# USCGA Health and Physical Education Fitness Preparation Guidelines



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# **USCGA Health and Physical Education Fitness Preparation Guidelines**

#### **HOW THIS GUIDE WORKS**

This guide provides you with advice and a sample workout to get you ready for Swab Summer at the US Coast Guard Academy. The main goal is to prepare you for the physical and mental demands of Swab Summer, and to get you physically fit. By preparing for Swab Summer you will reduce the risk of preventable overuse injuries such as shin splints and rhabdomyolysis.

#### **MUSCULAR STRENGTH & ENDURANCE**

Muscular strength and endurance can be improved by systematically increasing the load (resistance) that you are using. Any overload will result in improvement, but higher intensity and effort will result in greater improvements. Start at a level that is easy for you to perform and complete, then add resistance gradually. Apply these general weight training principles when beginning the strength program.

#### AEROBIC OR CARDIOVASCULAR FITNESS

Aerobic exercises are those that strengthen your heart and improve circulation. Systematically increasing load, intensity, volume, while decreasing rest times will result in improved performance in Aerobic exercises (running, swimming, biking, etc.). Prior to initiating the running portion of this training program, it is recommended that you ensure you have proper footwear. Worn-out or improperly fitting shoes are the leading cause of injury. Running surface can also play a role in lower leg injuries. Make every effort to run on softer surfaces like grass and trails (dirt, woodchips, or crushed gravel) over pavement and cement. In some cases, harder surfaces cannot be avoided in order to achieve the volume recommended in this guide.

The running portion of the program has the following elements:

- 1. **Easy Run**: the largest part of the cardio program, completed as a single continuous run at a comfortable pace (<u>not a jog</u>). Talking to a running partner shouldn't be a problem, but if you can chat continuously, it may be too slow.
- 2. **Medium Effort**: Faster than an Easy Run, but still slower than your PFE pace; you can still speak in a full sentence if asked, but you won't want to. A session at this pace should be done as a single continuous run or repetitions as short as 4 minutes. Be sure to warmup and cool down.
- 3. **Hard Effort**: these workout sessions are conducted during weeks 4-7 and only after running the 1.5 Mile Time Trial during week 4. The goal paces for these workouts are listed on the "Recommended Running Pace" table on page 5 and are based off of your time from the 1.5 Mile Time Trial. The best comparison for this pace is running a hard one mile effort.
- 4. **Hill Running**: Find a hill (100-150 meters long) with a gradual ascent (approx 5-15° incline). If a hill is not available where you train, utilize a treadmill and aim for a 3-6% incline.
- 5. **Strides:** Running very fast, but smooth and under control. Aiming for 85-90% of maximum effort for the distance you are covering. Thoroughly warm up and cool down for any speed work.

6. **Non-running**: A day where you should do your scheduled time for running as a non-running cardio exercise, such as biking, swimming, etc.

#### **FLEXIBILITY**

Muscles and joints become stiff and lose their range of motion with inactivity or activity overload. The Dynamic Flexibility and Movement Prep warm-up listed on page 5 is designed to maintain good joint mobility, reduce injury risk, improve the ability of your muscles to adapt to physical stresses, and enhance overall muscle performance. This is a whole body warm-up that target major areas of the body such as lower back, hips, hamstrings, quadriceps, shoulders, etc. If you feel the need to take a few extra minutes to stretch after the prescribed warm-up below, you may conduct static stretching by holding each stretch 10-20 seconds and any muscle group desired. Don't over-stretch to the point of pain and avoid bouncing movements.

#### **RECOVERY**

Recovery is a critical part of your weekly training program. There are several ways rest is built into the program. First, there are times when a "Rest" day is planned, which means no exercise should take place. This will allow your body to rest and recover in an effort to prepare for the next conditioning session. Next, there are "Active Rest" components to the conditioning program that appear as "Non-Running" or "Easy-Runs". These are less intensive on the body, but still provide both valuable training opportunities and to aid in the recovery process.

#### **WALKING**

You will be constantly transiting around campus all summer to and from various activities. Many times, this transit will be a very FAST paced walk. The hilly terrain at the USCGA and the different mechanism of walking from running, can also lead to an increase in overuse injuries. It is important that along with working on your muscular strength and endurance, your aerobic fitness, and flexibility you also focus on improving your ability to walk efficiently in both boots and in running shoes. Walking Fast, Walking Up and Down Hills, should be incorporated into any training that you do.

