

The undersigned validates that he/she has completed this plan and has reported run/ruck times and Physical Fitness Assessment (PFA) scores to their recruiter. Bring this completed/signed handbook to SFAS for in-processing.

Signature:
Print Name:
Date received handbook:
Date reporting to SFAS:
Pre-training PFA Score:

Bring this handbook with you when you report to SFAS.



TIP FOR SUCCESS The APFT minimum goal prior to attending SFAS should be 240 in the male 17-21 age group. However, the most successful candidates tend to score 270 or better.



Army Special Forces represents the premier Department of Defense force designed to conduct special warfare. Special Forces Soldiers are specifically selected, trained and educated to shape foreign political and military environments by working with and through host nations, regional partners and indigenous populations. Special Forces provides the United States with a small-footprint option for influencing unfriendly regimes, addressing insurgencies and containing conflicts that could destabilize U.S. allies and partners. To accomplish these missions, SF possesses qualities and capabilities to mix nonlethal and lethal activities designed to shape the environment, deter conflict, prevail in war or successfully conduct a wide range of contingency operations.

Special Forces Soldiers are known around the world as fighters and teachers. They are highly trained and capable of missions ranging from teaching foreign soldiers Infantry tactics to building schools and treating the sick. Experts in their fields, they speak foreign languages so they can build rapport with partners and teach their skills to others. Trained to be resourceful and able to survive behind enemy lines for months if necessary, they are equally at home in the jungle or in arctic climates. They are uniquely qualified to do the jobs no one else can.

Do you really want to be a Special Forces Soldier?

The purpose of this physical training handbook is to assist prospective SFAS candidates to attain and maintain a high state of physical fitness for attendance at the United States Army John F. Kennedy Special Warfare Center and School Special Forces Assessment and Selection.

USAJFKSWCS assessment and training programs are physically and mentally demanding because physical and mental toughness is required of Special Forces Soldiers.

Attendance at SFAS will require you to perform physical tasks such as climbing obstacles, by use of rope, 20-30 feet high, swimming while wearing boots and the Army Combat Uniform, and traveling great distances cross country while carrying a rucksack with a minimum of 45 pounds. Upper and lower body strength and physical endurance are required to accomplish physically-oriented goals on a continuous basis for 24 days. You need to be in excellent shape and be able to carry a rucksack day-after-day. SFAS is an assessment of you. You will not be taught or coached to get through — you must make it on your own strengths.

This handbook outlines an 8-week physical training program based on physical requirements set by 1st Special Warfare Training Group (Airborne). This is the only SFAS physical training plan approved by the USAJFKSWCS Special Forces Branch Proponent.

The program should be started nine weeks prior to your SFAS course start date and is laid out to conduct events in the morning and evenings, with deliberate rest and recovery designated. Whether you do or do not get time from your unit to complete this program, the responsibility to physically and mentally condition your body is yours and yours alone. Work out on your own time if that is all you have. If you go to the field then work on strengthening drills: push-ups, sit-ups, pull-ups, squats (with extra weight) whenever you can.

Do not delay speaking to your local Special Operations Recruiting Battalion recruiter to lock in your SFAS course date.



Go to this link:

http://www.goarmysof.com/specialforces/sfrecruiting.html and click on "Find a Recruiter."



What to expect in physical training

Attaining physical fitness is not an overnight process; the body must go through stages.

First stage: Toughening

During the first two weeks of training the body goes through a soreness and recovery period. When a muscle with a poor blood supply (such as a weak muscle) is exercised the waste products produced by the exercise collect faster than the blood can remove them. This acid waste builds up in the muscle tissue and irritates the nerve in the muscle fiber causing soreness. As the exercise continues the body is able to circulate the blood more rapidly through the muscles and removes the waste materials, which causes soreness to disappear.

Second stage: Slow Improvement

As the body passes through the toughening stage and continues into the slow improvement stage, the volume of blood circulating in the muscles increases and the body functions more efficiently. In the first few weeks improvement is rapid, but as a higher level of skill and conditioning is reached, the improvement becomes less noticeable. The body reaches its maximum level of performance between six and ten weeks. The intensity of the program and individual differences account for the variance in time.

Third stage: Sustainment

The sustaining stage is the stage during which physical fitness is maintained. Although this training plan is designed to be used leading up to your SFAS course date, it is necessary to continue exercising at approximately the same intensity to retain the condition developed. Once a high level of physical fitness is attained a maintenance workout program should begin using the hard/easy workout concept. It should be noted that any plan you decide to follow should offer a taper-off period in the last two to three weeks prior to course attendance. Tapering off affords the body some recovery time and provides a buffer to work through any type of physical issue you might be experiencing.



Special Forces Soldiers are the most physically fit in the Army. If you want to be one...GET IN SHAPE!

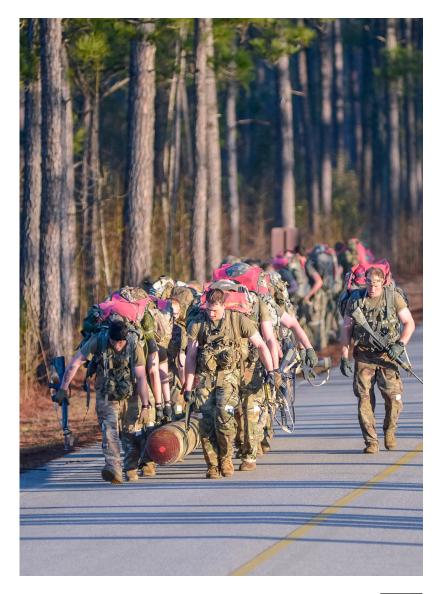
Getting the most out of your training

- **Weather:** Do not let bad weather interrupt your conditioning. If you can't do a ruckmarch, substitute ruck squats, running stairs, both with and without a ruck, weightlifting, etc. Remember, there is no "inclement weather" in SFAS.
- **Technique:** Practice proper rucksack march/walking techniques as shown on the page 10.
- □ Overtraining: Be aware of the signs of overtraining. This eight week preparation plan is grinding by design, learn your body and better understand where you are at physically and mentally in any given moment. For example, a significant decrease in performance or lack of improved performance, muscle soreness that does not go away, sleeping issues, an increase in injury, and/or frequent sickness are all ways in which overtraining can manifest. Should you experience any of these signs, simply back off the prescribed workouts, give yourself an extra rest day, eat some good food, and catch up on hydration.



Proper ruckmarch techniques

☐ Weight of body must be kept directly over feet, the sole of the shoe must be placed flat on ground by taking small steps at a steady pace.
☐ Knee must be locked on every step in order to rest muscles of the egs (especially when going uphill).
☐ When walking cross-country, step over/around obstacles; never step on them.
When traveling up steep slopes, always traverse them; climb in zigzagoattern rather than straight up.
☐ When descending steep slopes, keep the back straight and knees pent to take the shock of each step. Do not lock knees. Dig in with heels on each step.
Practice walking as fast as you can with a rucksack. Do not run with a rucksack as you may injure yourself. When tested you may have to trot, out try not to during training.
☐ A good rucksack pace is accomplished by continuous movement with short breaks (5 min) every 6-8 miles, or every hour in hot weather.
☐ If you cannot ruckmarch then do squats with your rucksack (100 repetitions five times or until muscle failure). To avoid injury to your knees, squat only to the point where the upper and lower leg form a 90 degree pend at the knee.



Warm-up routine

Conduct no less than ten of the following exercises/stretches for 15-20 repetitions or 25-30 second holds, prior to daily events: Calf Raise ■ Bird Dogs ■ Calf Stretch Dead Bugs ■ Front Plank Ankle Mobilization ■ Body Weight Squat ■ Side Plank Ouad Pull Quadruped Rotation ■ Back Roll to "V" Sit Push Ups ■ Double Leg Bridge ■ Bush Whackers ■ Pigeon Stretch ■ Back Slaps ■ 1st Base Stretch Scap Push Ups ■ Mountain Climbers Stretch Arm Circles Conduct the following movement drills, for 10-20 meters each, prior to daily events: ■ Walking Toe Touch ■ Walking Cradle ■ Walking Lunge ■ High Knees ■ Walking Lateral Lunge ■ Butt Kicks

Stretch and Mobility Drills

Every week you will conduct one or more Stretch and Mobility drill routines for approximately 45-60 minutes each iteration. Each exercise should be done for 10 repetitions, every stretch held for 30 seconds. Perform entire routine 2-3 times though. Routine as follows:

Jumping Jacks	Messier Squat
Seal Jacks	Leg ABC's
Cross Jacks	Front Plank
Ankle Mobilization	Side Plank
Calf Stretch	Glute Bridge
1 Leg Knee Touch	Floor Slides
1st base stretch with heel pull	Superman Position Y/T/L/A
Hydrants	Sleeper Stretch
Side Lying Adduction/Abduction	Cat/Camel
Groiners	Kneeling Lat Stretch
½ Kneeling Groin Stretch	Partner Pec Stretch
Pigeon Stretch	Jumping Jacks
Jumping Jacks	Seal Jacks
Seal Jacks	Cross Jacks
Cross Jacks	Mountain Climber Stretch



Conduct a SF Physical Fitness Assessment (PFA);

Maximum performance in all events, see what you can do. Record your score, now get ready for the next eight weeks!

Event	Passing Min. Score (gender-neutral)	Your Score Date
Push-ups	49	
Sit-ups	59	
2-mile run	15:12	
Pull-ups (from a dead hang)	6	

PM		Warm-up (page 12)
	5 round	s for time:
		5 x pull-ups
		7 x dips
		10 x burpees
		1 x rope climb, 15 feet
		50 meter lunge walk
		Stretch

Week 1, Day 2



Forced 3 mile ruckmarch, 35 lb. dry (without drinking water) rucksack, along a road or cross-country. (*Wear freshly broken-in boots with thick socks and remember to practice proper ruckmarch techniques. page 10.*)

		,,	
		Road goal: 45 minutes; Cross country goal: 1 hour	
PM		Warm-up (page 12)	
	3 rounds	s of:	
		30 seconds of push-ups	
		30 seconds of sit-ups	
		30 seconds of pull-ups; (Hang on the bar as you approach muscle failure, but don't feel bad taking breaks; stop the clock if you need to)	
		Stretch	
Week 1, Day 3			
AM)		Stretch and mobility drills, 60 minutes (page 13)	

Rest

Week 1, Day 4

AM)		3 mile run, 8-9 minute per mile pace; (This is an opportunity to break-in some new running shoes if you need to swap out your old ones.)
	After the	e run, knock out three rounds for time:
		8 x air-squats
		8 x burpee pull-ups; (A single burpee repetition jumping into a single pull-up)
		25 meter lunge walk
PM		Warm-up (page 12)
>		10 x 1 minute plank hold
		100 x push-ups; (Do this straight through and utilize authorized PFA rest position as necessary)
		Stretch

Week 1, Day 5



Forced 5 mile ruckmarch, 35 lb. dry (without drinking water) rucksack, along a road or cross-country. (Wear freshly broken-in boots with thick socks and remember to practice proper ruckmarch techniques, page 10.)

Road goal: 1 hour, 15 minutes; Cross country goal: 1 hour, 40 minutes
Stretch and mobility drills, 60 minutes (page 13)

|--|

(AM)		Warm-up (page 12)	
~	Super se	et, three times through:	
		8 x explosive push-ups (1-2 claps)	
		30 x weighted sit-ups (10-20 lbs)	
	Then do	:	
		4 x 20 weighted lunge walk (20-40 lbs), each leg	
		Stretch	
PM		Rest	
Week 1, Day 7			
AM		Recovery	
PM		Recovery	

Week 2, Day 1 Total mileage this week: 16.5 miles 2 mile run, easy, do not worry about your pacing, just get out there and run. Army Combat Fitness Test Conditional Drills Day 1 1 x round for familiarization: 10 x alternate staggered squat jump, four count 50 meters x forward lunge 10 x power jump, four count 10 x tuck jump, four count П 10 x T push-up, eight count 3 x quadraplex, 60 seconds 300 meter shuttle run, 4 x 75 meter iterations 3 x bent leg raise, 60 seconds 10 x alternate grip pull-up *For all exercise demonstrations, reference the Army's official ACFT website at https://www.army.mil/acft/

Stretch

Week 2, Day 2

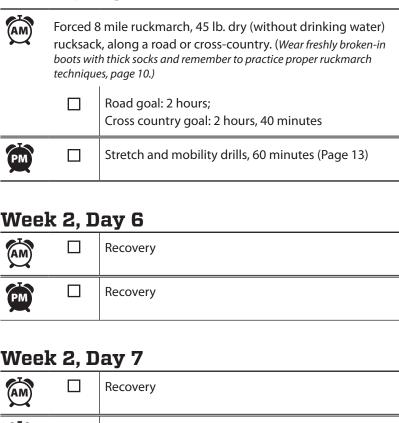
(AM)		800 meter warm-up
		12 x 200 meter interval run, 1:2 work to rest ratio; For example, if you run a 5 minute 1000 meter interval, you would then take 10 minutes active rest; during active rest, its best to keep moving and actively concentrate on lowering your heart rate.
		Interval Pace:
		1: 2:
		3: 4:
		Heart Rate:
		800 meter cool-down
PM		3 x sets squats with 35 lb. rucksack, 50 reps per set
		3 x 20 4-count flutter kicks
Wee!	k 2, D	ay 3
AM		Stretch and mobility drills, 60 minutes (page 13)
PM		Rest

Week 2, Day 4

AM		4 mile run, 8-9 minute pe	er mile pace
		Pace:	
		Mile 1:	Mile 2:
		Mile 3:	Mile 4:
		Heart Rate:	
Keep track of your mile paces from here through the remainder of the preparation plan and compare as you go. Also, keep track of your heart rates upon completion of runs to better gauge your progression and physical exertion.			
Calculate	For some examples of pacing and setting goals, use the McMillan Running Calculator at https://www.mcmillanrunning.com/. Simply type in your end state goal and your current status and it will provide pacing goals to meet.		
PM		Warm-up	
	3 rounds	s of:	
		35 seconds of push-ups	
		35 seconds of sit-ups	
		35 seconds of pull-ups	
	*Rost as	needed in hetween sets	

Stretch

Week 2, Day 5



Recovery

Wee]	k 3, D	ay 1 Total mileage this week: 23 miles
AM)		3 mile run, easy, do not worry about your pacing, just get out there and run.
PM		Warm-up (page 12)
		3 x sets of squats with 45 lb. rucksack, 50 reps per set
	3 rounds	s of:
		30 x flutter kicks, four count
		30 x mountain climbers
		30 x reverse lunge, 15 each leg
		Stretch

Week 3, Day 2

(AM)		800 meter warm-up	
~			runs; (#1, 3, and 5 – rest for 3 nd 4 – rest 90 seconds in between)
		Interval Pace:	Rest period:
		1:	3 minutes
		2:	90 seconds
		3:	3 minutes
		4:	90 seconds
		5:	3 minutes
		Heart Rate:	
		800 meter cool-down	
PM		Warm-up (page 12)	
	4 rounds	s of:	
		40 seconds of push-up	os
		40 seconds of sit-ups	
		40 seconds of pull-ups	5
	*Rest as n	eeded in between sets	
		Stretch	

week 3, Day 3		
AM		Stretch and mobility drills, 60 minutes (page 13)

Rest

Week 3, Day 4

AM		5 mile run, 7-8 minute per mile pace Heart Rate:
PM		Warm-up (page 12)
	4 round	s for time:
		25 x pull-ups
		25 x sit-ups
		25 x push-ups
		25 x air squats
		25 meter lunge walk
		Stretch

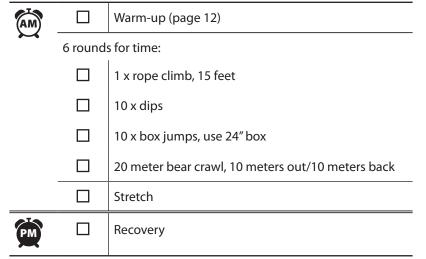
Week 3, Day 5



Forced 10 mile ruckmarch, 45 lb. dry (without drinking water) rucksack, along a road or cross-country. (*Wear freshly broken-in boots with thick socks and remember to practice proper ruckmarch techniques, page 10.*)

Road goal: 2 hours, 30 minutes; Cross-country goal: 3 hours, 20 minutes
Stretch and mobility drills, 60 minutes (page 13)

Week 3, Day 6



Wee	k 3, D	ay 7
AM		Recovery
PM		Recovery
Wee	k 4, D	ay 1 Total mileage this week: 24.5 miles
AM		6 mile run, 7-8 minute per mile pace Heart Rate:
PM		Warm-up (page 12)
	5 round	s for time:
		10 x pull-ups
		10 x dips
		15 x burpees
		1 x rope climb, 15 feet
		50 meter lunge walk

Stretch

Week 4, Day 2

(AM)	800 meter warm-up
	4 x 1000 meter interval run, 1:2 work to rest ratio; For example, if you run a 5 minute 1000 meter interval, you would then take 10 minutes active rest; during active rest, its best to keep moving and actively concentrate on lowering your heart rate.
	Interval Pace:
	1: 2:
	3: 4:
	Heart Rate:
	800 meter cool-down
PM	mbat Fitness Test Conditional Drills Day 2 d for familiarization:
	10 x alternate staggered squat jump, four count
	50 meters x forward lunge
	10 x power jump, four count
	10 x tuck jump, four count
	10 x T push-up, eight count
	3x quadraplex, 60 seconds
	300 meter shuttle run, 4 x 75 meter iterations
	3 x bent leg raise, 60 seconds
	10 x alternate grip pull-up
	Stretch

Week 4, Day 3		
AM		Stretch and mobility drills, 60 minutes (page 13)
PM		Rest
Wee	k 4, D	ay 4
(AM)		3 mile run, 7-8 minute per mile pace
		Heart Rate:
PM		Warm-up
•-•	4 round	s of:
		45 seconds of push-ups
		45 seconds of sit-ups
		45 seconds of pull-ups
	*Rest as n	needed in between sets

Stretch

Week 4, Day 5



Forced 12 mile ruckmarch, 55 lb. dry (without drinking water) rucksack, along a road or cross-country. (*Practice proper ruckmarch techniques, page 10.*)

Road goal: 3 hours; Cross-country goal: 4 hours
Stretch and mobility drills, 60 minutes (page 13)

Week 4, Day 6

AM	Recovery
PM	Recovery

Week 4, Day 7

AM	Recovery
PM	Recovery

Week 5, Day 1

Total mileage this week: 24 miles



Conduct a SF Physical Fitness Assessment (PFA);

Maximum performance in all events, see what you can do. Compare your score against the first PFA you took *Week 1*, *Day 1*, but remember you are fairly broken down at this point — this PFA should be a painful one where it sets in the training plan.

