

AMERICA'S ARMY: Approved for Public Release Globally Responsive, Regionally Engaged





Revolutionizing training and preparation for Multi-Domain Operations through, Holistic Health and Fitness, the new Army Combat Fitness Test and other initiatives out of the Center for Initial Military Training

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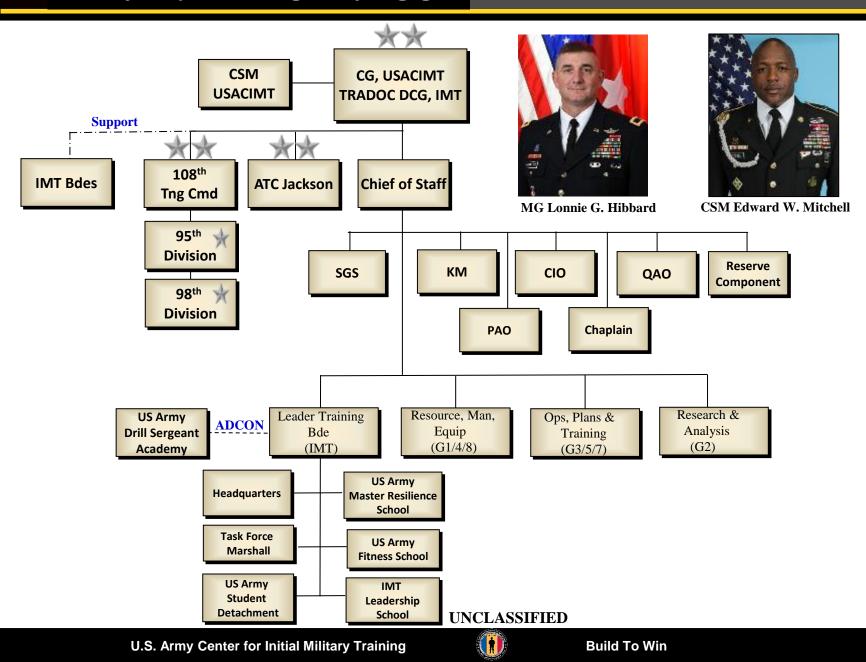
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## **USACIMT** Organization







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## **Leader Training Brigade**









#### • US Army Physical Fitness School

- Master Fitness Trainer Course
- FM 7-22, Army Physical Readiness Training

#### US Army Master Resilience School

- Level I and Level II courses
- Aligned with Comprehensive Soldier and Family Fitness
- Aligned with Ready & Resilient Campaign (R2C)

#### IMT Leadership School

- > TRADOC IET Pre Command Course
- > TRADOC Company Cdr / First Sergeant Course
- TRADOC cadre and staff courses

#### US Army Drill Sergeant Academy

- Train the Trainers
- Task Force Marshall (Camp McCrady Training Ctr)
  - > Navy Mobilization Basic skills refresher
- US Army Student Detachment

   C2 over 2600 students in Education worldwide

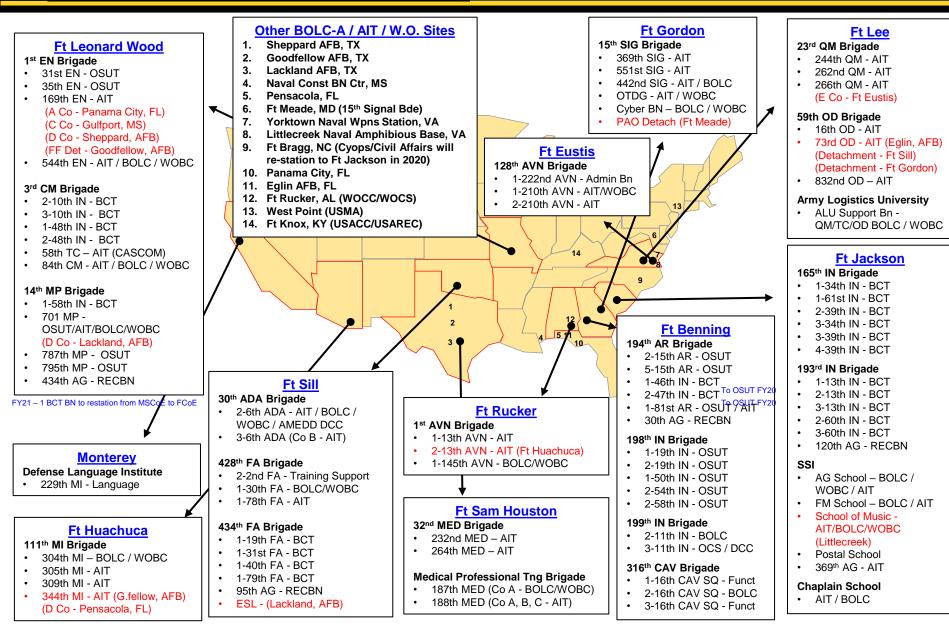




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## **Where We Train**





#### RED TEXT = Alternate Site



What's the problem?