#### **CLOSING NOTES**

Although not every prospective swab will have identical levels of physical fitness, enclosed in this document, you will find a program to help get you ready for the demands of Swab Summer. You will find a Master Schedule (8 Weeks in total), followed by more detailed instructions on each of the components of the workout. This includes suggested paces for your runs, sample circuit training workouts, and an entry level swimming program.

Exercises should begin on Monday, 07 May 2018 in order to accommodate the full 8 week training period.

Upon arrival at the Coast Guard Academy for Swab Summer you will be completing a Physical Fitness Exam (PFE). This exam will be given in the first week of training as well as at the end. Following the summer training period, cadets take the PFE two times a year. The PFE consists of push-ups (2 minutes), sit-ups (2 minutes) or Max Plank Hold (4:15), and a 1.5 mile run. The first two items measure the muscular strength and endurance of the upper body and the abdominals. The 1.5 mile run is a measure of your cardio-respiratory fitness.

### Swah Summer Readiness Program Endurance Notes

Recommended Running Pace (Based on PFE 1.5 Mile Time Performance)

		Facu Dage	Hard Effort	
1.5 Mile Time	1.5 Mile (in Seconds)	Easy Pace	400 meters	
7:30	450	6:30 - 7:30 per mile	1:12	
8:00	480	6.30 - 7.30 per fille	1:16	
8:30	510		1:20	
9:00	540	7:30 - 8:30 per mile	1:26	
9:30	570		1:30	
10:00	600		1:34	
10:30	630	8:30 - 9:30 per mile	1:38	
11:00	660		1:42	
11:30	690		1:46	
12:00	720	9:00 - 10:30 per mile	1:50	
12:30	750		1:54	
13:00	780		1:58	
13:30	810	10:00 - 11:30 per mile	2:02	
14:00	840		2:06	
14:30	870		2:10	
15:00	900	11.20 12.00 per mile	2:18	
15:30	930	11:30 - 13:00 per mile	2:23	
16:00	960	1 F	2:28	

Movement Prep & Dynamic Flexibility						
EXERCISE	Wks 1-4	Wks 5-8				
Low Skip with Arm Hugs	2 Sets/20 yds	2 Sets/30 yds				
Side Shuffles w/Lateral Arm Swings (Right)	1 Set/20 yds	1 Set/30 yds				
Side Shuffles w/Lateral Arm Swings (Left)	1 Set/20 yds	1 Set/30 yds				
Walking Hip Circle	2 Sets/20 yds	2 Sets/30 yds				
Carioca Left	1 Set/20 yds	1 Set/30 yds				
Carioca Right	1 Set/20 yds	1 Set/30 yds				
Lunge with Twist	2 Sets/20 yds	2 Sets/30 yds				
Walking Quad Stretch	2 Sets/20 yds	2 Sets/30 yds				
Hamstring Kicks	2 Sets/20 yds	2 Sets/30 yds				
High Knees	2 Sets/20 yds	2 Sets/30 yds				
Butt Kicks	2 Sets/20 yds	2 Sets/30 yds				
Accelerations	2 Sets/20 yds	2 Sets/30 yds				

# **Swab Summer Readiness Program Week 1**

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#### **Easy Run**

10-12 min run at easy pace

#### **Tuesday**

#### **Physical Fitness Test**

Dynamic Flexibility & Movement Prep followed by....

Execute the Coast Guard Academy Physical Fitness Exam.

Part 1: Begin with Push-ups on a cadence (1 sec up & hold, 1 sec down & hold) for 2:00.

Max for Men is 60, Max for Women is 48

Rest 2 minutes

Part 2: Proceed to Sit-ups. Execute as many Sit-ups in 2:00 as possible. Max is 100 Sit-ups. Or Hold Plank position for as long as possible - max is 4:15 refere to guidance for

 ${\sf PFE}\, on\, www.cgapsorts.com$ 

Rest 10 minutes
Part 3: Run 1.5 miles as fast as possible.

#### Wednesday

#### **Non-Running Workout**

Elliptical, Bike, Swim, etc for 15-20 min

See Swim Workout tab for swimming ideas

#### **Thursday**

#### **Circuit Training**

Dynamic Flexibility & Movement Prep followed by....