Event	Passing Min. Score (gender-neutral)	Your Score Date
Push-ups	49	
Sit-ups	59	
2-mile run	15:12	
Pull-ups (from a dead hang)	6	

	3 x sets of squats with 55 lb. rucksack, 50 reps per set
_	1 3 x 3cts of squats with 33 lb. ruchsuch, 30 reps per set





TIP FOR SUCCESS The APFT minimum goal prior to attending SFAS should be 240 in the male 17-21 age group. However, the most successful candidates tend to score 270 or better.

Wee	k 5, D	ay 2
AM		4 mile run, 7-8 minute per mile pace Heart Rate:
PM		Warm-up
	4 round	s of:
		60 seconds of push-ups
		60 seconds of sit-ups
		60 seconds of pull-ups
	*Rest as n	needed in between sets
		Stretch
Wee	k 5, D	ay 3
AM		Stretch and mobility drills, 60 minutes (page 13)
PM		Rest

Week 5, Day 4

(AM)		800 meter warm-up
~		3 x 1 mile intervals, actively rest 5 minutes in between, concentrate on breathing and reducing heart rate.
		Interval Pace: Heart Rate:
		1:
		2:
		3:
		800 meter cool-down
		Stretch
PM		Warm-up (page 12)
V = V	As many	rounds as possible in 20 minutes:
		5 x pull-ups
		10 x push-ups
		15 x sit-ups
		20 x air squats
		Stretch

Week	5, I	Day	5
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VVCC	х э, р	ay J	
AM	Forced 14 mile ruckmarch, 55 lb. dry (without drinking water) rucksack, along a road or cross-country. (<i>Practice proper ruckmarch techniques, page 10.</i>)		
		Road goal: 3 hours, 30 minutes; Cross-country goal: 4 hours, 40 minutes	
PM		Stretch and mobility drills, 60 minutes (page 13)	

Week 5, Day 6

AM	First roun	Warm-up (page 12) ng and descending rep scheme. d = 10 burpees and 1 pull-up, second round = 9 burpees and second round.
		Burpees: 10-9-8-7-6-5-4-3-2-1
		Pull-ups: 1-2-3-4-5-6-7-8-9-10
PM		Rest

Week 5, Day 7

AM	Recovery
PM	Recovery

Wee	k 6, D	ay 1 Total mileage this week: 28 miles
(AM)		6 mile run, 7-8 minute per mile pace
\sim		Heart Rate:
PM		Rest
Wee	k 6, D	ay 2
AM		Stretch and mobility drills, 60 minutes
PM		ombat Fitness Test Conditional Drills Day 3 d for familiarization:
		10 x alternate staggered squat jump, four count
		50 meters x forward lunge
		10 x power jump, four count
		10 x tuck jump, four count
		10 x T push-up, eight count
		3 x quadraplex, 60 seconds
		300 meter shuttle run, 4 x 75 meter iterations
		3 x bent leg raise, 60 seconds
		10 x alternate grip pull-up
		Stretch

Week 6, Day 3 | 4 mile run, 7-8 minute per mile pace | Heart Rate: | | | Rest | | | Rest | | | Week 6, Day 4 | | | Stretch and mobility drills, 60 minutes (page 13) | | Warm-up (page 12) | | | 3 x sets of squares with 55 lb, rucksack, 50 reps per set.

PM		Warm-up (page 12)
		3 x sets of squats with 55 lb. rucksack, 50 reps per set
	4 x sets:	
		30 x flutter kicks, four count
		30 x mountain climbers
		30 x reverse lunge, 15 each leg
		30 x leg raises
		30 x raised leg splits
		Stretch

Week 6, Day 5		
AM		Rest
PM		Stretch and mobility drills, 60 minutes (page 13)
Wee	k 6, D	ay 6
(AM)	water) r	18 mile ruckmarch, 55 lb. dry (without drinking ucksack, along a road or cross-country. (<i>Practice proper the techniques, page 10.</i>)
		Road goal: 4 hours, 30 minutes; Cross-country goal: 6 hours
PM		Rest
Wee	k 6, D	ay 7
AM		Recovery
		·

Recovery

Wee	k 7, D	ay 1 Total mileage this week: 15 miles
(AM)		3 mile run, 7-8 minute per mile pace
\sim		Heart Rate:
PM		Rest
Wee	k 7, D	ay 2
AM		Stretch and mobility drills, 60 minutes (page 13)
PM		Warm-up (page 12)
		3 x sets of squats with 55 lb. rucksack, 50 reps per set
		5 x sets, 30 x flutter kicks, four count
	Then do	3 rounds of::
		30 x mountain climbers
		30 x reverse lunge, 15 each leg
		30 x crunches
		30 x leg raises
		Stretch

Week 7, Day 3

PM	Rest
	800 meter cool-down
	Interval Pace: Heart Rate:
	12 x 200 meter interval, 1:2 work to rest ratio
(AM)	800 meter warm-up

Week 7, Day 4

AM)		Stretch and mobility drills, 60 minutes (page 13)					
PM		Warm-up					
	3 round	nds for time:					
		800 meter run					
		20 x pull-ups					
		Stretch					

Week 7, Day 5



Forced 8 mile ruckmarch, 55 lb. dry (without drinking water) rucksack, along a road or cross-country. (*Practice proper ruckmarch techniques page* 10.)

ickmarc	ckmarch techniques, page 10.)				
	Road goal: 2 hours; Cross country goal: 2 hours, 40 minutes				
	Stretch and mobility drills, 60 minutes (page 13)				

Week 7, Day 6

(AM)	Warm-up (page 12)				
\searrow	Using a 20 pound wall-ball (any type), alternate wall balls and running, for time:				
	10 x wall-balls > 100 meter run				
	9 x wall-balls > 100 meter run				
	8 x wall-balls > 100 meter run				
	7 x wall-balls > 100 meter run				
	6 x wall-balls > 100 meter run				
	5 x wall-balls > 100 meter run				
	4 x wall-balls > 100 meter run				
	3 x wall-balls > 100 meter run				
	2 x wall-balls > 100 meter run				
	 1 x wall-walls > 100 meter run				
	Stretch				
PM	Rest				
	·				

week	week 7, ра у 7						
(AM)		Recovery					
PM		Recovery					
Week	: 8, D	ay 1 Total mileage this week: 11 miles					
AM		4 mile run, 7-8 minute per mile pace Heart Rate:					

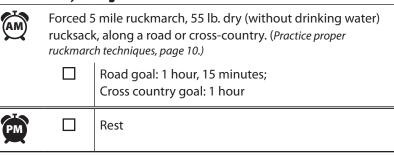
Rest

Week 8, Day 2

Rest

	, -	, -				
AM)		Stretch and mobility drills, 60 minutes (page 13)				
PM	Army Combat Fitness Test Conditional Drills Day 3 1 x round for familiarization:					
	10 x alternate staggered squat jump, four count					
		50 meters x forward lunge				
		10 x power jump, four count				
		10 x tuck jump, four count				
		10 x T push-up, eight count				
		3 x quadraplex, 60 seconds				
		300 meter shuttle run, 4 x 75 meter iterations				
		3 x bent leg raise, 60 seconds				
		10 x alternate grip pull-up				
		Stretch				

Week 8, Day 3



Week 8, Day 4

AM	Stretch and mobility drills, 60 minutes (page 13)
PM	Rest

Week 8, Day 5

CI
(AM)
(AW)
\sim

Conduct a SF Physical Fitness Assessment (PFA); Maximum performance in all events, see what you can do). Compare your score against the first PFAs you took *Week 1* and *Week 5*. Your scoring during this PFA should mark a dramatic improvement. It should be noted, data correlation has proven a higher PFA score equals a higher chance of success at SFAS.

A lack of physical preparation is the #1 eliminator of SFAS candidates!

Event	Passing Min. Score (gender-neutral)	Your Score Date
Push-ups	49	
Sit-ups	59	
2-mile run	15:12	
Pull-ups (from a dead hang)	6	

Stretch and mobility drills, 60 minutes (page 13)

This is the end of the eight week plan, you should relax next week before your SFAS start date. If you are not headed to SFAS yet, for any reason, do not stop now. Continue to develop and follow a sustainment program grounded in this preparation plan's core of running, rucking, and PFA events.

~ De Oppresso Liber ~



U.S. ARMY JOHN F. KENNEDY SPECIAL WARFARE CENTER AND SCHOOL

The Special Operations Center of Excellence -

SELECTED!



BE PREPARED FOR THE U.S. ARMY SPECIAL FORCES SELECTION & ASSESSMENT COURSE

"LEARN TO USE YOUR MIND AS A WEAPON"

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Introduction.

Welcome to "Selected!". In this program we will be helping you to achieve the standards required to enable you to pass the U.S. Army Selection and Assessment course.

"Selected!" consists of a DVD pack and a supporting E-book. The DVDs and book contain exercises, workouts, training runs, training marches, workout schedules and educational material to better prepare you for the challenges of the Selection and Assessment course.

There are two distinct reasons that applicants might be unsuccessful at the Selection and Assessment course. First, they may be physically unprepared for the challenges of the course. Second, they suffer injuries – many of which could have been which could have been avoided – that prevent them from completing the course successfully.

How to use this course.

A very successful Olympic running coach once said that the better prepared athlete would always beat the faster athlete. We think he's right. In the US Army Special Forces selection and assessment course you may be competing for selection against faster or stronger servicemen. But, if you have completed this course, done the workouts and absorbed the educational material – and put into practice what you have learned – you will be one of the best prepared applicants and more likely to succeed.

Is this course designed to make you a super-soldier? No, we have plenty of time for that later. It is specifically designed to fully prepare you to meet the physical challenges you will face at the US Army Special Forces selection and assessment course, and to avoid or overcome some of the challenges that have defeated some of those who have gone before you.

This course is twelve weeks long. Think of it as a series of coached workouts peaking you for a major event. Although you may be tempted to think that more is better, but it is not. Do only the assigned workouts, and, in order. If you do more, you will harm the positive adaptation, or changes in your body that the workouts are designed to bring about. It is an unfortunate scientific fact that your body only adapts from exercise when it is resting, not when it is doing. So don't hurt your chances by trying to add more workouts to those we have prescribed.

Your coaches.

Anthony C. "Woofie" Humpage.

Coach Woofie has completed ultramarathons at 50 kilometer, 50-mile and 100-mile distances, iron-



distance triathlons (swim 2.4 miles, cycle 112 miles and run 26.2 miles) and orienteering events up to 24 hours in duration. He helps athletes train injury-free, stay that way, and successfully compete in extreme ultradistance and multi-day events. A veteran of the Badwater ultramarathon medical team, Coach Woofie is an expert in performing in hostile environments and hydration and electrolyte management. He is a Certified Strength and Conditioning Specialist and a USA Triathlon Certified Coach.

Josh Henkin

Josh Henkin is a graduate of Arizona State University where he received his degree in



Exercise Science. For the past fifteen years Josh has worked in the Strength & Conditioning field where he has worked with professional athletes as well as Navy Seals, S.W.A.T. units, and fire departments. He has extensive experience working with low back injuries, hip replacements, and shoulder surgeries.

For the past seven years Josh has been owner of Innovative

Fitness Solutions, LLC in Scottsdale, Arizona. Besides running his exclusive training center, Josh developed Sandbag Fitness Systems and the Ultimate Sandbag. Sandbag Fitness Systems is the first system to implement a systemized method of implementing sandbag training to the Strength & Conditioning field. His Ultimate Sandbag has quickly gained worldwide notice as the best sandbag on the market and one of the hottest training tools.

His work with Sandbag Fitness Systems and the Ultimate Sandbag has made Josh one of the most sought out Strength Coaches in the field. Josh has lectured worldwide on his system of training and his educational programs have become a gold standard in the industry:

"As a Sports Performance Coach and US ARMY Veteran I am very particular when I make an investment in my fitness and training equipment. One thing that I can say is first and foremost is that nothing comes close to the Ultimate Sandbag and YES that even means the military issue duffel bags. The stitching on the bags far exceeds military standards and there was a lot of thought and planning in the design, function, and durability of this bag. I ordered the "Advanced Package Sandbag and I am enjoying the quality of instruction of the "High Octane DVD" and the easy to understand format. Within minutes you can take a novice and get them results and have them seeing the benefits of

sandbag training. I train mainly women in my "NO BS NYC Boot Camps" and I must say they are very happy and get a strong sense of self confidence when they do the same type of workouts that pro MMA fighters or other athletes are doing. If you didn't get the point of the mini biography I just wrote basically I am saying the Ultimate Sandbag and High Octane DVD package are the best resources to have in your fat loss or performance training tool kit. Thanks Josh for putting out a quality product. I will be getting another in a few short weeks. Can you believe my mom wanted the Ultimate Sandbag as a Mother's Day present...crazy huh?"

THE SELECTED FITNESS PROGRAM

Working with tactical athletes is both an honor and privilege. Coaching men and women that put themselves on the line for us every day is something that should be taken with the utmost focus and attention to detail ourselves

Over the past fifteen years I have worked with all types of tactical athletes; SWAT units, firefighters, Special Forces personnel, and many more. It seemed that many were drawn to the idea of functional fitness that I have always preached. More important than just performing functional fitness was truly identifying their needs and providing training that truly addressed their needs

What is Functional Fitness?

Functional training is a term that has been thrown around as many common "buzz" words. Some may simply define functional fitness as improving fitness for everyday life. While this simplistic definition may be appropriate in some cases we want to be more specific. Functional fitness is the development of many fitness qualities such as; maximal strength, strength-endurance, mobility, flexibility, power, speed, and agility to allow for enhanced performance for specific demands. In the end, functional fitness for the tactical athlete means training that improves their performance in the field.

This means having the ability to exhibit high levels of strength in light of fatigue and compromised situations (i.e. lack of sleep, having heavy equipment on, etc.). This also means being able to move efficiently and quickly to deal with a great variety of situations and oppositions. Lastly, functional fitness for the tactical athlete requires them to be resilient to injury under all the varying circumstances they may encounter in the field.

The demands on the tactical athlete may be the most unique to anyone performing physical training because the situations where their physical fitness may be tested can often be highly unpredictable and room for error is very low.

How to Create Functional Fitness

The tactical athlete faces the challenge of being well rounded in all aspects of fitness. Not only do tactical athletes have to be complete, they must be able to demonstrate much of their fitness in comprised situations. That is why the "Selected" program was developed.

There are many forms of fitness training and selecting the right methods and tools are vital to the success of any program. Analyzing both the needs and tests that special forces applicants would require, it was determined that two training implements would be at the foundation of our program. These two tools would be the TRX suspension system and "The Ultimate Sandbag".

These two training tools each offer some unique advantages for the tactical athlete. The TRX offers an ability to add both complexity and load to traditional bodyweight movements that are very familiar in most forms of military training and testing. By being able to load the body without too much weight on the spine we can build strength without risking greater injury. In addition, we can make standard bodyweight exercises that many can perform high repetitions on into maximal strength drills that will challenge the strongest of athletes.