- 1 in 20 Soldiers fail APFT
- 56,000 Soldiers non-deployable
  - 4% medically non-available
  - 5% limited duty profile
- 52% of all Soldiers will experience injury this year
- 17% of AC Soldiers are obese
  - 48% more likely to experience injury
  - 86% increased chance of being medically non-available
- MSKI affects 55% of Soldiers annually
  - Equates to 10M limited duty days
  - A 1% reduction of non-available rate saves \$30 million
- 31% of Soldiers who fail OPAT become injured
- 70% of people between the age of 17-24 unqualified for military service
  - 31% due to obesity

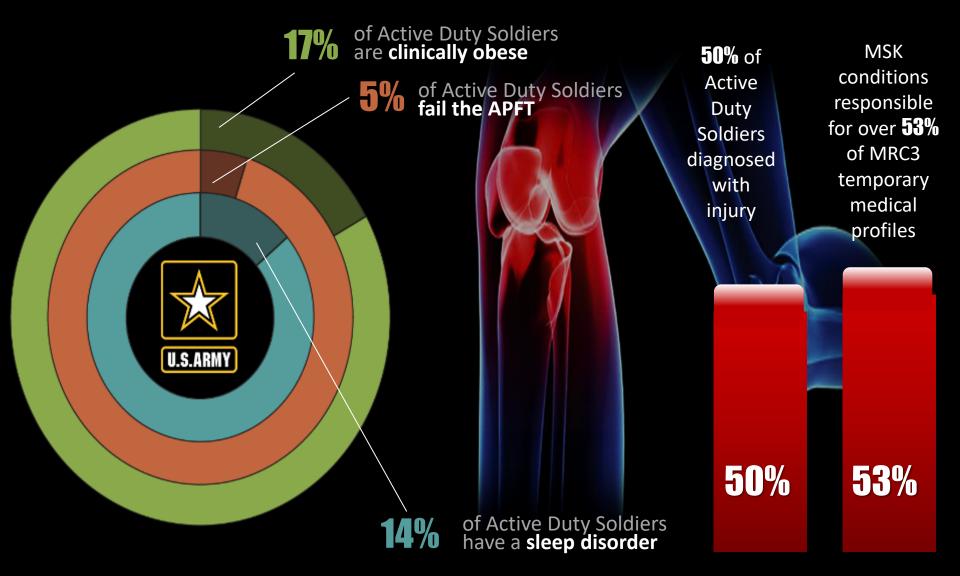


"The capacity and capability of the Soldier on today's battlefield is threatened by poor health and lack of physical readiness" GEN Milley, 39<sup>th</sup> CSA

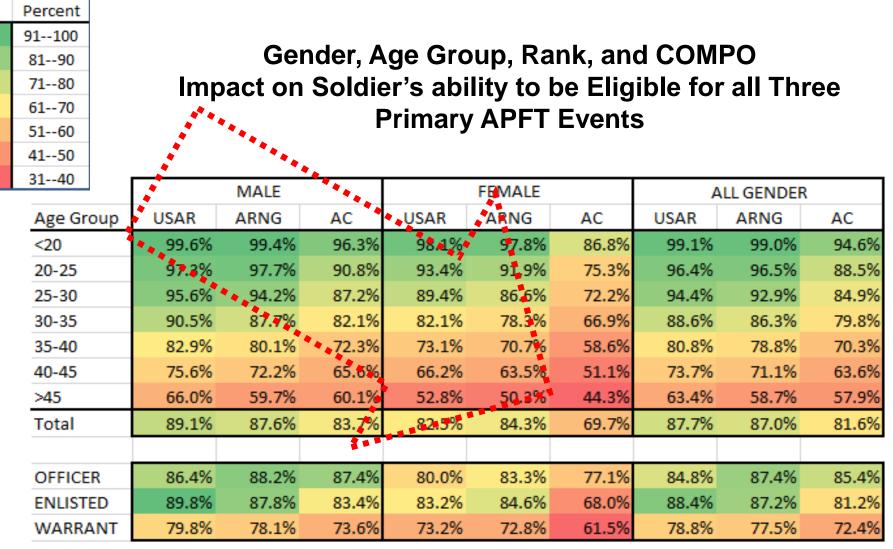


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## Current State of the Active Army