Complete as Many Rounds in 5:00

10 Box / Bench Jumps Overs

:30 sec Plank

Rest 3:00

Complete as many rounds in 5:00

10 Burpees

10 Back Extensions

#### Friday

#### **Running Workout**

10-12 min run at easy pace

After easy run, 5 x 100 meter strides (light jog back to start)

#### Saturday

#### **Rest / Walking 30min**

#### Sunday

#### **Rest / Walking 30min**

# **Swab Summer Readiness Program Week 2**

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#### **Easy Run**

10-15 min run at easy pace

#### Tuesday

#### **Bodyweight Circuit**

Dynamic Flexibility & Movement Prep followed by....

Pyramid (level 1 - 5)

Pull-ups x 1

Push-ups x 2

Sit-ups x 3

:30 sec plank hold

#### Example:

Level 1 of Pyramid: 1 Pull-up, 2 Push-ups, 3 Sit-ups, :30 sec plank hold Level 2 of Pyramid: 2 Pull-ups, 4 Push-ups, 6 Sit-ups, :30 sec plank hold Level 3 of Pyramid: 3 Pull-ups, 6 Push-ups, 9 Sit-ups, :30 sec plank hold Continue Until Level 5, Rest :30 sec Between Levels

#### Wednesday

#### **Non-Running Workout**

Elliptical, Bike, Swim, etc for 15-20 min See Swim Workout tab for swimming ideas

#### Thursday

#### **Circuit Training**

Dynamic Flexibility & Movement Prep followed by....

Complete the Following Circuit 8x

100 Yard Run

10 Push-ups

20 sit-ups / :20 sec plank hold

30 Bodyweight Squats

Rest:30

#### Friday

#### **Running Workout**

10-15 min run at easy pace

6-7 x 100 meter strides (light jog back to start)

#### Saturday

#### Rest / Walk 30min

#### Sunday

#### Rest / walk 30min

# **Swab Summer Readiness Program Week 3**

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#### **Running Workout**

15-20 min run at easy pace

6-7 x 100 meter strides (light jog back to start)

#### Tuesday

#### **Circuit Training**

<u>Dynamic Flexibility & Movement Prep followed by....</u> Complete 5 Rounds of the Following for Time:

15 Push-ups

:45 sec plank

40 Bodyweight Squats

After the Completion of 5 Rounds, Run an 800m at PFE Race Pace

#### Wednesday

#### **Non-Running Workout**

Elliptical, Bike, Swim, etc for 15-20 min See Swim Workout tab for swimming ideas

#### Thursday

#### **Bodyweight Circuit**

<u>Dynamic Flexibility & Movement Prep followed by....</u>

Pull-up Circuit

1, 2, 3, 4, 5....to Max

15 Seconds Rest Between Each Set or Level of the Pyramid

5 Circuits of the following in order

Reps for Men & (Women)

Push-up x 5 (3)

Crunches x 10

hand release push-ups x 5 (3)

Leg Raises x 10

Slow cadence push-ups x 5 (3)

Sit-ups x 10

Repeat 5 Times (:30 sec rest between)

#### Friday

#### **Running Workout**

15-20 min run at easy pace

6-7 x 100 meter strides on a hill (walk down recovery)

#### Saturday

#### **Optional Easy Run**

10-15 min run at easy pace

#### Sunday

#### Rest

# **Swab Summer Readiness Program Week 4**

#### Monday

#### **Running Workout**

5-10 Min Warm-up
1.5 Mile Time Trial
Rest 5:00
Max plank hold
5-10 Min Cool-Down

#### Tuesday

#### **Non-Running Workout:**

Elliptical, Bike, Swim, etc for 15-20 min See Swim Workout tab for swimming ideas

#### **Bodyweight Circuit**

<u>Dynamic Flexibility & Movement Prep followed by....</u> Pyramid (level 1 - 7)

Pull-ups x 1
Push-ups x 2
Sit-ups x 3

Example:

Level 1 of Pyramid: 1 Pull-up, 2 Push-ups, 3 Sit-ups Level 2 of Pyramid: 2 Pull-ups, 4 Push-ups, 6 Sit-ups Level 3 of Pyramid: 3 Pull-ups, 6 Push-ups, 9 Sit-ups Continue Until Level 7, Rest 30 Sec Between Levels

#### Wednesday

#### **Running Workout**

15-20 min run at easy pace

6-7 x 100 meter strides (light jog back to start)

#### Thursday

#### **Circuit Training**

Dynamic Flexibility & Movement Prep followed by....