Adding complexity also teaches the tactical athlete how to move more efficiently to develop not just strength, but dynamic flexibility as well which is vital for performance. We will be using the TRX not to just build strength in the common bodyweight movements, but also to strengthen weak links that typically get injured during tactical training.

The "Ultimate Sandbag" was designed with hardcore training in mind. For years, tactical athletes have utilized duffel bags as training devices. However, this homemade sandbag lacks great versatility and strength. With multiple handle attachments and an easy loading and unloading system, the "Ultimate Sandbag" is designed for over 300 different exercises that challenge the body as a unit and develops great strength and endurance.

What makes the sandbag training so special for tactical athletes is the unstable nature of the sandbag. Utilizing unstable implements requires the use of more muscles and this quickly leads to greater strength gains and more resiliency to injury. Training with sandbags has long been a preferred method of strength training by wrestlers and martial artists alike.

These great athletes realized that sandbags allowed them to train in specific patterns and motions that were closely related to their sports. The shifting of the sandbags gave them a chance to train to the closest thing to a live opponent. This is the very same reason they are such a necessary training tool for the tactical athlete.

The TRX and "Ultimate Sandbag" are two perfect tools because they also work within the challenges of tactical preparation programs. In many situations the tactical athlete may be in the field or lack the perfect training environment. These two tools are highly adaptable to any situation that the tactical athlete may find themselves in. In addition, these tools are perfect for team or unit training in groups. They are easy to modify and adjust for varying fitness levels or orthopedic limitations.

Common Mistakes in Tactical Athlete Training

The tactical athlete should and needs to be trained like any other athlete. The problem with many programs set forth by different organizations is they don't separate the special needs and considerations that the tactical athlete possesses. Below is a discussion of some of the most common mistakes that occur in tactical athlete preparation.

Evaluate: Not just the needs of the position, but the current state of the individual. The fitness and orthopedic health of the individual can vary greatly! A new cadet versus a veteran can be very different and assessing their current fitness and health are essential starting points. Since fitness testing may only occur during the entrance period of an organization, fitness may be greatly different for those that have spent considerable time in the field. There is also a need to develop testing protocols that are relevant to the needs of the job and can be measurable in both large group and individual settings.

In addition, we must separate the ideals of training for long-term longevity in the military and training for testing. Just as with any athlete these two sometimes conflicting concepts can be blended if proper analysis of both situations are made.

Common Injuires: Many of these athletes have common injuries just like any other athlete. Low back injuries, cardiac problems, overuse injuries are areas that need to be addressed by the fitness program. Sometimes the best way to increase performance is to decrease injuries.

A Balanced Fitness Program: Although there are many fitness programs that state they demonstrate balance in their programs, they often overemphasize a single component. Most often this is endurance aspect of training and other attributes are missed because of the mindset of having to "beat up" the tactical athlete. Developing movement skills, flexibility, and strength in extreme ranges of motion are all important considerations of the fitness program. Yes, I am sorry there will also be a need for both aerobic and anaerobic training.

Analyzing Strength: To say someone is "strong" is about as vague of term as one can use. Strength has be relevant to the demands of the sport or job. Many tactical athletes completely ignore vital aspects of strength such as isometric strength that is so important in the proper performance of their job. More time developing certain types of strength can be more advantageous for the tactical athlete both because of the combative side of the job as well as the time spent in specific postures.

Recovery: The most challenging part of working with tactical athletes is the extreme demands they are placed under by long work hours and often times of very little sleep. Making recovery a priority will help many of the "overexertion" problems that often victimize the tactical athlete. Time away from work may be best spent on specific recovery techniques rather than performing intensive training.

How is "Selected" Different?

"Selected" was designed to address all the issues that face the tactical athlete and their preparation for Special Forces. We have blended modern science and experience working with hundreds of different tactical athletes to create a program that will not only enhance performance during testing, but in the field as well. This program is also specially designed to prevent the

common injuries that are unique to tactical athletes and hinders their ability to reach their potential.

A program designed for Special Forces applicants would not be complete if we didn't address all aspects of preparation. This includes, foot care, hydration, hiking/running programs, and fitness programs.

This section is specifically addressing the fitness needs of tactical athletes and the programs are included later in this manual.

Reading the "Selected Fitness Programs"

The "Selected" Program is designed to be an easy to follow, comprehensive program to address the specific needs of the Special Forces applicants. There are twelve weeks involved in this program where every workout is different. This is not random assignment of exercises or training variables. Every workout builds upon the other and should be performed in the order they are written.

The letters by each exercise refers to the order in which the exercises are to be performed and groups specific exercises together. For example, if A1. Shoulder Squats and A2. Chin-ups are listed together it means these two movements should be performed in an alternated manner. Meaning, one set of Shoulder Squat and then rest the prescribed interval and then one set of Chin-ups.

Sets & Reps

There are times that sets and repetitions schemes are listed in a range. For example, 3-4 sets, or 8-12 repetitions. This is done for several reasons. The first being a way for the tactical athlete to gage their readiness to train. Because of the unpredictable nature of being a tactical athlete there may be time where there is sleep deprivation or extreme stress that may negatively impact the nervous system.

This is a self-regulating system of recovery. On days that the athlete feels strong and energetic they can perform the higher end of the range. During times where fatigue and other stresses may wear out the athlete the lower range can be used. This allows for consistent and effective training to always occur without the risk of overtraining.

These training ranges also work very well with our training tools. It is impossible to simply increase microloading with the TRX and Ultimate Sandbag (increase weight by very small increments), we can create other measures of very small progress by changing the repetitions or sets, even the rest intervals can be manipulated to result in another version of microloading. This can by means of altering leverage, hand position, or placement of the load.

Rest Intervals

Rest intervals are the lost component to many fitness programs. In our "Selected" program they are key for building the fitness foundation that is going to be very important in progress and variation. In general, the rest intervals are quite short (45-60 seconds), this is to help build tolerance to anaerobic training that will be challenged in many of the standard fitness tests. The shorter rest intervals are helpful because fatigue can be specific, many situations the athlete will perform an upper body dominant drills supersetted with a lower body drill. This helps manage fatigue, build conditioning, and creates an efficient training program.

It is not recommended to go below the prescribed rest intervals as they will impede strength increases and prevent the proper recovery. Instead we advise challenging the load of the exercise, or the perform the higher end of repetitions.

Where to Start?

Choosing the right starting point is critical in getting the most out of the "Selected" training program. Since fitness levels can even vary greatly among tactical athletes, not every athlete will begin at the same point in the twelve weeks.

We recommend everyone start with "Day 1" as to evaluate their current level of fitness. If during any of the workouts an exercise may seem too easy certain adjustments may be made.

TRX Adjustments: The TRX can be made more challenging simply by move the leverage a higher level. For example, during the body row the closer to the unit one moves the more difficult the movement becomes.

Another simple modification to a TRX exercise is to move to a more difficult version. For example, if suspended with two feet is too easy then moving to one foot suspended, or another version of the push-up is an acceptable modification. (See table in push-up section for information on push-up variations).

Ultimate Sandbag Adjustments: Making adjustments to the Ultimate Sandbag is very easy, there are three different strategies.

- 1. Handle Options: The Ultimate Sandbag offers three options, parallel handles, rolled side flaps, and grabbing onto the sandbag itself.
- 2. Loading: The great advantage of the Ultimate Sandbag over homemade versions is that one can quickly load and unload the sandbags through the use of the interior filler bags. There different sizes can create incremental loading or more significant loads.
- 3. Holding Position: Reviewing the patterns of holding certain holding positions change the leverage so that they may feel more challenging even if the load has not been altered.

Push-up Training

Achieving success in the push-up is far more than having a strong chest or arms. Learning how to integrate the entire body into the movement will result in superior performance in this drill. Several cues can benefit the tactical athlete in both their training for and what they achieve from the push-up



Push-up Mistakes

Having the push-up become an effective exercise requires understanding of what not to do, as much as what to do correctly in its performance.

Common Training Errors

Leading With The Head

Hands Not Placed Under The Shoulders

Elbows Flare Away From The Body

Allowing The Hips To Drop During The Movement

Relaxed Lower Body



Picture to the left demonstrates some of the common faults of the push-up especially as fatigue accumulates.

Performing the Perfect Push-up

A well performed push-up trains the entire body, especially the trunk. Being aware of the influence of the other parts of the body in the push-up is crucial in decreasing injury, improving performance, and progressing.

The Perfect Push-up

Hands Underneath the Shoulders

The Head Should Remain In Alignment With Upper and Lower Back

Squeeze The Glutes

Pull The Shoulders Back and Keep The Elbows No Further Than 45 Degrees Away From The Body

Push Through Underarm and Keep Even Pressure On The Hands

Maintain Alignment Of The Entire Body

Push-up Progressions

Most tactical athletes make the mistake of only trying to progress only by performing more repetitions. While this philosophy has a place, used exclusively it can cause injury and stagnation. Other methods of progression will be used throughout this program to improve results faster and minimize injury.

Decreasing Rest Intervals: Performing quality repetitions with minimal rest between sets can increase strength endurance faster than trying to complete the same volume in one set.

Rest-Pause Method: Improving specific aspects of the lift can increase one of the main parts that most fail in, isometric strength. Most great lifters will use this method to blast through training plateaus and this same method can be used for bodyweight movements.

Interval Sets: Performing timed sets allows the tactical athlete to focus on pace rather than repetitions. Often this helps the athlete find the most efficient path to performing the most number of repetitions.

Ladders: Utilizing ladders of descending or ascending repetitions help build endurance without compromising the quality of the repetition. Such an example would include performing the clean and press exercise with 1 repetition, then 1 breathe, then 2 repetitions, then 2 breathes, and so until the ladder is completed. We can minimize the resting portion by alternating two exercises and rest is not taken until the complete ladder is finished.

Manipulating Leverage: Varying the leverage position of the body can replicate the same effect of adding load while still stimulating the most vital muscles in the trunk.

Overhead Lifting: It may seem odd that performing another lift would help the training of the push-up, but overhead lifting helps range of motion of the shoulder joint as well strengthens the trunk and the hips in a synergistic manner.

Push-up Progressions
Standard Push-up
Push-up One Foot Elevated
Spider Push-up
Push-up One Leg Suspended
Push-up Two Legs Suspended
Push-up to Knee Tuck
Push-up to Pike
Rotational Push-up
Push-up with One Arm Suspended
Push-up with One Arm Suspended Moving into Extension

Push-up Progressions

Push-up with One Arm Suspended Moving into Flye Position

Incline Push-up One Foot Suspended

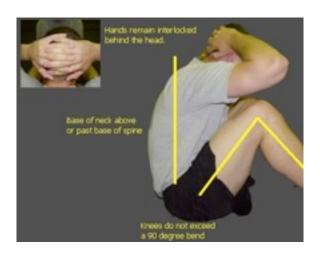
Incline Push-up Two Feet Suspended



Advanced push-up variations are possible with the TRX, all the principles of the perfect push-up will always apply.

Sit-ups

Sit-ups have a long history of being a test of abdominal strength, however, it has been a much maligned exercise because many low back injuries have resulted from its use as both a main abdominal drill and test. To remedy this situation we are going to take a new approach to the sit-up to re-establish the sit-up as a useful training drill and optimizing assistance exercises to aid in injury prevention.



Common Sit-up Mistakes

There are many common errors performed during the sit-up both indirectly cheating the movement and trying to improve sit-up numbers. Avoiding these mistakes will definitely decrease any likelihood of suffering low back injuries.

Sit-up Errors

Do Not Pull On The Head

Relaxed Lower Body

No Deliberate Breathing Pattern

Letting The Legs Come Off The Ground

Performing The Perfect Sit-up

Begin by digging into the heels, this will activate hamstrings that will relax the hip flexors that often are overactive.

Think of rolling rather than sitting up, this will activate your abdominals more than the hips.

Match the breathing to the points of tension

Assistance Exercises

Strength training research has shown that stability of the trunk is much more of an issue of back health and core strength than flexion exercises such as sit-ups. Using these drills can greatly reduce the chance of low back injuries, but they must be performed in a progressional manner and careful attention to technique. Abdominal endurance is a better indicator of trunk health than

trying to lift a lot of weight. The following drills will enhance stability of the abdominals as well as the strength of the surrounding muscles that help stabilize the spine and pelvis.

Side Bridging

Side bridging is an important torso exercise because all three layers of the abdominals are activated. In addition, the smaller muscle groups of the trunk such as the quadratus lumborum are trained to make an all-round trunk strength and stability drill.

Side Bridge Performance

Keep the elbow underneath the shoulder

Push through the three points of contact: lower body, hips, and elbow to elevate to the top position

Maintain proper posture by keeping the chest outwards and not allowing flexing of any part of the body



Side Bridge Progressions

Knees bent to 45 degrees and keep them on the ground

Legs straight, both feet on the ground

Legs straight, one leg on top of the other

Legs straight, one foot suspended

Legs straight, both feet suspended

Plank

The plank is a very popular and effective exercise for improving both abdominal and low back strength-endurance. Done correctly, the plank also teaches the lifter the important concept of bracing the abdominal wall.

Plank Performance

Place the elbows on the ground so they align under the shoulders.

Push through the toes and keep the spine in alignment with the back of the head and glutes.

Do not let the hips drop downwards or rise upwards

Plank Progressions

Standard Plank both legs on the ground

Plank Progressions
Standard Plank one leg slightly elevated
Standard Plank one leg suspended
Standard Plank both legs suspended
Push-up Position Hold
Push-up Arms Extended Forward
Push-up Position One Leg Elevated
Push-up Position One Leg Suspended
Push-up Position Both Legs Suspended
Suspended Rocker

Hip Bridge

The hip bridge acts as the perfect means in to teach proper recruitment in sequence of the hamstrings, glutes, and low back. Proper performance of this drill will result in a great deal of contraction in this area and minimal activation of the calves or quadriceps. Such activation is important in taking stress off the low back and deactivating the commonly overactive hip flexors.

Proper Hip Bridge Performance

Lie on back with heels suspended directly under TRX

The knees should be bent approximately 90 degrees

The TRX should be set-up slightly below knee height

Proper Hip Bridge Performance

Press through the heels and glutes to slowly raise the hips off the ground

Do not let the back extend and maintain alignment of the pelvis and low back

Point the toes towards the body to reduce the use of the calves



Hip Bridge Progressions

Two feet suspended

Two feet suspended feet pointing slightly inwards

Two feet suspended leg curl

One leg suspended hip bridge

One leg suspended leg curl

Hip Bridge Progressions

One leg suspended explosive leg curl

Pull-ups

Few exercises are associated with tactical fitness like the pull-up. Yet, many still struggle in posting high numbers with this upper body drill. Again, a major challenge facing the tactical athlete is not increasing their numbers simply by performing pull-ups. This will definitely cause overtraining and possibly injury.

Identifying the appropriate starting exercise will be vital in increasing performance numbers in the pull-up. Spending too much time on an inappropriate level will result in stagnation in performance. There are four primary variations of the pull-up.

Pull-up Progressions
Eccentric Pull-ups
Chin-ups
Mixed Grip Chin-up
Pull-ups



Advanced Variations

Pull-up training can be enhanced for the advanced trainee rather easily. The first step can be adding external load. Backpacks and other simple apparatus can be used for those that are limited with the equipment available. The Ultimate Sandbag can also be used to loop around the feet for added resistance. Because of the lever arm this creates, it results in a much heavier load perceived by the body than standard

backpacks or weight vests.

Rope climbing can be used as well for advanced pull-up progressions. Climbing rope is an important training drill for the tactical athlete and can be substituted at appropriate times if the athlete can perform a minimum of 15 pull-ups.

Advanced Progressions

External Resistance Added

Climbing Rope with Legs

Climbing Rope without Legs

Climbing Rope with External Resistance

Dual Rope Climbs

Body Rowing, Better Pull-ups

Typically the tactical athlete will focus on exclusively performing pull-up variations to improve their pull-up total. While this method has some ability to produce appreciable results, it may also lead to injury or overtraining.



The Body Row is a foundational exercise in the "Selected" program because it achieves many of our overall training goals.

- 1.Integrates the overall body.
- 2.Help correct muscle imbalances.
- 3.Leads to greater performance.
- 4.A lot of variety allowing for progression and motivation.

The Body Row can be made more challenging by three simple alterations.

- 1. Moving closer to the TRX unit.
- 2. Changing hand position.
- 3. Adding a pause at the top of the pulling position.

Progressions of the Body Row

Move closer to the TRX, see picture next to see final progression

Progressions of the Body Row

Semi-supinated hand position

Supinated hand position

Pronated hand position

One-arm Body Row

Flexibility Training

Maintaining range of motion and good tissue health is critical in both performance and injury prevention. However, there are many questions and controversies surrounding how to accomplish these two goals.

