞	∞	∞
Fats	2 to 3	1 to 2	3	1 to 2	2	1
Calorie Range	900 - 950	450 - 475	720 - 760	450 - 475	720 - 760	360 - 380
*Meal Replacement Shake or Bar		1+2 fruit +1 fat		1+2 fruit +2 fat		1+2 fruit +1 fat

#### **COACH TIP:**

Remember, the biggest barriers to great nutrition are poor planning and poor implementation. Stay organized and do what you can to create an environment for success. To get you started, make a copy of your Nutrition Blueprint and put it somewhere you'll have easy access to when making fueling decisions, like in your wallet or on your fridge.

3800 - 4000	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	4	3	4	3	4 to 5	2
Proteins	2	1	2	1	2	1
Fruits	4	1	2	1	2	2
Vegetables	∞	∞	∞	∞	∞	∞
Fats	3	1 to 2	3	1 to 2	2	1 to 2
Calorie Range	950 - 1000	475 - 500	760 - 800	475 - 500	760 - 800	380 - 400
*Meal Replacement Shake or Bar		1+2 fruit +1 fat		1+2 fruit +2 fat		1+2 fruit +1 fat

4000 4000						
4000 - 4200	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	4	3	4	3	4 to 5	2
Proteins	2	1	2	1	2	1
Fruits	4	1	2	1	2	2
Vegetables	∞	∞	00	∞	∞	∞
Fats	3	2	3	2	2	1 to 2
Calorie Range	1000 - 1050	500 - 525	800 - 840	500 - 525	800 - 840	400 - 420
*Meal Replacement Shake or Bar		1+2 fruit +2 fat		1+2 fruit +2 fat		1+2 fruit +2 fat

4200 - 4400	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	4	3	4	3	5	2
Proteins	2	1	2	1	2	1
Fruits	4	1	2	1	2	2
Vegetables	∞	∞	∞	∞	∞	∞
Fats	3	2 to 3	3	2 to 3	2	1 to 2
Calorie Range	1050 - 1100	525 - 550	840 - 880	525 - 550	840 - 880	420 - 440
*Meal Replacement Shake or Bar		1+2 fruit +2 fat		1+2 fruit +2 fat		1+2 fruit +2 fat

4400 - 4600	BREAKFAST	SNACK	LUNCH	SNACK	DINNER	SNACK
Grains	4	3	4 to 5	3	5	2
Proteins	2	1	2	1	2	1
Fruits	4	1	2	1	2	2
Vegetables	∞	∞	∞	∞	∞	∞
Fats	3	2 to 3	3	2 to 3	2	1 to 2
Calorie Range	1100 - 1150	550 - 575	880 - 920	550 - 575	880 - 920	440 - 460
*Meal Replacement Shake or Bar		1+ 2 fruit +2 fat		1+2 fruit +2 fat		1+ 2 fruit +2 fat

## \*When choosing meal replacements:

- 1. Make sure it fits within your calorie recommendations
- 2. Should have at least 3g of fiber
- 3. Should have 10 30g of protein for women
- 4. Should have 15 42g of protein for men

**STEP** 4

#### **Build Your Meals & Snacks**

Using your Nutritional Blueprint, follow the directions below to start filling your day with meals and snacks designed to help you with your goals.

#### **Map Your Blueprint**

The food list below has foods from each of the categories found in your Nutrition Blueprint.

#### Size Up Your Servings

The number to the left of each food item equals one serving (eg. 1 slice of whole wheat bread = 1 grain serving).

#### Mix It Up

Each serving may be used interchangeably. For example, if you tire of whole wheat toast at breakfast you can replace it with any of the foods listed in the grain column. If you have more than one serving suggested, you can double up on the same food (eg, 2 slices of whole wheat toast) or mix and match (eg, 1 slice of whole wheat toast and 3/4c Multi grain Cheerios). You are limited only by your creativity!

You are now prepared to build customized meals and snacks to help you meet your goals. These meals and snacks will provide you with sustainable fuel throughout the day as well as the energy you need for your workouts. Remember, to maximize your energy and reach your body composition goals, think about both quality and quantity of your food choices.

#### **GRAINS/STARCHES:**

Pasta/Rice

Brown Rice (cooked)

Whole Wheat Cous Cous (cooked)

Whole Wheat Pasta (cooked)

Risotto, Quinoa (cooked)

**Breads/Tortillas/Rolls** 

1slice Bread (100% Whole Wheat)

Pita Bread (6" diameter each) Whole Wheat Bagel

English Muffin Whole Wheat Hamburger/

Hot dog Bun Sub Bread (6" each)

Whole Wheat Tortilla

Corn Tortillas

Whole Wheat Roll (1oz each) 1<sub>sm</sub>

#### **Cold Cereals**

All Bran Cereal

Cheerios Cereal

Cheerios MultiGrain Cereal

Cracklin Oat Bran Cereal Frosted Mini Wheats Cereal

½c

Grape Nuts Cereal Kashi Go Lean Cereal Kashi Go Lean Crunch Cereal Kashi Go Lean Honey Almond Flax

½c

Muesli Cereal Raisin Bran Cereal ½c

Smart Start Cereal

Special K Cereal

Whole Wheat Total Cereal

#### **Hot Cereals**

Cream of Wheat (cooked)