For 10 min, each min, On the min Complete the Following:

5 Burpees

5 Push-ups

5 Bodyweight Squats

After the Completion of 10 min Circuit, Run 1 Mile For Time

#### Friday

#### **Medium Effort Run**

5-10 Min Warm-up (.5-1.5 Miles)

3-4 x 3:00 Medium Effort Run (:45 sec rest between reps)

5-10 Min Cool-Down

#### Saturday

#### **Optional Easy Run**

15-20 min run at easy pace

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#### Rest / Walk 30min

# **Swab Summer Readiness Program Week 5**

#### Monday

#### **Easy Run**

15-20 min run at easy pace

6 x 100 Meter Strides on a hill (walk down recovery)

#### Tuesday

#### **Circuit Training**

Dynamic Flexibility & Movement Prep followed by....

Complete 4x Through the Following each round on 5:00

 $400\,\text{meters}$  at PFE Race Pace followed by max rep burppes untill clock hits  $3:\!00$ 

3:00 of 400m run+max rep burppes + 2:00 rest = 5:00 per round

#### Wednesday

#### **Running Workout**

5-10 Minute Warm-Up

2 x 5:00 at Medium Effort, no more than 2:00 rest.

5-10 Minute Cool-Down

#### **Thursday**

#### **Bodyweight Circuit**

Dynamic Flexibility & Movement Prep followed by....

Pull-up Circuit

1, 2, 3, 4, 5....to Max

15 Seconds Rest Between Each Set or Level of the Pyramid

10 Circuits of the following in order

Reps for Men & (Women)

Push-up x 10 (5)

Plank hold:15

Hand release puhs ups x 10 (5)

Leg Raises x 15

Slow Cadence push-ups x 10 (5)

Sit-ups x 10

Repeat 10 Times (:30 sec rest between)

#### **Friday**

#### **Hard Effort Session**

5-10 Min Warm-Up

4x400 meters of a Hard Effort with 2 minutes of light jogging for recovery between. See Pace Chart for goal times

5-10 min Cool-Down (.5-1.5 Miles)

#### Saturday

#### Easy Run / or Fast Paced Walk

20-25 min run at easy pace or Fast Paced Walk 2miles

#### Sunday

#### Rest

# **Swab Summer Readiness Program Week 6**

#### Monday

#### **Running Workout**

5-10 Minute Warm-Up
2 x 6:00 at Medium Effort, 2:00 rest
5-10 Minute Cool-Down

#### Tuesday

#### **Non-Running Workout**

Elliptical, Bike, Swim, etc for 20-25 min See Swim Workout tab for swimming ideas

#### **Bodyweight Circuit**

Dynamic Flexibility & Movement Prep followed by....

Pyramid (level 1 - 10)

Pull-ups x 1

Push-ups x 2

Sit-ups x 3

Plank hold:30 sec

#### Example:

Level 1 of Pyramid: 1 Pull-up, 2 Push-ups, 3 Sit-ups, plank hold: 30 sec Level 2 of Pyramid: 2 Pull-ups, 4 Push-ups, 6 Sit-ups, plank hold: 30 sec Level 3 of Pyramid: 3 Pull-ups, 6 Push-ups, 9 Sit-ups, plank hold: 30 sec Continue Until Level 10, Rest 30 Seconds Between Levels

#### Wednesday

#### **Easy Run**

20-25 Minute Easy Run 5 x :25 Strides

#### Thursday

#### **Circuit Training**

Dynamic Flexibility & Movement Prep followed by....

Complete the Following Circuit as Many Times as Possible in 14 min

:30 Second Plank Hold (on Elbows)

10 Walking Lunges Each Leg (With Weight if Available)

10 Hand Release Push-ups (Belly on Ground, Hands Release Ground Each Time)

5 Standing Continous Broad Jump Leaps

20 Mountain Climbers

#### Friday

#### **Running Workout**

5-10 Minute Warm-Up

6 x 200 Meters at a Hard Effort, :60 rest between each

5-10 min Cool-Down

#### Saturday

#### **Easy Run**

20-25 min run at easy pace

#### Sunday

#### Rest / Walk 30min

# **Swab Summer Readiness Program Week 7**

#### Monday

#### **Running Workout**

5-10 Minute Warm-Up

 $6 \, x$  300 meters at a Hard Effort (Based on PFE time Chart), 2:00 rest 5-10 Minute Cool-Down

#### Tuesday

#### **Circuit Training**

Dynamic Flexibility & Movement Prep followed by....