How Often: Specific types of flexibility training can be used depending upon the goal and timing of its use. For example, standard static stretching (holding a stretch in a certain position for 15 to 60 seconds) can be used not just to improve flexibility of a muscle, but recovery from workout or training. However, dynamic or contract-relax methods of flexibility are more ideally used just prior to training for specific preparation of movement.

What Types: There are numerous stretching and flexibility programs, however, we are going to deal with the most easy to implement and effective methods.

Contract-Relax: The idea of this method is to turn off the body's natural brakes that inhibit movement. The concept is to activate the muscle being stretched by moving it against and immovable object and then relaxing into a greater range of motion. For example, lying down and performing a standard straight leg hamstring stretch. Holding the stretched leg with a towel, or band push downwards against the towel with approximately 50% of your strength. After six seconds of pressing, relax, exhale, and pull the leg upwards. Then repeat till greater range can not be achieved.

Static Stretching: This type of stretching is the most familiar to most. A variety of positions can be used to static stretch and often this can relax the nervous system. However, going into pain or severe discomfort can cause worse results, therefore, moving into a stretch should never exceed slight discomfort. Holding these stretches should be a minimum of 15 seconds.

Dynamic: This form of stretching is most commonly used just prior to training. Moving in a variety of patterns helps warm and prepare the body for the more active movements the body

will perform. Some examples will be lunging forward with arms overhead in the TRX. Having the feedback of something like the TRX can actually help gain greater range of motion.

Pre-Training Flexibility Program

TRX Lunge with Arm Extension



Take a long lunge step and have the arms open in a V-position. Make sure the front heel stays planted and push the hips forward.

Push gently with the hands into the handles and then take an exhalation and push the hips additionally forward. Always make sure to push the chest outwards and squeeze the shoulders back.

TRX Glute Contract-Relax Stretch



Place stretching leg's foot into strap. Cross the leg over the opposing and squat back and down to feel a stretch in the glute.

Pull the opposing strap higher to create a larger stretch on the hip.

TRX Lateral Stretch



Keep the chest upwards take a long lead step to one side. Maintain both feet flat, sit back and down on one hip keeping the outside leg straight. Try to synchronize breathing with the descent to one side.

TRX Cross Lunge Stretch



With the chest leading upwards step back and across the hips. It is important not to have the hips rotate, try to maintain the hips square forward. The stretch should be felt in the glute and hip stepping back and across.

TRX Single Leg Hamstring Stretch



Place the stretching leg straight out, press through the heel as an active the contraction portion of the stretch. After pressing for about 5 seconds take a deep breathe, on the exhalation pull on the opposing strap and raise the leg.

Sandbag Holding Positions

The Ultimate Sandbag is going to be one of the most powerful training tools in the tactical athlete's program. Sandbag training has the richest history in all of strength training dating back to ancient Egyptian times as well as being traced to some of the old time strongmen that possessed strength, endurance, and flexbility.

The tactical athlete must possess power, overall body strength, and endurance. The Ultimate Sandbag is the best tool to help build all these fitness components.

Ultimate Sandbag Holding Positions
Bear Hug
Zercher
Shoulder
Overhead
Back for Complexes Only

Bear Hug Position



Overhead



Zercher Position



Shouldering Position



Becoming Powerful!

For many decades Olympic lifting and their variations have been a core component of sports performance programs. These lifts have been integral in building explosive power of athletes as Olympic lifters have demonstrated the best power production of any Olympic athlete. However, the challenge has always been the in successfully teaching these lifts as they can often be highly technical and proper equipment can be limiting.

The key in the Olympic lifts is the triple extension that occurs during the clean and snatch exercise. Triple extension refers to the extension of the ankle, knee, and hip that occur during in a specific pattern during explosive movements. This triple extension is absolutely vital in getting the most out of power movements and can be found in all natural patterns of human movement such as sprinting, jumping, and kicking.

The Ultimate Sandbag is the ideal tool for teaching this powerful triple extension and solves the elusive problems of standard Olympic lifting. Flexibility issues are removed because the receiving positions of the Ultimate Sandbag involve postures that are easy for almost anyone to achieve.

The technique of explosive movements with the Ultimate Sandbag are much easier to learn leading to more time training and less time trying to teach the movements. The structure of an odd object such as a sandbag has all the weight fighting away from the lifter causing them to focus harder on extending the body to raise the weight to the appropriate position.

The Ultimate Sandbag's unique construction allows not only traditional Olympic lifting type movements to be performed, but FIVE different variations to be used depending upon the gripping and placement of the sandbag. These will be used throughout the various workouts.





Ultimate Strength

Most question whether or not sandbag training can create the same level of strength that is often found with bodyweight, barbell, dumbbell, or even kettlebell training. John Jesse in his landmark book, "The Encyclopedia of Wrestling Conditioning", tells of the history of sandbags...

"Sandbags, heavy stones, and war clubs were used for the development of strength by wrestlers of many nations for several hundred years, long before the invention of the iron barbell."

Sandbags were the perfect training tool for wrestlers and martial artists because of their versatility and unstable nature. It was one of the few ways that these athletes could train against a resistance that was similar to a person. However, these were not the only athletes that were fond of sandbag training.

Early 1900's strongmen were big proponents of sandbag training because an awkward, non-cooperative training implement made any other strength training tool seem almost easy. John Jesse recites the use of sandbags by these strongmen...

"Sandbags over 100 pounds are awkward to handle and provide a true test of all-around strength, particularly in lifting them overhead or bringing them to the shoulder with one hand. Some of the old-time strongman wrestlers would shoulder a 180 to 220-pound sack of grains to the shoulder with one hand and then walk several hundred yards with the bag on their shoulder. A few were capable of pressing the same bag overhead with one hand after bringing it to the shoulder."

Such strength and endurance that was demonstrated by these old time strongmen would be very hard for even the best athletes of today to match.

Sandbags did not gain mainstream popularity because athletes would have to construct their own versions of sandbags. Such homemade sandbags were both messy and lacked a great deal of versatility. The Ultimate Sandbag has resolved many of the issues that coaches and athletes had with sandbag training and this has caused sandbags to grow in great popularity in many mainstream sports such as American Football. Listen to what Football Strength Coach, Steven Morris has to say about sandbag training for his athletes...

"Building weight room strength is essential if your football training is going to be successful. However, if all you build is strength in the weight room, you're in trouble! There seems to be a disconnect between what goes on in the gym and what happens in the field. Sure, a stronger player will always win, all things being equal. But all things are rarely equal.

Guys who excel, especially at power positions like the line, linebackers, and running backs, seem to be guys who can take what they've built in the weight room and transfer it to the field. They tend to possess strength at odd angles and from weird positions. If you've ever blocked another

human or tried to tackle them, you know that you aren't always in the perfect position. You need to find ways to train both standard strength and strength in odd positions to prevent strength leakage.

Sandbags are the answer. Way back in the olden days of the 1990s, dinosaur training came along and introduced us to odd object lifting, the kind you see in World's Strongest Man competitions. Dino training taught us about rock, stone, sandbag, and barrel lifting, all of which are great for building that odd strength. But the problem with rocks, stones, and barrels is that if dropped, they can become a real safety issue. If you drop a rock on your foot, you're screwed. If you drop a sandbag, you'll just look like a big dummy.

Because they change shape and are hard as hell to get a handle on, sandbags provide an excellent path to transfer strength. Josh Henkin's sandbag training information and sandbags are top of the line. Get one, load it up, and lift it. Squats, carries, overhead work—it's all good. Add sandbags to your football training, and I guarantee you'll notice a huge difference within weeks."

Injury Prevention

Most coaches and athletes tend to think of performance and injury prevention as two distinct training methods. The beauty of sandbag training it can accomplish both goals within the training system. Strength Coach, Allan Hedrick of the Air Force Academy has written extensively about how awkward objects can prevent common sports injuries:

"But, applying the concept of specificity, it makes sense that training with a fluid resistance is a more sport-specific method of training as compared to lifting exclusively with a static resistance, because in most situations, athletes encounter a dynamic resistance (in the form of an opponent) as compared to the static resistance. Further, because the active fluid resistance enhances the need for stability and control, this type of training may reduce the opportunity for injury because of improved joint stability." (NSCA Journal, Vol.25 Number 4)

Coach Hedrick is speaking of the use of kegs, however, it is easy to infer the same about sandbags. In fact, sandbags are far more versatile and safe than kegs.

Increasing stabilizer strength is one way that sandbags can prevent injury. If the smaller stabilizers are stronger, the joint integrity is better and the bigger muscles can provide more force.

In the famous book, Dinasour Training, Brooks Kubik states, "You feel sore as you do because the bags (sandbags) worked your body in ways you could not approach with a barbell alone. You got into the muscle areas you normally don't work. You worked the "heck" out of the stabilizers." (Kubik, p. 115)"

Powerful Core Training

The Ultimate Sandbag increases trunk and hip strength that helps stabilize the spine and can greatly decrease the risk of low back injury. The various holding positions of the Ultimate Sandbag challenge the endurance and stability of the trunk by maintaining postures with load pulling the body in different directions. The trunk resisting movement improves the stability by also teaching the important skill of bracing the trunk that increases intra-abdominal pressure (your body's own weight belt).

The explosive pulling drills activate the hamstrings, glutes, and low back (the posterior chain) in a synchronized manner which teaches the body to move in a more efficient pattern and reduces the long-term stress to the low back.

Sandbag training can be used outside of the typical strength training exercises that are familiar to most athletes. The unique rotational drills make sandbag training a must for any athlete that wants elite performance and to be injury free. These drills teach efficient movement, how to absorb and retransmit force, as well as train the core in a complete range of motion. Not too many fitness tools can come close to the versatility of sandbag training.

So Much Lunging

Many athletes will validate their strength by how much they can squat. There is no arguement that squatting is a valid an important strength training exercise. However, there is an arguement that single leg exercises may have more of an impact on performance and injury prevention than squatting.

Research has shown that the recruitment patterns of the lower body muscles is different with single leg exercises versus standard bi-lateral exercises such as squatting. Single leg exercises train the stabilizers of the hips that can help reduce back injuries and improve the body's ability to run faster and jump higher. Another benefit of single leg exercises is there is more training of the lower leg which can help prevent the common injuries from trail running and other such training.

Single leg drills such as lunges should be at the foundation of most training programs because of the dynamic flexibility that is created in the hip joint. Keeping the hip mobile and flexible goes a long way to reduce low back pain and creating a faster and stronger athlete.

Adding the Ultimate Sandbag in a variety of positions not only adds load, but instability as well. unlike many current "functional" training methods, the Ultimate Sandbag allows for strength and stability to be trained at the same time. In exercises such as a shouldering reverse lunge, the body has to not only stabilize in a backward step, but side to side as well. This lack of lateral stability is a big reason so many athletes get hurt!

Never Stop Endurance

"Getting in shape" is one of the most vague statements people make in regards to fitness. This is especially true for the tactical athlete as there are so many fitness qualities that need to be developed.

The truth is that most people are referring to the ability to perform long distance activities and tolerate the anaerobic endurance that can limit many in performance. The Ultimate Sandbag can do a great job of improving the anaerobic endurance so that the tactical athlete can keep performing high intensity efforts even though they may be suffering from a lot of fatigue.

The combination of the specific "Selected" workouts and a tool that is impossible to "groove" makes every repetition a challenge. In many other training tools "grooving" a lift makes the exercise easier over time, this reduces the effectiveness of training. However, because the Ultimate Sandbag keeps shifting it makes it absolutely impossible to "groove" sandbag lifts. This is far more effective for building anaerobic endurance.

U.S. Army Special Forces Selection and Assessment (SA) Course.

FOOTCARE

When we were asked to help prepare a course that would maximize the chances that you will pass selection, the FIRST problem in the (fairly short) list of things that cause candidates to fail was foot problems. Therefore, if you wish to give yourself the best chance of passing SF selection, you are advised to pay attention to this section of the program.

Footwear.

Do your **boots and shoes** fit properly? While this may seem to be an obvious question, you must ask it of yourself and carefully consider your answer. You will be spending more time on your feet, and in different types of work environments during your SA course than you may be used to. Wear the footwear you expect to wear at SA during your training and evaluate it. Are they a bit too tight? Or are they too big? Do your feet move around too much? Either situation can cause problems with blisters or damage to toenails. Consider what socks you will be wearing during the SA course at this time too. The day you arrive for your SA course is not the time to be trying new socks or footwear. Make sure what you plan to use works for you well before the course.

Foot Preparation.

Conventional wisdom has it that you should toughen or harden your feet before your SA course. Actually the reverse is true. You should baby them. Some successful ultra-endurance athletes who cover hundreds of miles on their feet visit the nail salon for pedicures as part of their foot prep strategy. But don't worry. You don't need to paint your toenails to get your feet through selection. But, you are going to be very, very nice to your feet for the next few weeks. The sooner you start working on your feet, the happier they will be with you.

Calluses and hard, dry skin are important things for you to deal with. Blisters can easily form under these areas. If they do, they are very hard to deal with, so, we are going to get rid of them. The



tools you will need are a simple foot file, which you can purchase inexpensively from just about any drug store, and a bottle of lotion. If you have any problems with fungal diseases of the foot, such as athlete's foot, you should take care of that problem first, before you deal with your foot prep.

Your foot file will probably have a coarse or rough side and less rough side. Until you get used to working on your feet, it's a good idea to start out using the less rough side. Gently start to file the hard skin and calluses off your feet. Plan on removing a small amount of skin each time, don't try and get the job done in one sitting. Don't neglect any calluses or rough spots that may have built up on the tips of your toes either.

After you have finished your filing work, massage some **lotion** into your feet paying particular attention to the calloused areas you just filed, your heels and the areas between your toes. In the weeks running up to your SA course, if you take a few minutes to do this every day, you will improve the quality and health of the skin on your feet. While at first glance you may think that you are making your feet softer, you are actually making them much more resilient and resistant to blistering. The self foot massage that you perform while rubbing lotion into your feet (it's OK to dig in some with your thumbs and fingers) will also improve the general resilience of your feet.

Apart from work to reduce the likelihood of blisters, the other parts of your feet that you should work on during your foot prep in the weeks leading up to your SA course are your toenails.

The best time to work on your toenails is after a bath or a shower, when they are soft. First, run your hands over your toenails. You will quickly notice those that are long or present higher on the toe than they should. You have two goals in servicing your toenails:

- 1. Trim them to the proper length
- 2. Filing down any that are projecting up too high from the toe.
- 3. IF your prep work is insufficient and blood does build up under a toenail, you may notch the nail to allow fluid to drain. Alternatively, a heated needle may be used to burn through the nail to allow fluid to drain.

You will need a standard nail clipper and some emery boards for these tasks.

When you trim your toenails, cut them straight across, parallel to the front of the foot. You need your toenails to be short enough so that they do not impact the front of your boot or shoe when you are walking or running downhill. If this happens they will become extremely painful, they may bleed or form bloody blisters under the toenail, and will eventually drop off. On the other hand, do not be overly aggressive in trimming your toenails. You do not want to cut then too short.

After you have trimmed your toenails, run your hands over them again looking for any sharp edges or toenails that are too thick, or stand proud of their bed (this may be the case if you have previously lost or damaged a toenail). If you find any, do the best job you can with the emery boards

you have purchased to remove them. You do not want anything that can snag or pull on your socks. This can also cause bloody, painful toenails and it is a situation that you can and should avoid.

You should carry out this equipment check and maintenance drill on your feet at least once a week. You should probably self-massage and rub lotion into your feet every day. REMEMBER: Get rid of any fungal issues such as athlete's foot FIRST.

I've done all that and I still get blisters or hot spots. What next?

If after all that hard work you still get blisters or hot spots in the same place on your foot then you may just have to tape the troublesome section of your foot. Believe it or not, books have been written about foot taping but we are going to keep it simple.

Depending on the size of the area you wish to tape, you will need some one, two or three inch surgical tape such as Elastikon™. You will also need some adherent or glue as the tape WILL NOT stick to your foot during the rigors of a selection course. The best stuff to use is a liquid called Tincture of Benzoin. You may be able to scrounge some, and the tape too, from your Company medic if you ask them nicely. Otherwise, you can purchase them from you local pharmacy. You may have to ask at the counter for the Tincture of Benzoin.

Make sure your feet are clean and dry. Apply a thin coating of Benzoin to the area you wish to tape. Let it air dry, like contact cement. (NOTE: Do not spill the Benzoin on anything you do not wish to be brown forever.). Cut the surgical tape to length, stretch it slightly, and apply it carefully to the area you want to cover. Make sure there are no folds, creases or ridges as these may cause blisters under the tape. A little talc will stop any Benzoin sticking to your socks.

Properly applied tape on Benzoin base will stay on for at least 24 hours in rigorous conditions including water crossings. You can remove the tape carefully and slowly in the shower or bath once you are done.

You should only tape sections of your feet that you know are going to give you problems.