Packet Kashi Instant Oatmeal

Packet Quaker Instant Oatmeal ½c Slow Cooked Oatmeal

#### Veggies, Beans, Potatoes

Soy Beans (cooked)

Split Peas(cooked)

Squash (winter, acorn, butternut)

½c

Peas (cooked) Baked Potato

Beans: Black, Kidney, Pinto, Lima, Lentils (cooked/canned)

½c Corn (cooked) Ear of corn

Sweet Potato (cooked) ½c

Yam (cooked)

Mashed Potatoes

#### Snacks/Crackers/Granola Bars

Kashi Granola Bar

Graham Crackers

Whole Wheat Crackers (baked)

Whole Wheat Melba Toast

Nature Valley Granola Bar

8 Animal Crackers Light Popcorn (popped) Pretzels

2 Rice Cakes (4" diameter each)

Reduced Fat Triscuits

Whole Grain Fig Newton

#### **PROTEINS / DAIRY:**

Fish/Seafood

Fish

Cod

Flounder

Haddock 307

3oz Halibut

307 Salmon

3<sub>oz</sub> Shrimp

3<sub>oz</sub> Trout

3<sub>oz</sub> Tuna

**Poultry** 

Chicken (lunch meat) 307

3<sub>oz</sub> Chicken breast

Ground turkey (cooked)

Turkey (lunch meat)

Turkey breast

#### Beef/Pork

Beef (96% lean ground chuck)

1.5<sub>oz</sub> Beef jerky

Beef tenderloin

London broil

Pork (grilled)

3<sub>oz</sub> Roast beef (lunch meat)

#### Dairy

1% or non-fat regular milk

or chocolate milk Non-fat or low fat cottage cheese

½c

Non-fat frozen yogurt Non-fat or low fat greek yogurt 1 807

Reduced-fat soy milk

2% String cheese

#### Eggs

Egg Substitute

4 Egg Whites

Omega-3 Eggs

Beans: Black, Kidney, Pinto,

Lima, Lentils (cooked/canned) Calcium-fortified light soy milk

2т Soy beans (cooked)

Split peas

Almond butter 1т 1т Peanut butter (natural)

Raw nuts

#### **MEAL REPLACEMENTS/PROTEIN POWDERS:**

scoop Whey Protein\*

Bar Shake

\*Make sure to choose protein powders that are certified safe and reliable. Check out www.nsfsport.com for a complete list.

#### Meal replacement considerations:

Make sure it fits within your calorie recommendations

Should have at least 3g of fiber

Double check the protein level - Women need **10-30g** 

Men need 15-42g

#### **VEGETABLES:**

Green

Arugula 1c

½c Asparagus (cooked)

1c

Asparagus (raw) Broccoli (cooked) ½c

1c Broccoli (raw)

1c Brussel sprouts

½c Celery (cooked) 1c Celery (raw)

Collards (cooked) 1c

Cucumber (raw)

½c Green beans (cooked)

1c Green beans (raw) 1c Green veggie salad

1c Kale (raw)

Lettuce (all) 1c Spinach (raw)

#### 1c

1c

White

Cabbage (cooked) Cabbage (raw)

Cauliflower (cooked)

Cauliflower (raw) 1c

½c Onions (cooked)

1c Onions (raw) Water chestnuts (cooked) ½c

Water chestnuts (raw)

Red

Tomato, beets

#### ½c Salsa, tomato sauce

**Orange** 

Carrots (cooked)

#### Carrots (raw)

**Mixed Colors** 

Peppers (cooked) Peppers (raw)

Stir fry vegetables (cooked)

1c Stir fry vegetables (raw/frozen) Vegetable juice 6oz

Zucchini (cooked) Zucchini (raw) ½c

**FRUITS:** 

Red 1sm. Apple

Applesauce (unsweetened)

12 Cherries Raspberries 1c Strawberries (whole)

Watermelon (cubed) ½m. Grapefruit

#### **Orange**

Cantaloupe (cubed)

Orange, nectarine or peach

Tangerine 1Ig.

Yellow ½lg.

Banana(s) Pineapple chunks (in own juice)

Blackberries or boysenberries

Blueberries

14 Grapes Plums

2sm. 3 2T Prunes (dried plums) Raisins

Green Honeydew melon (cubed)

#### 1sm. Kiwi fruit 1sm. Pear

**Mixed Colors** 

Dried fruit

2T ½c Fresh fruit salad

Fruit cocktail (own juice) Fruit juice (100% juice)

#### Mixed berries (fresh/fro-1c zen)

FAT'S (CHOOSE OFTEN): 1т Nut butters: Almond, peanut, etc...

10-15 Nuts: Almonds, walnuts, pecans

Avocado

12<sub>lg</sub> Black or green olives Plant oils: olive, canola, flax

Flax seeds Hummus

1.5t 2T 2T 2T 2T Seeds: Pumpkin, sesame,

sunflower Guacamole

#### Smart Balance, Benecol

FATS (CHOOSE LESS OFTEN):

Butter (stick)

1<sub>oz</sub> Cheese

1slice Cheese

Cream cheese Half & Half

2t 3T Mayonnaise Reduced-fat cream cheese

Reduced-fat sour cream Sour cream

4т 2т 1 2% String cheese Turkey bacon slice

Turkey sausage link Commercial salad dressings

= 1 Teaspoon

**1**T

sm. = Small

= 1 Tablespoon med. = Medium = 1 Cup

= Large