30 Walking Lunges (30 Steps), 25 Push-ups, 50 Sit-ups

Run 200 meters

25 Walking Lunges (25 Steps), 20 Push-ups, 40 Sit-ups

Run 200 meters

20 Walking Lunges (20 Steps), 15 Push-ups, 30 Sit-ups

Run 200 meters

15 Walking Lunges (15 Steps), 10 Push-ups, 20 Sit-ups

Run 200 meters

10 Walking Lunges (10 Steps), 5 Push-ups, 10 Sit-ups

Run 200 meters

#### Wednesday

#### Plank +Easy Run

Max plank hold

20-25 min run at easy pace

5 x :15 Strides ona Hill

#### Thursday

#### **Bodyweight Circuit**

Dynamic Flexibility & Movement Prep followed by....

Pull-up Circuit

1, 2, 3, 4, 5....to Max

15 Seconds Rest Between Each Set or Level of the Pyramid

10 Circuits of the following in order

: 20 Sec Plank Hold

7 Push-ups

10 Sit-up

7 Push-ups

10 leg raises

5 bupees

(:30 sec rest between)

**Friday** 

#### **Running Workout**

5-10 min Warm-up

10 Minutes as a Medium Effort Run

5-10 min Cool-Down

#### Saturday

**Easy Run** 

20-25 min run at easy pace

#### Sunday

#### Rest / 30min Walk

# **Swab Summer Readiness Program Week 8**

#### Monday

#### Easy Run

25-30 min run at easy pace

#### Tuesday

#### Non-Running Workout

Elliptical, Bike, Swim, etc for 20-25 min See Swim Workout tab for swimming ideas

#### **Physical Fitness Test**

Dynamic Flexibility & Movement Prep followed by....

Execute the Coast Guard Academy Physical Fitness Exam.

Part 1: Begin with Push-ups on a cadence (1 sec up & hold, 1 sec down & hold) for 2:00. Max for Men is 60, Max for Women is 48

Rest 2 minutes

Part 2: Max plank hold - Hold plank up to 4:15

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Part 2: Proceed to Sit-ups. Execute as many Sit-ups in 2:00 as possible. Max is 100 Sit-ups.

Rest 10 minutes

Part 3: Run 1.5 miles as fast as possible.

#### Wednesday

#### **Optional Easy Run**

15-20 min run at easy pace (approx 2-3 Miles)

#### Thursday

#### **Circuit Training**

Dynamic Flexibility & Movement Prep followed by....

100m Run with Descending Pyramid

Start Line - 20 Bodyweight Squats - Then Run 100m

Endline - 10 Burpees - Run back to Start Line 100m Start Line - 18 Bodyweight Squats - Then Run 100m

Endline - 9 Burpees - Run back to Start Line 100m

Start Line - 16 Bodyweight Squats - Then Run 100m

Endline - 8 Burpees - Run back to Start Line 100m

Start Line - 14 Bodyweight Squats - Then Run 100m

Endline - 7 Burpees - Run back to Start Line 100m

Start Line - 12 Bodyweight Squats - Then Run 100m

Endline - 6 Burpees - Run back to Start Line 100m

Start Line - 10 Bodyweight Squats - Then Run 100m

Endline - 5 Burpees - Run back to Start Line 100m

Start Line - 8 Bodyweight Squats - Then Run 100m

Endline - 4 Burpees - Run back to Start Line 100m

Start Line - 6 Bodyweight Squats - Then Run 100m

Endline - 3 Burpees - Run back to Start Line 100m

Start Line - 4 Bodyweight Squats - Then Run 100m Endline - 2 Burpees - Run back to Start Line 100m

Start Line - 2 Bodyweight Squats - Then Run 100m

Endline - 1 Burpees - Run back to Start Line 100m

#### Friday

#### Easy Run

25-30 min run at easy pace (approx 3-4.5 Miles)