In closing out this section, we know that some people like to wear a pair of very thin undersocks in addition to their regular socks. This is actually a good idea, as that way, the socks rub, not your feet and skin. At a pinch you can use a pair of womens' knee-high hose. If you do chose the undersock route though, you absolutely have to use socks that have no seams – or only very flat ones. That's sometimes easier said than done, as sometimes such socks are hard to find. If the only undersocks you can find have seams – don't bother. They'll be part of the problem, not part of the solution.

In the Field.

Lubes and powders will also help you avoid blister problems in the field. Whether you use a



lube or a powder will depend largely on the sorts of conditions you think you will encounter. If the conditions are likely to be dry, with a lot of sand or loose dirt, then you are better off using powders as lubes may cause dirt to stick to your feet and cause blisters. If the conditions are wet, then lubes will probably

serve you best.

A simple talc like Zeesorb[™] can usually be purchased at the local pharmacy. <u>BlisterShield</u>[™] powder can be purchased at your local running store; it works really well. BlisterShield[™] is also available as a roll-one liquid-based lube. Other good lubes include <u>BodyGlide</u>[™], or if it's really going to be wet,

<u>Aquaphor</u>™. Plain petroleum jelly does not generally work well as it is too sticky.

If you are using a powder, rub some onto your feet and between your toes, and then sprinkle some into your boots and shoes before you put them on. If using a lube, apply it to friction points —



heel, balls of the feet, toes, etc. Often with lubes, more is not better. Just apply enough to lubricate the area you want to protect.

Whatever you decide to use, make sure to make room in your pack so that you can take some along with you into the field on selection. You will need to re-apply the powder or lube, most likely.

It's also really important that you continue to take care of your feet during the selection and assessment course. Take a small cloth or towel with you and at least one pair of spare socks. Every chance you get, take off your boots, empty out any debris, take off your socks, shake them out if dry, change them if they are wet. Wipe your feet dry and clean, don't miss between the toes. Reapply powder or lube as appropriate.

And finally, if you feel a hot spot developing or a toe nail snagging – FIX IT! That is, as soon as you can. If it's a hot spot, lube it up. You may want to consider taping the area that night if a blister hasn't already formed. If a toenail is snagging or getting butted by your boot, file or trim it as soon as you can. DON'T LET A MINOR PROBLEM BECOME A MAJOR ONE.

Proper maintenance of your electrolytes can help you avoid blisters too. We'll cover that in the section on hydration and electrolyte management.

Side note on lubes and powders: There's another good reason to carry some extra powder or lube in your rucksack: chafing. You may well be taking part in a SA course in weather that is hotter than you are used to. So, you'll sweat. Equipment and clothes rub, heat rashes form too. They can be sufficiently painful and distracting to prevent you from performing at your best. Prompt application of some powder or lube can stop a minor irritation from becoming a painful problem.

Other footcare resources: If you have previously encountered a lot of foot-related problems and are worried that your feet might still let you down, then you may want to check out this website: Fixing Your Feet. There are several free articles that can help you deal with or prevent just about any foot-related problem you might encounter at the SA course.

PREPARATION FOR RUNNING TESTS AND RUCKSACK MARCHES

The requirements you have to meet during the US Army Selection & Assessment course (SA) are:

Physical Fitness: Run 2 miles. Should be able to run under 14:00 (7:00/mile) but closer to 12:00

(6:00/mile) is preferred.

Run: 4 and 6-mile runs. Should be able to maintain an 8:00/mile pace.

Rucksack marches: 6, 10 and 15 miles carrying ~45lb rucksack without food or water. Estimated average

weight 60-65lbs once food and water added. SA candidates should be able to maintain a 15:00/mile

pace (4 mph).

The prerequisites -- the minimum level of performance you should be able to achieve before starting

this 12-week training program are:

Run: 3 miles in no longer than 24:00

Rucksack march: 10 miles carrying a 50lb load in no longer than 2:45:00

If you cannot achieve these minimum standards relatively comfortably you may wish to consider if you

should work on increasing your capabilities before entering the training program.

Course Summary

This 12-week course, if you complete all the practices, will prepare you to meet or exceed the

requirements for running and rucksack marches that you will encounter in the SA course. In some of

the training workouts for the 2, 4 and 6 mile runs your training goal is to slightly exceed the required

pace of the SA course. This is so you will have a margin of "comfort" during the actual test. However

while it is to your advantage to train that fast if you are able, it is not strictly required that you meet

these enhanced pace times in training.

You will obtain the most benefit and physical adaptation from your training sessions if you refuel

appropriately as quickly as possible after your running and hiking workouts. There are many commercial

"post workout" drink mixes or food bars available, however, you will not go far wrong if you down a non-fat chocolate milk after your workout.

DO NOT run or march/march further than the prescribed workouts. More is not better.

2-mile runs.

These are relatively short runs. You should not be concerned about hydration or fueling during these runs. However you should make sure that you do not start the workout dehydrated.

Your training runs should ideally be done on a relatively flat asphalt or dirt trail. In addition to the training run workout itself you should allow for, and do, a 5-minute warm-up and cool down at a moderate pace before and after the run workout.

If your duty station or assignment does not allow you to safely train for the 2-mile run outdoors, then you may complete the run workouts on a treadmill. This is not the best solution, but if it is what you must do to complete the training, so be it. Set the treadmill to a 2-degree incline to simulate road conditions. As most treadmills measure speed in miles per hour, here are the settings for the workouts listed:

Workout	Min/mile	MPH
2mi/15 minutes	0:07:30	8.0
2mi/14 minutes	0:07:00	8.6
2mi/13 minutes	0:06:30	9.2
2mi/12 minutes	0:06:00	10.0

DO NOT use the treadmill unless you have no alternative.

As will be the case in all your runs, even pacing is important. Be patient. Do not go out too fast. Try to hold an even pace through the whole run, or, go out a tad slow until you have settled down, then, speed up towards the end of the run.

4 x 400 Meter runs.

The 4 x 400 meter runs will help you to develop the speed you need for the 2, 4 and 6-mile runs. Ideally, if there is an athletic field with a running track at your duty station, you should use that. Often, if there is no track there, a local high school or college will have one that you can use. 400 meters is the distance of the inside lane without using the offsets.

You will run these drills in shorter times per 400 as you progress and with shorter rests in between. Warm up for the workout by running a couple of laps at an easy pace. Once you have started the workout, don't stop running; just jog easy between the 400 meter sets for the prescribed recovery distance. Take a couple of laps of easy running cool-down once you are done. You should not be concerned about hydration or fueling during these runs. However, you should make sure that you do not start the workout dehydrated.

What if you don't have a track to run on? Well, you will have to improvise. For example, the distance of one end zone and the length of the playing surface of a football field are very close to 100 meters. Two out and backs would be your run, but you should add 3-4 seconds to account for the turn-arounds. If there is no other option, you may also use a treadmill set to 2 degrees incline. 400 meters is approximately ¼ mile, so use that for your running distance. If you have to use a treadmill, this is the pace chart:

400M in (secs):	MPH
100	8.9
95	9.4
90	9.9
85	10.5

3, 4, 5 and 6-mile runs.

These workouts are to prepare you for the 4 and 6-mile runs you will encounter at the SA course. Like the 2-mile run workouts, your training runs should ideally be done on a relatively flat asphalt or dirt trail. In addition to the training run workout itself you should allow for, and do, a 5-minute warm-up and cool down at a moderate pace before and after the run workout. Like the 2-mile workouts, you should ensure that you do not start the workout dehydrated. Now, however, you may wish to take some water or sports drink (e.g., Gatorade) with you on these runs.

The key to running these workouts well is even pacing. Aim to achieve a steady sustainable pace and learn what the target pace you will run at the SA course feels like.

The treadmill pace chart for these runs is:

Min/mile	MPH
0:08:30	7.1
0:08:00	7.5
0:07:45	7.7

You should only use a treadmill if you have no other choice. Do not forget to set the incline to 2 degrees.

6, 10, 12 and 15-mile Rucksack marches with load.

These are extremely important workouts. You shouldn't short-change them. In addition to preparing and conditioning you to meet the standard required at the SA course, these marches are your opportunity to find out generally what works for you and what does not.

You'll remember we discussed various options for foot care: powders, lubes and so on. Try out your choices during these long marches. It is better to find out that something doesn't work for you during your workouts than at the SA course.

While we will discuss this in greater detail in the section on heat acclimatization, hydration and electrolyte management, the long rucksack march workouts are the opportunity to work out how much you need to drink to maintain your performance and hydration.

Also plan on carrying the same food and water as you will at the SA course during these marches.

Think of these long rucksack marches not only as an essential conditioning drill, but also as your own personal laboratory to test anything that you plan on using during the SA course.

During the SA course may be marching on sandy, muddy or rocky and uneven terrain. Therefore you should attempt to include these in your training workouts. If you are not used to it, marching on uneven terrain will help you to strengthen your feet and ankles and help prevent sprains and other injuries. In the section of this guide on foot care, we referred you to a <u>foot care website</u>. If you have a history of ankle sprains, even if they were several years ago, we encourage you to include an <u>ankle strengthening</u> routine in your preparation for the SA course.

You will notice that in the final weeks of training the rucksack marches are scaled back in distance. This is what athletes call a "taper". It helps to ensure you are fully charged when you go to the SA course, without any residual tiredness from preparing to go to the course. DO NOT go further than the prescribed workouts.

There will be no substitute for doing these marches outside. You should *only* use a treadmill for these workouts if your duty station or duty assignments absolutely prevent you from training outside. If you must use a treadmill, the pace chart is included at the end of this paragraph. Also, in this case, if using a treadmill we suggest setting the treadmill to automatically vary the incline between 2 and 8 degrees of incline. If the treadmill has no automatic "hill" routine you should randomly change the levels of incline

yourself throughout the workout. However, remembering that the long rucksack marches are your lab as well as a workout, do the best you can to march outside.

Min/mile	MPH
0:17:00	3.5
0:16:00	3.8
0:15:30	3.9
0:15:00	4.0
0:14:00	4.3
0:13:00	4.6

1-Hour rucksack marches with load

These marches will help your body adapt to marching as quickly as possible while carrying a load, but without the strain of a long march. No pace is specified. Just march as quickly as you can without running, on as many different surfaces and inclines as you can find. Variation is good.

RUN AND MARCH WORKOUT SCHEDULE

The workout plan of runs and marches to prepare you for the SA course is twelve weeks long. Each week is broken out to seven different days including two days without any running or marching workouts being assigned. Remember, you should be able to run 3 miles in less than 24 minutes and march 10 miles with a 50 pound load in less than 2 hours 45 minutes before starting this plan.

WEEK↓DAY→	1	2	3	4	5	6	7
1	RUN 3 MILES/ 8:30 min/mile pace	1-HR RUCKSACK MARCH WITH 50LB LOAD	4X400 Meters in 100 seconds, 400M easy between.	RUN 2 MILES in 15 minutes	DAY OFF	6-MILE RUCKSACK MARCH, 17MIN/MI 50LB LOAD	DAY OFF
2	RUN 3 MILES/ 8:00 min/mile pace	1-HR RUCKSACK MARCH WITH 50LB LOAD	4X400 Meters in 100 seconds, 400M easy between.	RUN 2 MILES in 15 minutes	DAY OFF	6-MILE RUCKSACK MARCH,16MIN/MI 60 LB LOAD	DAY OFF
3	RUN 3 MILES/ 7:45 min/mile pace	1-HR RUCKSACK MARCH WITH 50LB LOAD	4X400 Meters in 100 seconds, 200M easy between.	RUN 2 MILES in 15 minutes	DAY OFF	10-MILE RUCKSACK MARCH, 16MIN/MI 50LB LOAD	DAY OFF
4	RUN 4 MILES/ 8:30 min/mile pace	1-HR RUCKSACK MARCH WITH 55LB LOAD	4X400 Meters in 95 seconds, 400M easy between.	RUN 2 MILES in 14 minutes	DAY OFF	10-MILE RUCKSACK MARCH, 15MIN/MI 60LB LOAD	DAY OFF
5	RUN 4 MILES/ 8:00 min/mile pace	1-HR RUCKSACK MARCH WITH 55LB LOAD	4X400 Meters in 95 seconds, 400M easy between.	RUN 2 MILES in 14 minutes	DAY OFF	12-MILE RUCKSACK MARCH, 17MIN/MI 50LB LOAD	DAY OFF

Continued...

WEEK↓DAY→	1	2	3	4	5	6	7
6	RUN 4 MILES/ 7:45 min/mile pace	1-HR RUCKSACK MARCH WITH 55LB LOAD	4X400 Meters in 95 seconds, 200M easy between.	RUN 2 MILES in 14 minutes	DAY OFF	12-MILE RUCKSACK MARCH, 15MIN/MI 60LB LOAD	DAY OFF
7	RUN 5 MILES/ 8:30 min/mile pace	1-HR RUCKSACK MARCH WITH 60LB LOAD	4X400 Meters in 90 seconds, 400M easy between.	RUN 2 MILES in 13 mins or your best pace if slower.	DAY OFF	15-MILE RUCKSACK MARCH, 17MIN/MI 50LB LOAD	DAY OFF
8	RUN 5 MILES/ 8:00 min/mile pace	1-HR RUCKSACK MARCH WITH 60LB LOAD	4X400 Meters in 90 seconds, 200M easy between.	RUN 2 MILES in 13 mins or your best pace if slower.	DAY OFF	15-MILE RUCKSACK MARCH, 15MIN/MI 60LB LOAD	DAY OFF
9	RUN 5 MILES/ 7:45 min/mile pace	1-HR RUCKSACK MARCH WITH 60LB LOAD	4X400 Meters in 90 seconds, 200M easy between.	RUN 2 MILES in 13 mins or your best pace if slower.	DAY OFF	15-MILE RUCKSACK MARCH, 15MIN/MI 60LB LOAD	DAY OFF
10	RUN 6 MILES/ 8:30 min/mile pace	1-HR RUCKSACK MARCH WITH 65LB LOAD	4X400 Meters in 85 seconds, 200M easy between.	RUN 2 MILES in 12 mins or your best pace if slower.	DAY OFF	15-MILE RUCKSACK MARCH, 14MIN/MI 65 LB LOAD	DAY OFF
11	RUN 6 MILES/ 8:00 min/mile pace	1-HR RUCKSACK MARCH WITH 65LB LOAD	4X400 Meters in 85 seconds, 200M easy between.	RUN 2 MILES in 12 mins or your best pace if slower.	DAY OFF	10-MILE RUCKSACK MARCH, 14MIN/MI 65LB LOAD	DAY OFF
12	RUN 6 MILES/ 7:45 min/mile pace	1-HR RUCKSACK MARCH WITH 65LB LOAD	4X400 Meters in 85 seconds, 200M easy between.	RUN 2 MILES in 12 mins or your best pace if slower.	DAY OFF	6-MILE RUCKSACK MARCH, 13MIN/MI 65LB LOAD	DAY OFF

HEAT ACCLIMATIZATION, HYDRATION AND ELECTROLYTE MANAGEMENT

Introduction

Let's review the three things that, other than a failure to meet the required physical standards, typically cause candidates to fail the Selection & Assessment (SA) test: Foot problems, low back issues and heat problems. In this section we are going to deal with preparation to avoid heat problems, and the closely associated subjects of hydration and electrolyte management.

Heat Acclimatization

You should carefully consider what the temperature and humidity will be like at the location where your SA test will be held (Likely Fort Bragg, NC) compared to the temperature and humidity of your duty station. The nature of your duty assignment should also be considered. For example, are you typically indoors in an air-conditioned environment most of the time? If you are, even working in a desert location will not be much use to you.

You should not take heat acclimatization lightly. A failure to properly prepare for a location that is hotter and/or more humid than you are accustomed to can lead to common heat illnesses such as:

- 1. Heat Cramps
- 2. Heat Exhaustion (inc. headache, dizziness, fatigue, hyperirritability, tachycardia, hyperventilation, diarrhea, nausea and vomiting)
- 3. Heat Syncope (fainting)

Proper heat acclimatization can reduce the incidence and severity of all these heat illnesses. In addition to heat acclimatization, improper attention to hydration and electrolyte balance may make the symptoms of heat illness worse. More on that later.

Heat Acclimatization How-Tos

The good news is that you can obtain more than enough heat acclimatization in only 14 days. That will require you to spend some time in a hot or hot and humid environment. If you have access to a sauna and/or a steam room (hot rooms) the process will be fairly easy. Your local MWR can tell you if there are any on your base. We recommend that you plan on starting out in the hot rooms about a month before your SA course if you think you will need some heat acclimatization.

The first two weeks, spend approximately 30 minutes daily relaxing in the hot rooms. If you have access to both a sauna (dry heat) or a steam room (wet heat), alternate between the two every ten minutes. In the two weeks before your SA course try some *moderate* exercise in the hot rooms. Walking up and down or easy jogging on the spot would be sufficient. Adding a little activity in the heat, rather than just spending time in the hot environments will help better decrease your heart rate, improve fuel utilization and exercise economy (how much oxygen you need) when working in the heat. In the last two weeks before your SA course, if you can, it will be helpful to increase the time you spend heat training, but no more than 60 minutes is required.

Specifically, in the first 5 days of heat training your body will lower its heart rate, the nervous system will re-route blood supplies to working muscles and the skin, and your plasma (blood) volume will increase. This will generally reduce your perceived exertion when working in warmer temperatures. Earlier onset of sweating, and increased sweat volume generally peaks at between 5-8 days of heat training. This helps keep the body cooler. Incidentally, sweat production increases more if you train in wet heat than if you train in dry heat. At between 3-9 days of heat training the body will have reduced the amounts of salt lost in sweat and urine too. Reducing the amount of salt in your diet at this time will assist that adaptation too. These are all essential heat adaptations that will be a great help to you at the SA course. If you do not have access to hot rooms like a sauna or steam room., just do the best you can. For example, runners training for the Badwater ultramarathon -- a 135 mile foot race run principally in Death Valley -- report dressing warmly and driving around in their cars with heaters full on to help their acclimatization before the race. The good news also, is that according to Dr. Lawrence Armstrong, a noted authority on performance in hot and humid environments, intense physical exercise also does well -- although not as well as heat training -- to prepare you for dealing with hotter or more humid environments. The runs in your running and marching program would count as intense physical exercise. While real heat training is the best option, these intense runs, perhaps performed a little overdressed in the two weeks before the SA course will be better than no action on your part.

Don't forget to hydrate appropriately while heat training.

Hydration management.

Proper hydration and electrolyte management on your part will be an essential component of your success at the SA course. However, because individual differences can be *considerable*, this will require a little work on your part to make sure that we get it right. And it is worth getting it right.

If you allow yourself to become dehydrated by even relatively small percentages of your bodyweight, your physical performance will decline dramatically. Dehydration also increases your risks of heat illnesses, some of which we reviewed previously. Dehydration was present in approximately 17% of all heat stroke hospitalizations in the U.S. Army over a 22-yr period. In a series of 82 cases of heat stroke in Israeli soldiers, dehydration was present in approximately 16% of the cases. Heat stroke is a potentially fatal heat illness.

A good place for us to start is the conclusion from the American College of Sports Medicine(ACSM) position stand on exercise and fluid replacement, which says that:

"Physical exercise can elicit high sweat rates and substantial water and electrolyte losses, particularly in warm-hot weather. If sweat water and electrolyte losses are not replaced then the individual will dehydrate during physical activity. Excessive dehydration can degrade exercise performance and increase risk of exertional heat illness. Overdrinking can lead to symptomatic exercise associated hyponatremia (a potentially fatal condition).

The goal of prehydrating is to start physical activity euhydrated (normally and fully hydrated) and with normal body electrolyte status. Prehydrating with beverages should be initiated at least several hours before exercise to enable fluid absorption and allow urine output to return to normal levels. The goal of drinking during exercise is to prevent excessive (>2% body weight loss from water deficit) dehydration and excessive changes in electrolyte balance from compromising performance and health. Because there is considerable variability in sweating rates and composition between individuals, *individualized fluid replacement programs* are recommended. Measurement of pre- and postexercise body weight to determine sweat rates is a simple and valid approach to estimate sweat losses.

During exercise, consuming beverages containing electrolytes and carbohydrates can provide benefits over water along under certain circumstances. After exercise, the goal is to replace fluid and electrolyte deficits. The speed with which rehydration is needed and the magnitude of fluid/electrolyte deficits will determine if an aggressive replacement program is merited."

How much should I drink?

That's a good question. The only person that can really figure that out is you. And, sorry to say, that task isn't really optional if you want to do your best on the SA course. The ACSM says you should hydrate to prevent greater than 2% body weight losses from water losses, but how much is that? Well, the ACSM says that *most folk* (that means some sweat more, some less) sweat between 0.5 liters to 2 liters an hour. That's roughly from one to four of the old 32-ounce Army canteens an hour in sweat. If your goal is to replace your sweat losses as closely as possible, how can you figure out how much you are sweating? You performance will plummet if you don't drink enough, and it can be really dangerous to drink too much, so you do need to match your own sweat losses as best you can. You are going to have to start weighing yourself on a before and after basis during training and preparation.

One opportunity is when you are doing your heat acclimatization training in the weeks before the SA course. Another is before and after your long rucksack marches, when hydration is going to be a real issue. You could also weigh before and after a 6-mile run. The most applicable calculation will come from your long rucksack marches but you should understand it is still an approximation. In addition to what you sweat out you are also going to have take account of:

- a) How much fluid you drank, and
- b) How much urine you passed if any.

Weigh yourself before exercising or heat acclimatizing, and again after. If you are at the gym for heat acclimatization and there is a scale in the locker room, it's a good idea to weigh naked if you can. We suggest a minimum period of one hour for this test. To obtain your sweat rate, deduct finishing weight from starting weight, add ounces of fluid drunk and deduct ounces of urine passed (so you can

see it might be a good idea not to urinate during the test as, if you do, you will have to collect your urine and measure it. Or, at least, make a really good guess).

Starting weight		lbs
Less: Ending weight	()	lbs
Weight lost		lbs
Multiply by 16 to obtain weight lost in ounces		ozs
Add: Liquid consumed		OZS
Less: Urine passed	()	ozs
SWEAT RATE PER PERIOD		ozs

If you exercised for an hour, this is your hourly sweat rate. If you exercised for more than an hour, then correct the calculated weight in the last row to an hourly value. The rate you calculated is how much you should plan on drinking each and every hour during the SA course. For your reference, a standard Army canteen contains 32 ounces. The bladder in your Camelbak likely holds 100 ounces, however bladder size varies so check what you have.

The calculation you have made is a starting point, but it is still an approximation, so it will be best if you can test it during your long rucksack marches. You are strongly advised to read this article and use the attached table of fluid and electrolyte balance during your long rucksack marches to ensure that you hydrating appropriately.

Can't I use the color and volume of my urine as a guide to my hydration status?

In short, no. During exercise in warmer conditions, the body can push blood from the internal organs, which include your kidneys, to the muscles and skin. It does this to promote cooling. Because the kidneys are receiving less blood, as well as some other heat related factors, your rate of urine production may be significantly reduced. Therefore, how much urine you are passing, or its color, during physical activity may be a completely misleading indicator of how much you should drink.

NOTE: If at any time during the SA course you pass urine that is dark like tea, Dr. Pepper or Coke, stop the course immediately and consult medical staff present.

This is also a good time to point out that you should not limit your fluid intake during the SA course in the hope of avoiding time lost to urinating. We guarantee that you will lose more time to the resulting dehydration than you ever will to urinating. Take advantage of all the opportunities you have to top up your personal water supplies during the SA course.

Don't show up dehydrated.

If you have to travel to the SA course from your duty station, do your best to make sure you don't show up on the first day dehydrated because of your travels. We all try to minimize rest stops while traveling, but in this case, make sure you don't do that at the expense of your hydration status.

Electrolyte management.

In very broad terms "electrolyte management" in this context means managing the salt you consume during the SA course. The principal electrolytes lost in sweat are sodium and chloride, the constituents of table salt. You also lose some smaller amount of potassium. Any other minerals lost in sweat are insignificant in the context of what you need to replace orally.

Why should I care about electrolytes?

If you fail to appropriately replace the electrolytes you lose to sweat during the SA course, many authorities suggest that your chance of experiencing potentially debilitating cramps will increase. If you drink only water, in excess of your sweat rate and with no electrolytes, you could be at risk of overdrinking, which could be potentially harmful. Additionally, poor electrolyte management can significantly increase your chances of foot problems and particularly blisters. This happens because as the body works to maintain your plasma sodium levels, it can cause water to buildup in the feet and hands which become puffy, leading to much easier blister and toenail problems. You can read a more detailed article here. The article was written for ultra-distance runners but it is appropriate for the SA course too. Also know that blistering can also lead to cellulitis, another debilitating problem. While you may think foot problems are no big deal, remember that they are actually one of the principal reasons folk drop out of the SA course.

What can I use to manage my electrolytes?

You will get some sodium from the food you will eat -- MREs -- during the course. You will also need to supplement the electrolyte content of the water you drink during the SA course. Your

source for the supplemental electrolytes will be the Oral Rehydration Salt (ORS) packets that are given to you.

The ORS packets you use are identical to those used by the World Health Organization to treat dehydration in children with dysentery. ORS is a remarkably effective emergency rehydration aid when dissolved in one liter of water per packet. That is too strong for you to use as a regular drink during the SA course, so will be using the ORS packet a bit differently to supplement our electrolytes.

As an electrolyte supplement we suggest that you add 3/5ths of an ORS packet to a 100-ounce Camelbak bladder of plain water. To put that in context, were you to be using the old-style 32-ounce Army canteens, you would split one ORS packet across five canteens.

Remember this is a starting point for you. In exactly the same way that an individual's sweat rate can vary immensely, so can their sodium needs. You may have greater or lower sodium needs than the baseline starting point provides, so by testing what works for you on the long rucksack march workouts and by using the <u>fluid and electrolyte balance table</u>, which is also included at the end of this section, you can increase or decrease the amount of ORS powder you add to your water in training until it is just right for you. Putting a bit too much sodium into your drinks won't kill you, but it may make you feel uncomfortable, so add or deduct a bit at a time and test your change.

Remember: TEST EVERYTHING IN TRAINING, NOT AT THE SA COURSE!

Can I load up on salt ahead of time?

Not really. The body has remarkably efficient mechanisms to maintain the sodium level in your body. If you try to "salt load" in the days prior to the SA course, you will simply pass the extra salt from your body in your urine.

If, however, you were to start the SA course days with a relatively salty beverage such as tomato juice or $V8^{TM}$, chased by a glass of water, it wouldn't hurt.

End of day.

If you finish a day at the SA course thirsty, do not drink plain water to slake your thirst. Supplement those drinks with electrolytes too, which will optimize the rate at which your body rehydrates.

Hydration I OW	Hydration: OK	Hydration: HIGH
	ilyalation. Or	i yaladığır. i Gir
Electrolytes HIGH	Electrolytes HIGH	Electrolytes HIGH
Hypernatremia with dehydration	Hypernatremia	Hypernatremia with over-hydration
Likelihood: moderate	Likelihood: rare, transitory if water available	Likelihood: very rare
Weight is down a few pounds or more	Weight is normal	Weight is up a few pounds or more
Thirst is high, and salty foods taste bad.	Thirst is high, and salty foods taste bad.	Thirst is high, and salty foods taste bad.
Mouth and skin are dry	Mouth is not very dry	Possible mental confusion
Food acceptance is poor	Causes: no access to water, or voluntary	Hands may be puffy
Absence of urination	restriction of water intake, body electrolytes	Shortness of breath, rapid heart rate
Causes: no access to water or voluntary	concentrated by loss of water	Food acceptance is poor
restriction of water intake, body electrolytes	What to do: Drink to satisfy thirst, so that excess	Causes: over-consumption of salt, probably from a
concentrated by loss of water	electrolytes are removed by sweating and	combination of sources
What to do: Get access to water and drink.	urination. Restrict salt intake until excess is	What to do: Stop electrolyte intake, drink only to
Restrict electrolytes until weight is near normal.	urinated and sweated out.	wet mouth until weight is normal.
Hydration: LOW	Hydration: OK	Hydration: HIGH
Electrolytes OK	Electrolytes OK	Electrolytes OK
Dehydration	Proper hydration and electrolyte balance	Over-hydrated
Likelihood: common	Likelihood: common	Likelihood: moderate
Weight is down a few pounds or more	Weight is stable or slightly down	Weight is up a few pounds or more
Thirst is high, and salty foods taste normal.	Stomach is fine, food acceptance is normal	Wrists and hands are probably puffy
Mouth is dry, food acceptance is poor	Mouth is moist (can spit) and skin is normal	Stomach is queasy
Skin is dry and may tent if pinched	Cramps: none	Thirst is low, and salty foods taste normal.
May have dizziness on standing up	Urination is normal	Mouth is moist – can spit.
May have cramping	Causes: proper water and electrolyte intake	Causes: fluid intake in excess of needs
Mental performance may be affected	What to do: Continue with hydration and	What to do: Drink only to wet mouth until weight is
Causes: insufficient fluid intake	electrolyte practice unless conditions change	near normal
What to do: Drink sports drink with electrolytes, or		
water		
Hydration: LOW	Hydration: OK	Hydration: HIGH
Electrolytes LOW	Electrolytes LOW	Electrolytes LOW
Hyponatremia with dehydration	Hyponatremia	Hyponatremia with over-hydration Dangerous!
Likelihood: very rare	Likelihood: mild form is common	Likelihood: moderate
Weight is down a few pounds or more	Weight is normal	Weight is up a few pounds or more
Thirst is high, and salty foods taste good	Stomach is queasy, with poor food acceptance	Wrists and hands are puffy.
Mouth is dry, can't spit	Wrists may be puffy	Nausea, stomach sloshing, possible vomiting.
May have cramping	Salty foods taste good	Thirst is low, and salty foods taste very good.
Skin is dry and may tent if pinched	Thirst is normal	Athlete may show mental confusion, odd behavior
May have dizziness on standing up	Mouth is moist – can spit	Mouth is moist – can spit
Causes: insufficient drinking, no electrolyte intake	May have cramping	Urination may be voluminous and crystal clear
What to do: Take electrolytes and drink sports		Causes: over-hydration, insufficient sodium intake
drink or water	What to do: Increase electrolyte intake until	What to do: Drink only to wet mouth until weight is
Copyright SUCCEED! Sportsdrink LLC, 2007	stomach feels ok.	normal, then correct any sodium deficit

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Exercises, Running and Marching: Putting it all together

When you look at the separate schedules for the strength exercises, running and marching, you may wonder how you should combine the two. The following table is a guide that shows the ideal time allocation that will maximize the benefits of the program as whole:

	US Army Special Forces Selection & Assessment Preparation Course Suggested Workout Structure						
	1	2	3	4	5	6	7
STRENGTH	Day One Strength		Day Two Strength		Day Three Strength		
RUNNING	Day One Run		Day Three Run	Day Four Run			
RUCKSACK MARCHING		Day Two March				Day Six March	
REST & RECOVERY							Day Off

What if your duty schedule means you cannot adhere to this suggested schedule? Well, at best try to combine your runs with your strength training days. Try to avoid doing strength and rucksack marches the same day. But, if you have to do what you have to do to complete the schedule in any given week it will not be the end of the World. Do try to take one full day a week off from training though, if you can.

Table Explaining the workouts

Exercise	Sets	Repetitions	Rest Interval
A1. Push-ups	3-4 sets	10-12	45 seconds
A2. Squats	3-4 sets	5-6	45 seconds

In this scenario, one would perform a set of push-ups, rest 45 seconds, followed by a set of squats. The tactical athlete would alternate between these two movement for 3-4 sets. The sets are determined by quality of the repetitions and if they are able to stay within the designated repetition range.

Once the tactical athlete is able to perform all sets at the high end of the recommend repetition range then we suggest moving up weight or moving to a more advanced variation of the exercise.

Density Training

After asking which exercises to do, the next most popular question is, how many times? A logical question but often a loaded one. Most of us have become slaves to repetitions.

It seems that everyone is an expert. Everyone knows, of course, that you perform repetitions in the 12-20 range to tone, repetitions of 8-12 to get big, and 1-5 repetitions to get strong. It seems so simple, but there is one major issue.

Such prescriptions lead people to believe that the idea of improving muscle, losing fat, and getting stronger are all mutually exclusive. While some people may say that they just want to lose fat, get bigger, and so forth, who would not want to achieve all three goals? Who would not like to be leaner, stronger, and have more functional muscle mass? We are guessing just about nobody! We're pretty sure that anyone interested in achieving one of the above goals would also be delighted to attain all three.

This is where density training comes into play. Density is often the forgotten component in program design. Most people will focus on training variables such as volume or intensity but often leave out density. Simply put, density is the amount of work performed in a given amount of time.

You can use this concept to optimize all of your fitness goals. It begins by having a standard repetition scheme such as five (in general, do not go fewer than three or more than five) and then perform as many sets of the exercise as possible. You will want to choose a weight that typically would be your ten repetition best effort.

This is known as Escalating Density Training popularized by Strength Coach, Charles

Staley. What you will notice is that your focus shifts from counting repetitions to an increased intensity on how fast you can perform the exercise. This causes some significant changes in your training:

- 1. Your power output increases, which burns more calories than slow-paced exercise.
- 2. The quality of your work increases, which decreases your chance for injury.
- 3. You will notice a cardiovascular effect that is similar to performing interval sprinting without the pounding on the knees and lower back.
- 4. You stimulate more functional muscle mass as your volume in "big bang" exercises increases.

Lastly, you will see exercises combined either by an antagonist method or upper vs. lower body. In either case, you will have one exercise that complements and provides rest to the other. This allows you to "rest" even while you are working. This also allows you to perform more work in our 15 and 10 minute intervals.