#### Saturday

#### Rest / Walk 30min

#### Sunday

Rest

#### Swah Summer Readiness Program Swimming Workouts

#### Notes:

1 Length of the Pool = 25 yards (Example: 50 yd = 2 Lengths, 100 = 4 Lengths)

Equipment: goggles (optional)

Workouts are Novice to Intermeidate Workouts. To Increase Difficulty, Complete a

Workout 2x

#### **Workout Option 1**

Warm-up: 150 yd (6 lengths of the pool continuous; mix up strokes)

4 x 50 yd Freestyle or Front Crawl (:30 sec rest after each 50 yd)

1:00 Rest

1 x 100 yd Freestyle or Front Crawl

1:00 Rest

8 x 25 yd (:15 sec after each 25 yd; choose your stroke)

1:00 Rest

1 x 100 yd Freestyle or Front Crawl

1:00 Rest

4 x 50 yd (:30 sec rest; choose your stroke)

Cooldown 50-100 yd

#### **Workout Option 2**

Equipment: goggles, kickboards

Warm-up: 150 yd any stroke

3 x 50 yd Freestyle or Front Crawl (:20 sec rest after each 50 yd)

3 x 50 yd any stroke, (:20 sec rest after each 50 yd)

3 x 50 yd flutterkick with a kickboard

3 x 100 yd = 25 Fr / 25 OTF / 25 flutter with kickboard / 25 free (1:00 rest between 100's)

25 yd Freestyle or Front Crawl

25 yd Choice of Backstroke, Side Stroke, or Breastroke

25 yd Flutter with Kickboard

25 yd Freestyle or Front Crawl

12 x 25 yd Choose your stroke at easy pace

Cooldown 50-100 yd

#### **Workout Option 3**

Equipment: goggles (optional), kickboards

Warm-up: 150 yd (6 lengths of the pool continuous; mix up strokes)

5 x 25 Freestyle or Front Crawl (:15 sec rest)

5 x 25 Freestyle or Front Crawl (:15 sec rest)

100 Any Kick (only) (:30 sec rest)

100 Freestyle or Front Crawl (:30 sec rest)

100 Any Stroke (arms only) (:30 sec rest)

4 x 75 yd= Swim any stroke hard for the middle 25 yd of each 75 yd (:30 sec rest)

Cooldown 200 yd at easy pace

#### Swab Summer Readiness Program Swimming Workouts

#### Notes:

1 Length of the Pool = 25 yards (Example: 50 yd = 2 Lengths, 100 = 4 Lengths)

Equipment: goggles (optional)

Workouts are Novice to Intermeidate Workouts. To Increase Difficulty, Complete a

Workout 2x

#### **Workout Option 4**

Equipment: goggles (optional)

Warm-up: 200 yd (8 lengths of the pool continuous; mix up strokes)

6 x 50 yd = 25 yd Flutter Kicking only (no Kickboard), then 25 yd Choose your stroke :20 rest

12 x 25 yd = every 3<sup>rd</sup> 25 yd fast (:15 rest)

2 x 150 yd long (:45 rest)

Cooldown 100 yd

#### **Workout Option 5**

Equipment: goggles (optional)

Warm-up: 250 yd (10 lengths of the pool continuous; mix up strokes)

8 x 25 yd Freestyle or Front Crawl (:15 sec rest)

4 x 50 yd Any Kick (only) (:10 sec rest)

2 x 100 yd Freestyle or Front Crawl (:20 sec rest)

1 x 200 yd Alternate Breastroke & Side Stroke each lap (:30 rest)

2 x 100 Freestyle or Front Crawl (:15 sec rest)

4 X 50 yd = 25 yd Any Kick (only) / 25 yd Any Stroke (:15 sec rest)

8 x 25 yd Choose your stroke and swim fast (:10 rest)

#### **Workout Option 6**

<u>Warm-up:</u> 10 min swim loosen up mix up strokes: Crawl, elementary back, sidestroke, breast stroke

#### Tread water:

6 min: 6 x:30 sec arms and legs /:30 sec legs only, hands out of water

#### Swim Set:

20 x 25 yd get out at each end (no ladder)

1-5 Freestyle or Front Crawl

6-10 Side Stroke

11-15 Breast Stroke

16-20 Freestyle or Front Crawl