Ladders

Ladder training represents another opportunity to get away from the standardized threesets-of-ten mentality and positively stimulate new results. Similar to density training, ladder training optimizes low-repetition work to develop strength, muscle, endurance, and fat-loss.

A ladder is a series of "mini-sets" alternated between two core movements. The ladder is a series of ascending or descending repetitions that are all performed in succession simply the only rest is when you are switching to the other exercise. The only rest becomes when all the "mini-sets" are accomplished and the rest is typically a minimum of two minutes.

What does a ladder look like? A standard ladder may look like the following:

Exercise	Reps	Sets
A1. Bear Hug Squats	1/2/3/4/5	2-3
A2. Push-ups	25/20/15/10/5	2-3

In the above scenario the tactical athlete will perform one bear hug squat, immediately followed by twenty-five push-ups, then immediately back to bear hug squats for two repetitions, etc. This back and forth ladder will continue until five bear hug squats and five push-ups are performed. At this point the tactical athlete will rest for 2 minutes.

The goal is to repeat this entire series two to three times. If the athlete can not get through the entire ladder the ladder sequence is stopped and the remaining parts of the workout are performed. This is a good sign when sufficient fatigue has been accumulated.

Power Circuit Training

Most people would like to be strong, agile, lean, and in shape, but many fail to achieve their goals because they become overwhelmed with the amount of time they must devote to their training. Power Circuit Training with is the simple solution.

Circuit training is nothing new but has been pretty much limited to high-repetition machine work. While this may improve some very basic general fitness in untrained individuals, it is far from ideal for those who want to get the body they have always fantasized about.

What is wrong with the old style of machine based circuit training? Such training does little to improve one's body composition and severely fails to develop the smaller stabilizer muscles to their fullest. This is potentially disastrous as individuals can develop severe muscle imbalances that can set them up for injury or, at the very least, not allow them to reach their ultimate fitness goals.

Additionally, a typical program that emphasizes maximal strength may require 3-5 minutes of rest in between sets. This may be good for someone looking to get into Powerlifting, Olympic lifting, or Strongman, but let's face it, most of us aren't. The majority of individuals we meet want to be well-rounded. While adhering to such protocols is important, it's not very reasonable for many of us who have time limitations on our training. Again, this is where Power Circuit Training can help tremendously.

In developing your Power Circuit Training program, you want to consider what we and Coach Keats Snideman call The Magnificent Eight Movements. The eight movements listed below should be at the core of your program. They hit the basic movement patterns of all people. If you were to follow just these, you would be in phenomenal shape! You could use deviations from each (e.g., lunges from squats, step-ups from deadlifts) but your focus should remain on these lifts.

- 1. Squat
- 2. Deadlift
- 3. Overhead Lifting (i.e. military press)
- 4. Horizontal Lifting (i.e. push-ups)
- 5. Vertical Pulling (i.e. chin-ups)
- 6. Horizontal Pulling (i.e. rows)
- 7. Trunk Flexion (i.e. sit-ups)
- 8. Rotation (i.e. Russian twists)

Obviously, you are not going to use all eight movements in your training routine, but the list does allow you a lot of variations. Below is an example based on three days of training:

Day 1: Squat Cleans Vertical Press Vertical Pulling Carry

Day 2: Snatch Single Leg Deadlift Variation Horizontal Press Horizontal Pull

Day 3:
Deadlift
Single Leg Squat Variation
Throw Drill
Vertical Press
Vertical Pull

Our recommendation is to not exceed six movements for a particular routine. Performing for than that may end up sacrificing quality and that is something we never want to risk.

Remember, more is not always better!

We have discussed the exercises and now we should talk about the repetitions and sets. Our first rule with such programming is not to have set rules. Sure, there has been a lot written about what protocols work best, but we think it would be a pretty sterile world if we never challenged these principles.

What makes our Power Circuit Training unique is that we are emphasizing lower repetition work (1-5 reps). This is done for several purposes:

1. Such repetition ranges allows us to train maximal strength and speed qualities that are

heavily reliant upon the Central Nervous System (CNS). This is very important in increasing functional muscle mass.

2. We can train multiple movement patterns without a great deterioration of quality of work being performed on each exercise.

3. Strength-endurance can be improved even though we are training strength quant hat have notoriously been viewed as counterproductive. This greatly helps in lost ody fat.					

Exer Week 1 Day 1							
Arms S	cher 6-8 each I y Row 10-12 with	eg 3-4 sets	Rest Interval 60 seconds 60 seconds				
B1. Hip B2. San Clean a Press C1. Side Plank C2. Sup	Press 10 to 15 dbag 6 to 8 20 to 30 s	2-3 sets 2-3 sets econc 2-3 sets 2-3 sets	45 seconds 45 seconds 30 seconds				
C2. Sup Plank C3. Mor Climber Day 2 A1. Sho to Squa A2. Pus	untain 30 sec	onds 2-3 sets 5 PR Zone-15 minut	30 seconds 30 seconds es As much as needed es As much as needed				
B1. San Get-up B2. San Get-up Day 3 A1.Zero	dbag Right dbag Left her 30 second	3 PR Zone-10 minut	res As much as needed 60 seconds				
A1.Zero Lateral A2. Sho to Shou Push Pr	Lunge ulder 30 second lder ess entric 4-5 reps v s	s alte 4-5 sets ith 5 2-3 sets	60 seconds 60 seconds 60 seconds 60 seconds				
Plank Week 2 Day 1 A1. Zero Squat	ther 1/2/3/4/5	2-3 ladders	90-120 seconds after ladder 90-120 seconds after ladder				
B1. Sing Leg Dea B2. Rev Flye Day 2 A1.	ddlift erse 10 to 12 30 second	leg 2-3 sets 2-3 sets s eac 3-4 sets	60 seconds 60 seconds 60 seconds				
Suspen Reverse Lunge A2. San Push Pr B1. Hip B2. Bod Pronate	dbag 30 sec ess 10 to 12 w y Row 12 to 15	onds 3-4 sets ith 2:2-3 sets 2-3 sets	60 seconds 45 seconds 45 seconds				
B3. Side Plank Day 3 A1. Pow Clean to Zercher	15 to 20 w	Repeat 2-3 series Repeat 2-3 series	90-120 seconds after ladder 90-120 seconds after ladder				
Leg Sit- B2. San Goodm Zercher B3. Suspen Triceps	dbag 12 to 15 orning 10 to 12 ded	2-3 sets 2-3 sets 2-3 sets	30 seconds 30 seconds 30 seconds				
Week 3 Day 1 A1. Sho to Front Lunge A2. Pus Feet	ulder 8-10 each	leg 3-4 sets onds 3-4 sets	45 seconds 45 seconds				
Suspen A3. Squ Thrust B1. Fall B2. San Shoveli	at 15 to 20 buts 8 to 12 wir dbag 30 sec	3-4 sets h par 2-3 sets onds 2-3 sets	45 seconds 30 seconds 30 seconds				
Lunge Zerchei A2. Bod Arms S Supinat A3. San Squat a	y Row 30 sec emi- ed dbag 30 sec	s alte 3-4 sets onds 3-4 sets onds 3-4 sets	30 seconds 30 seconds 30 seconds				
Squats		onds 3-4 sets 3-4 sets 3-4 sets	30 seconds 60 seconds 60 seconds				
B1. Suspen Leg Cui B2. Squ V-Flye B3. San Get-up	10 to 12 led ls at to 15 to 20 dbag 5 each sid	2-3 sets 2-3 sets	45 seconds 45 seconds 60 seconds				
Week 4 Off Wee Day 1 A1. Shoulde A2. Chii	5 each sid	5 2 sets	45 seconds 45 seconds 45 seconds				
A3. Ove Sandba Lunge A4. Fall Day 2 A1. Sing Leg Dea A2. Pus	puts le 8-10 each	2 sets 10 2 sets leg 2 sets 25 2 sets	45 seconds 45 seconds 45 seconds 45 seconds				
B1. Zero Lateral B2. Sing Arm Bo Row C1. Rot Deadliff	ther 10-12 each le 8-12 each ly 20-25	n leg 2 sets side 2 sets 2 sets	45 seconds 45 seconds 45 seconds				
Deadliff C2. Ben knee Si Day 3 A1. Squ Thrust A2. Arouthe Wor	t- -ups at und 20 each d	20 2 sets 20 2 sets rectic 2 sets	45 seconds 45 seconds 45 seconds				
B1. Hip B2. Rev Flye C1. Side Plank	Press 15 to 20 erse 12-15 reps	2 sets 2 sets hold 2 sets 2 sets	45 seconds 45 seconds 30 seconds 30 seconds				
Week 5 Day 1 A1. Clea Squat, Overhea Press A2. Mix Grip Pu	5/4/3/2/1 ad 5/4/3/2/1	2-4 sets 2-4 sets	90 seconds after ladder 90 seconds after ladder				
B1. Ecc Sit-ups B2. San Bear Hu Carry	entric 5 reps with dbag 1 minute of g	arry 3 sets	60 seconds 60 seconds 60 seconds				
A1. Sho Suspen Lunge A2. Sho Suspen Lunge A3. Suspen Rocker Push-u	alder 30 second 30 second 30 second with	s Left 3-4 sets ands 3-4 sets	60 seconds 60 seconds 60 seconds				
Push-up A4. Suspen Hamstr Bicycle A5. Bood Hands Supinat	30 seconded ng 30 second	onds 3-4 sets	60 seconds				
B1. Sing Leg Goodm B2.	ring 1-ups 6 reps 10-12 eac 15-20	side 3 sets 3 sets n leg 3 sets 3 sets	45 seconds 45 seconds 45 seconds 45 seconds				
Suspen Pikes B3. Suspen Triceps Extensi Week 6 Day 1 A1. Sho	12-15 repaided	3 sets	45 seconds 45 seconds 6 60 seconds				
Squats A2. Mix Grip Pu B1. Cro Lunge- Zercher B2. Suspen	5 reps 1-ups 8-10 each	leg 2-3 sets	6 60 seconds 6 60 seconds 45 seconds 45 seconds				
Suspen Flyes B3. Side Plank O Leg Suspen	15 each si	de 2-3 sets	45 seconds 90 seconds after ladder				
Chops A2. Incl Push-uj Foot Suspen B1. San Get-up B2. Sing	ne 20/15/10/s ded dbag 5 each sid Right 12 each si	2-3 sets	90 seconds after ladder 90 seconds after ladder 60 seconds 60 seconds				
Arm Bo Row B3. Sho Carry Day 3 A1. Con Clean, I Overhea	ulder 30 second pplex: Perform 5 Press, ad	s eac 3 sets	60 seconds 60 seconds 5 90 seconds				
B1. Hip B2. Jan Eccentr ups B3. Suspen	Press 15-20 da 5 reps with c Sit- 12-15 reps		3 45 seconds 3 45 seconds 3 45 seconds				
Biceps Week 7 Day 1 A1. Shoulde A2. Mix Grip Pu	ring ed 5 switch h l-ups 30 second		res as much as needed es as much as needed 45 seconds				
Suspen Lunge-I in Priso Position Hop B2. Ben Sit-ups B3. Zero Sandba	ded lands her with 30 sec	onds 3 sets	45 seconds 45 seconds 3 45 seconds				
Day 2 A1. Late Lunge A2. Bod Hands Pronate A3.	ral 8-10 each y Row 10-12 with d	leg 3-4 sets paus 3-4 sets de alt 3-4 sets	60 seconds 60 seconds				
A3. Goodm to Shou A4. Pus with on suspen going fo A5. Squ Thrust v Jump	orning der n-up 10 reps ea e-arm led rward at 20 reps	ch ar 3-4 sets 3-4 sets 3-4 sets	60 seconds 60 seconds 60 seconds				
Jump Day 3 A1. Half Snatch A2. Squ V-Flye A3. Ove Forward Lunge	at to 30 secondarhead 30 secondarhead	onds 3 sets onds 3 sets onds 3 sets	45 seconds 45 seconds 45 seconds				
Lunge A4. Suspen Alternat Knee Tu A5. Fari Carry w Water fi	30 seconded ing locks ner's 1 miled	onds 3 sets nute 3 sets	45 seconds 45 seconds				
Clean a Push Pr A2. Pull B1. Sing	ess -ups 2 reps eve		90 seconds 90 seconds 45 seconds				
Leg Dea with we opposit B2. Side Plank B Legs Suspen B3. Bea Carry	idlift ight in e arm 10 reps w oth	th 3 s 3 sets onds 3 sets	45 seconds 45 seconds				
Day 2 A1 Zero Reverse Lunge A2. Pus B1. Zero Goodm	25-30 repairs. 25-30 repairs. 25-30 repairs.	3 sets	45 seconds 45 seconds 45 seconds				
B2. Alternat Arm Fal B3. Aro the Wor Day 3 A1. Get Right	ing louts 20 each d	s alte 3 sets rectic 3 sets	45 seconds 45 seconds 5 60 seconds				
A2. Get Left B1. Suspen Leg Cui B2. Squ Low-V I B3. San	10 taking a ded ls at to 12-15 repairlye dbag 45 sec	5 sec(2-3 sets 2-3 sets ands 2-3 sets	5 60 seconds 30 seconds 30 seconds 30 seconds				
B3. San Shoveli Week 9 Day 1 A1. Suspen Rotatin Push-u	dbag 45 seconds	ch ar 5 sets	60 seconds				
A2. Pow Clean Z B1. Ben Sandba B2. Half Snatch	t-over g Row Moon 30 sec	5 sets 3 sets onds 3 sets ed sp3 sets	45 seconds 45 seconds 45 seconds				
Leg Sit- Arms Overhea Day 2 A1. Zero Lateral to Cros Lunge	cher 12 each lu	nge p3-4 sets	60 seconds				
A2. Pull B1. Zero Goodm B2. Incl Suspen Push-uj	ne 20 to 25 ded s 5 reps		60 seconds 45 seconds 45 seconds				
Get-up C2. Bea Carry C3. San Get-up Day 3 A1. Sho	Right r Hug 30 sec dbag 5 reps Left ulder 30 sec	3 sets onds 3 sets 3 sets onds 3-4 sets	0 0 120 seconds 30 seconds				
to Shou Squats A2. Bod Arms Sc Supinat A3. Spli Cleans A4. Suspen	y Row 30 second 30 second 30 second ded	onds 3-4 sets onds 3-4 sets s alte 3-4 sets s alte 3-4 sets	30 seconds 30 seconds 30 seconds 30 seconds				
Rotating Knee To A5. Run Sprint/E Sprint Week 10 Day 1 A1. Ove Suspen	icks ning 1 m like Thead 10 to 12 e	nute 3-4 sets	30 seconds 45 seconds				
Lunge A2. Pus	15-20 press	2-3 sets 2-3 sets 2-3 sets onds 2-3 sets	45 seconds 45 seconds 45 seconds 45 seconds				
C1. Suspen Side Pla Right C2. Suspen Rocker C2. Suspen Side Pla	ded nk 30 seconded 30 seconded	onds 2-3 sets onds 2-3 sets onds 2-3 sets	45 seconds 45 seconds 45 seconds				
Day 2 A1. Rote Deadlift A2. Bod Supinat	ntional 20-25 s y Row 15 to 20	2-3 sets 2-3 sets	45 seconds 45 seconds				
B1. Ove Chops B2. Suspen Triceps Extensi	12 to 15 ded nns 20 to 25 t-ups	2-3 sets 2-3 sets 2-3 sets	45 seconds 45 seconds 45 seconds				
C2. Ove Carry Day 3 A1. Sho Get-up	ulder S reps light slight slight	onds 2-3 sets 15 min PR Zone 15 min PR Zone	as much as needed as much as needed				
B1. Pull B2. Zero Squats Week 1 Day 1 A1. Shoulde	eher 15 reps 1 45 sec	10 min PR Zone 10 min PR Zone onds 4-5 sets	as much as needed as much as needed 30 seconds				
Shoulde Right Si A2. Pus to Pike A3. Shoulde Left Sid	45 sec ring e le 45 sec K Row	onds 4-5 sets onds 4-5 sets onds 4-5 sets	30 seconds 30 seconds				
A4. Sing Arm TR Right A	le 45 second 1 45	onds 4-5 sets ide 3-4 sets and 3-4 sets	30 seconds 45 seconds 45 seconds				
A4. Sing Arm TR Right A A5. Sing Arm TR Left Arr Day 2 A1. Sing Leg Ski A2. Pull	6 of each		45 seconds 45 seconds 45 seconds				
A4. Sing Arm TR Right A A5. Sing Arm TR Left Arm Day 2 A1. Sing Leg Ski A2. Pull Comple Pull-up/ up/Sem supinat B1. Sing Leg Hip B2. San Clean a	6 of each Chin- i- ed 10-12 eac Press dbag 8-10 reps	n side 3-4 sets 3-4 sets					
A4. Sing Arm TR Right A A5. Sing Arm TR Left Arr Day 2 A1. Sing Leg Ski A2. Pull Comple Pull-up/ up/Sem supinat B1. Sing Leg Hip B2. San Clean a Push Pr C1. Ben Knee Si C2. Zeri Sandba Carry Day 3	6 of each Chin- i- ed 10-12 each Press dbag nd ess 20 to 25 t- t-ups ncer 9	3-4 sets 2-3 sets ands 2-3 sets	30 seconds 30 seconds				
A4. Sing Arm TR Right A A5. Sing Arm TR Left Arr Day 2 A1. Sing Leg Ski A2. Pull Comple Pull-up/up/Sem supinat B1. Sing Leg Hip B2. San Clean a Push Pr C1. Ben Knee Si C2. Zeri Sandba Carry Day 3 A1. TRX Squat T A2. Pus A3. Goodm to Shou A4. Chin Semisupinat	6 of each Chin- i- ed 10-12 each Press dbag and ess 20 to 25 t-ups acer forming lder l-ups 30 second 30 second 30 second	3-4 sets 2-3 sets onds 2-3 sets onds 3-4 sets onds 3-4 sets s alte 3-4 sets					
A4. Sing Arm TR Right A A5. Sing Arm TR Left Arr Day 2 A1. Sing Leg Ski A2. Pull Comple Pull-up/up/Sem supinat B1. Sing Leg Hip B2. San Clean a Push Pr C1. Ben Knee Si C2. Zer Sandba Carry Day 3 A1. TRX Squat T A2. Pus A3. Goodm to Shou A4. Chii Semisupinat Grip	Chin- i- ed 10-12 each Press dbag and ess 20 to 25 t-ups acer g 30 second orning lder i-ups ad alle and	3-4 sets 2-3 sets 2-3 sets onds 2-3 sets onds 3-4 sets s alte 3-4 sets s with 3-4 sets	30 seconds 30 seconds 30 seconds 30 seconds				
A4. Sing Arm TR Right A A5. Sing Arm TR Left Arr Day 2 A1. Sing Leg Ski A2. Pull Comple Pull-up/ up/Sem supinat B1. Sing Leg Hip B2. San Clean a Push Pr C1. Ben Knee Si C2. Zer Sandba Carry Day 3 A1. TRX Squat T A2. Pus A3. Goodm to Shou A4. Chii Semisupinat Grip A5. Sho Carry w Holding Caniste opposir hand Week 1: Day 1 A1. Sho to Squa Shoulde Press A2. Pull B1. Sing	Chin- i- ed 10-12 each Press dbag and ess 20 to 25 t-ups acer g 30 second orning der a-ups and ed 60 second and and and and and and and and and a	2-3 sets 2-3 sets 2-3 sets ands 2-3 sets ands 3-4 sets ands 3-4 sets s with 3-4 sets s swiff 3-4 sets Perform as few representations Perform as few r	30 seconds 30 seconds 30 seconds 30 seconds 30 seconds				
A4. Sing Arm TR Right A A5. Sing Arm TR Left Arr Day 2 A1. Sing Leg Ski A2. Pull Comple Pull-up, up/Sem supinat B1. Sing Leg Hip B2. San Clean a Push Pr C1. Ben Knee Si C2. Zer Sandba Carry Day 3 A1. TRX Squat T A2. Pus A3. Goodm to Shou A4. Chir Semisupinat Grip A5. Sho Carry w Holding Caniste opposir hand Week 1. Day 1 A1. Sho to Squa Shoulde Press A2. Pull B1. Sing Press B2. Ben Row Gr Sandba handles B3. Suspen Side Pla Right	Chin- i- ed 10-12 each Press dbag and ess 20 to 25 t-ups acer g 30 second and and and and and and and and and a	2-3 sets 2-3 sets 2-3 sets ands 2-3 sets ands 3-4 sets alte 3-4 sets s with 3-4 sets Ferform as few recommendate in the set of the set o	30 seconds				
A4. Sing Arm TR Right A A5. Sing Arm TR Left Arm TR Left Arm Day 2 A1. Sing Leg Ski A2. Pull Comple Pull-up/up/sem supinat Supinat Supinat Clean a Push Pr C1. Ben Knee Si C2. Zeri Sandba Carry Day 3 A1. TRX Squat T A2. Pus A3. Goodm to Shou A4. Chii Semisupinat Grip A5. Sho Carry w Holding Caniste opposir hand Week 1. Day 1 A1. Should Press A2. Pull B1. Sing Press B2. Ben Row Grand Should Press A2. Pull B1. Sing Press B2. Ben Row Grandba B3. Suspen Side Pla Right B4. Suspen Side Pl	Chin- i- ed Ile 10-12 each Press Idbag 8-10 reps Ider 20 to 25 I-ups 30 second Ider 30 second Ider 30 second Ider 30 reps Ider in g Ider 10-12 with It-over pging Ider 30 second Ider 30 reps Ider 30 reps Ider 10-12 with Ider 30 second Ider 30 reps Ider 10-12 with Ider 30 second Ider 30 reps Ider 10-15	2-3 sets	30 seconds				
A4. Sing Arm TR Right A A5. Sing Arm TR Left Arr Day 2 A1. Sing Leg Ski A2. Pull Comple Pull-up, up/Sem supinat B1. Sing Leg Hip B2. San Clean a Push Pr C1. Ben Knee Si C2. Zerl Sandba Carry Day 3 A1. TRX Squat T A2. Pus A3. Goodm to Shou A4. Chin Semi-supinat Grip A5. Sho Carry w Holding Caniste opposir hand Week 1: Day 1 A1. Sho to Squa Shoulde Press A2. Pull B1. Sing Press B2. Ben Row Gr Sandba handles B3. Suspen Side Pla Right B4. Suspen Side Pla Right B6. Sing Press B7. B8. B8. B8. B8. B8. B8. B8. B8. B8. B8	Chin- i- ed Ile 10-12 each Press Idbag 8-10 reps Ideas 60 second Incer Idea 30 second Idea 30 second Idea 60 second Idea 30 reps Idea 10-12 with Idea 6-8 each I Incer Idea 10-15 reps Idea 10-15 reps Idea 10-12 with Idea 1	2-3 sets 2-3 sets 2-3 sets ands 2-3 sets ands 3-4 sets s with 3-4 sets s with 3-4 sets Perform as few related as sets Perform as few related as sets and 2-3 sets	30 seconds				
A4. Sing Arm TR Right A A5. Sing Arm TR Left Arr TR Left Arr Day 2 A1. Sing Leg Ski A2. Pull Comple Pull-up, up/Sem supinat B1. Sing Leg Hip B2. San Clean a Push Pr C1. Ben Knee Si C2. Zeri Sandba Carry Day 3 A1. TRX Squat T A2. Pus A3. Goodm to Shou A4. Chin Semisupinat Grip A5. Sho Carry w Holding Caniste opposir hand Week 1: Day 1 A1. Sho to Squa Shoulde Press B2. Ben Row Gr Sandba handles B3. Suspen Side Pla Right B4. Suspen S	Chin- i-	2-3 sets 3-4 sets 3-4 sets S swit 3-4 sets Perform as few related as sets 2-3 sets	30 seconds 45 seconds 45 seconds				
A4. Sing Arm TR Right A A5. Sing Arm TR Right A A5. Sing Arm TR Left Arr Day 2 A1. Sing Leg Ski A2. Pull Comple Pull-up, up/Sem supinat B1. Sing Leg Hip B2. San Clean a Push Pr C1. Ben Knee Si C2. Zer Sandba Carry Day 3 A1. TRX Squat T A2. Pus A3. Goodm to Shou A4. Chin Semi-supinat Grip A5. Sho Carry w Holding Caniste opposir hand Week 1. Day 1 A1. Sho to Squa Shoulde Press A2. Pull B1. Sing Press B2. Ben Row Gr Sandba handles B3. Suspen Side Pla Right B4. Suspen Side Pla Righ	Chin- i-	2-3 sets 3-4 sets 3-4 sets 2-3 sets 3-4 sets	30 seconds 45 seconds 45 seconds 45 seconds 45 seconds 45 seconds				
A4. Sing Arm TR Right A A5. Sing Arm TR Right A A5. Sing Arm TR Left Arr Day 2 A1. Sing Leg Ski A2. Pull Comple Pull-up/up/Sem supinat B1. Sing Leg Hip B2. San Clean a Push Pr C1. Ben Knee Si C2. Zerl Sandba Carry Day 3 A1. TRX Squat T A2. Pus A3. Goodm to Shou A4. Chii Semi-supinat Grip A5. Sho Carry w Holding Caniste opposir hand Week 1 Day 1 A1. Sho to Squad Shoulde Press A2. Pull B1. Sing Press B2. Ben Row Gr Sandba handles B3. Suspen Side Pla Left Day 2 A1. Spli Clean A2. Incl Press B2. Ben Row Gr Sandba handles B3. Suspen Side Pla Left Day 2 A1. Spli Clean A2. Incl Press B2. Ben Row Gr Sandba handles B3. Suspen Side Pla Left Day 2 A1. Spli Clean A2. Incl Press B2. Ben Row Gr Sandba handles B3. Suspen Side Pla Left Day 2 A1. Spli Clean A2. Incl Press B3. Suspen Side Pla Left Day 2 A1. Spli Clean A2. Incl Press B3. Suspen Side Pla Left Day 2 A1. Spli Clean A2. Incl Press B3. Suspen Side Pla Left Day 3 A1. Suspen Side Pla Left Day 4 A1. Suspen Side Pla Left Day 5 A1. Suspen Side Pla Left Da	Chin- i-	2-3 sets 2-4 sets 3-4 sets 3-4 sets 2-3 sets Perform as few replaced and a sets 2-3 sets 3-4 sets 3-5 sets 3-6 sets 3-7 sets 3-8 sets 3-9 sets 3-9 sets 3-1 sets 3-1 sets 3-1 sets 3-2 sets 3-3 sets 3-3 sets	30 seconds 45 seconds				
A4. Sing Arm TR Right A A5. Sing Arm TR Right A A5. Sing Arm TR Left Arr Day 2 A1. Sing Leg Ski A2. Pull Comple Pull-up/up/sem supinat B1. Sing Leg Hip B2. San Clean a Push Pr C1. Ben Knee Si C2. Zeri Sandba Carry Day 3 A1. TRX Squat T A2. Pus A3. Goodm to Should Grip A5. Sho Carry w Holding Caniste opposir hand Week 1: Day 1 A1. Sho to Squa Should Press A2. Pull B1. Sing Press B2. Ben Row Gr Sandba handles B3. Suspen Side Pla Left Day 2 A1. Spli Clean A2. Incl Push-up Feet Suspen Side Pla Left Day 2 A1. Spli Clean A2. Incl Push-up Feet Suspen Side Pla Left Day 2 A1. Spli Clean A2. Incl Push-up Feet Suspen Side Pla Left Day 2 A1. Spli Clean A2. Incl Push-up Feet Suspen Side Pla Left Day 2 A1. Spli Clean A2. Incl Push-up Feet Suspen Side Pla Left Day 2 A1. Spli Clean A2. Incl Push-up Feet Suspen Side Pla Left Day 2 A1. Spli Clean A2. Incl Push-up Feet Suspen Side Pla Left Day 2 A1. Spli Clean A2. Incl Push-up Feet Suspen Side Pla Left Day 3 A1. Spli Clean A2. Incl Push-up Feet Suspen Side Pla Left Day 3 A1. Spli Clean A2. Incl Push-up Feet Suspen Side Pla Left Day 3 A1. Spli Clean A2. Incl Push-up Feet Suspen Side Pla Left Day 3 A1. Spli Clean A2. Incl Push-up Feet Suspen Side Pla Left Day 3 A1. Spli Clean A2. Incl Push-up Feet Suspen Side Pla Left Day 3 A1. Spli Clean A2. Incl Push-up Feet Suspen Side Pla Left Susp	Chin- i- ed Ile Press Ibag 8-10 reps Ibag 60 second Ibag 30 second Ibag 30 second Ibag 30 second Ibag 30 second Ibag 60 second Ibag 60 second Ibag 7 in 9 Ibag 30 reps Ibag 10-12 with Ibag 10-13 with Ibag 10-15 reps Ibag	2-3 sets 2-4 sets 3-4 sets 3-4 sets 2-3 sets Perform as few replaced and a sets 2-3 sets 3-4 sets 3-5 sets 3-6 sets 3-7 sets 3-8 sets 3-9 sets 3-9 sets 3-1 sets 3-1 sets 3-1 sets 3-2 sets 3-3 sets 3-3 sets	30 seconds 45 seconds				

EEK ↓ DAY →	1 1	2	2	ent Preparation (6	<u> </u>
1	RUN 3 MILES@ 8:30		4X400 Meters in 100	RUN 2 MILES in 15	3	6-MILE RUCKSACK	
	min/mile pace	HIKE WITH 50LB LOAD	seconds, 400M easy between.	minutes	DAY OFF	MARCH, 17MIN/MI 50LB LOAD	DAY OFF
2	RUN 3 MILES@ 8:00 min/mile pace	1-HR RUCKSACK HIKE WITH 50LB LOAD	4X400 Meters in 100 seconds, 400M easy between.	RUN 2 MILES in 15 minutes	DAY OFF	6-MILE RUCKSACK MARCH,16MIN/MI 60 LB LOAD	DAY OFF
3	RUN 3 MILES@ 7:45 min/mile pace	1-HR RUCKSACK HIKE WITH 50LB LOAD	4X400 Meters in 100 seconds, 200M easy between.	RUN 2 MILES in 15 minutes	DAY OFF	10-MILE RUCKSACK MARCH, 16MIN/MI 50LB LOAD	DAY OFF
4	RUN 4 MILES@ 8:30 min/mile pace	1-HR RUCKSACK HIKE WITH 55LB LOAD	4X400 Meters in 95 seconds, 400M easy between.	RUN 2 MILES in 14 minutes	DAY OFF	10-MILE RUCKSACK MARCH, 15MIN/MI 60LB LOAD	DAY OFF
5	RUN 4 MILES@ 8:00 min/mile pace	1-HR RUCKSACK HIKE WITH 55LB LOAD	4X400 Meters in 95 seconds, 400M easy between.	RUN 2 MILES in 14 minutes	DAY OFF	12-MILE RUCKSACK MARCH, 17MIN/MI 50LB LOAD	DAY OFF
6	RUN 4 MILES@ 7:45 min/mile pace	1-HR RUCKSACK HIKE WITH 55LB LOAD	4X400 Meters in 95 seconds, 200M easy between.	RUN 2 MILES in 14 minutes	DAY OFF	12-MILE RUCKSACK MARCH, 15MIN/MI 60LB LOAD	DAY OFF
7	RUN 5 MILES@ 8:30 min/mile pace	1-HR RUCKSACK HIKE WITH 60LB LOAD	4X400 Meters in 90 seconds, 400M easy between.	RUN 2 MILES in 13 mins or your best pace if slower.	DAY OFF	15-MILE RUCKSACK MARCH, 17MIN/MI 50LB LOAD	DAY OFF
8	RUN 5 MILES@ 8:00 min/mile pace	1-HR RUCKSACK HIKE WITH 60LB LOAD	4X400 Meters in 90 seconds, 200M easy between.	RUN 2 MILES in 13 mins or your best pace if slower.	DAY OFF	15-MILE RUCKSACK MARCH, 15MIN/MI 60LB LOAD	DAY OFF
9	RUN 5 MILES@ 7:45 min/mile pace	1-HR RUCKSACK HIKE WITH 60LB LOAD	4X400 Meters in 90 seconds, 200M easy between.	RUN 2 MILES in 13 mins or your best pace if slower.	DAY OFF	15-MILE RUCKSACK MARCH, 15MIN/MI 60LB LOAD	DAY OFF
10	RUN 6 MILES@ 8:30 min/mile pace	1-HR RUCKSACK HIKE WITH 65LB LOAD	4X400 Meters in 85 seconds, 200M easy between.	RUN 2 MILES in 12 mins or your best pace if slower.	DAY OFF	15-MILE RUCKSACK MARCH, 14MIN/MI 65 LB LOAD	DAY OFF
11	RUN 6 MILES@ 8:00 min/mile pace	1-HR RUCKSACK HIKE WITH 65LB LOAD	4X400 Meters in 85 seconds, 200M easy between.	RUN 2 MILES in 12 mins or your best pace if slower.	DAY OFF	10-MILE RUCKSACK MARCH, 14MIN/MI 65LB LOAD	DAY OFF
12	RUN 6 MILES@ 7:45 min/mile pace	1-HR RUCKSACK HIKE WITH 65LB LOAD	4X400 Meters in 85 seconds, 200M easy between.	RUN 2 MILES in 12 mins or your best pace if slower.	DAY OFF	6-MILE RUCKSACK MARCH, 13MIN/MI 65LB LOAD	DAY OFF