POC: Dr. Michael J. Carino, OTSG PA&E Source: MODS Mainframe, 28 February 2019





# There is considerable evidence that our Soldier lacks the physical conditioning and stamina we will require for the modern battlefield. We must do something about this now!

Infantry Magazine - 1958





## Why Change? Testimony from the Field

It was April 2004, the second month I was in Iraq, when I realized the physical training we had been working so hard at was truly failing us at the worst possible moment.

We were clearing houses, came under fire and had to maneuver down 75 meters in a ditch through moderate vegetation, only to come to a 5.5' wall, under full combat load.

I had never been so exhausted in my entire life, and I will never forget the feeling of collapsing at that wall, my lungs screaming for air, staring at a wall I could peer over but I couldn't get over.

Keep in mind I could roll out of bed and score a 290-310 on the APFT any day of the week.

Zach Bowen CPT, MI, US Army Reserve Commander, 295th Ordinance Company









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## Holistic Health and Fitnes



An enterprise-wide "system" that combines all aspects of physical and non-physical human performance under a <u>single governance</u> to enable <u>commanders</u> to improve Soldier health and fitness for combat.



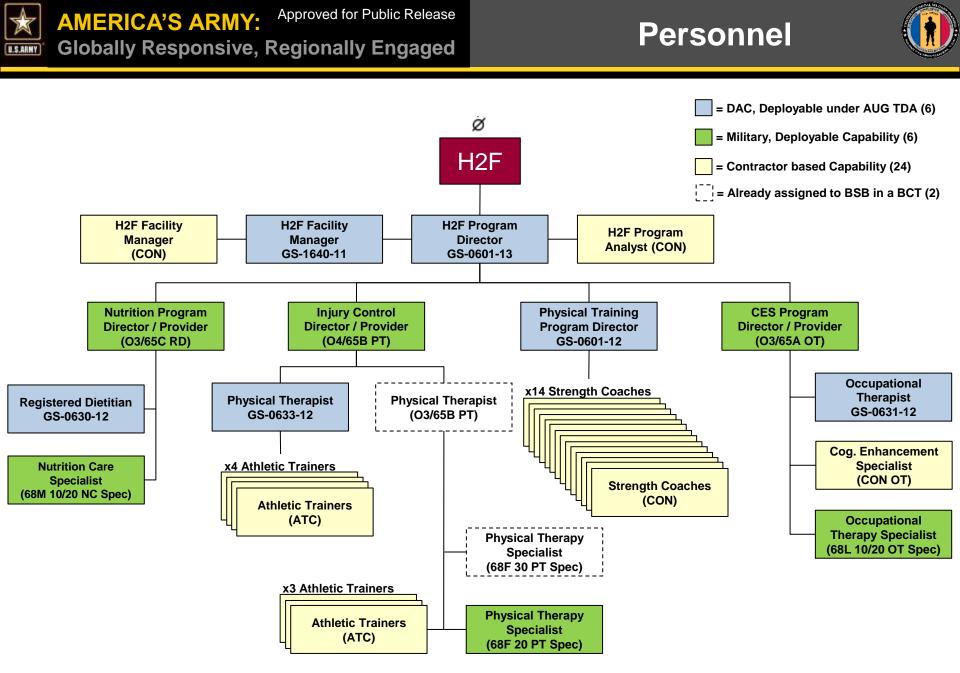


- Supports Soldiers with:
  - Expert personnel (PT, OT, Dietician, Athletic Trainer, Strength and Conditioning Specialist, Cognitive Performance Specialist)
  - Medical care
  - Equipment and facilities
  - Governance
- Trains Soldiers with individualized and periodized training plans
- Provides comprehensive, integrative, and immersive holistic approach to Soldier readiness
- Based upon comprehensive and evaluated scientific research











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## Holistic Health & Fitness (H2

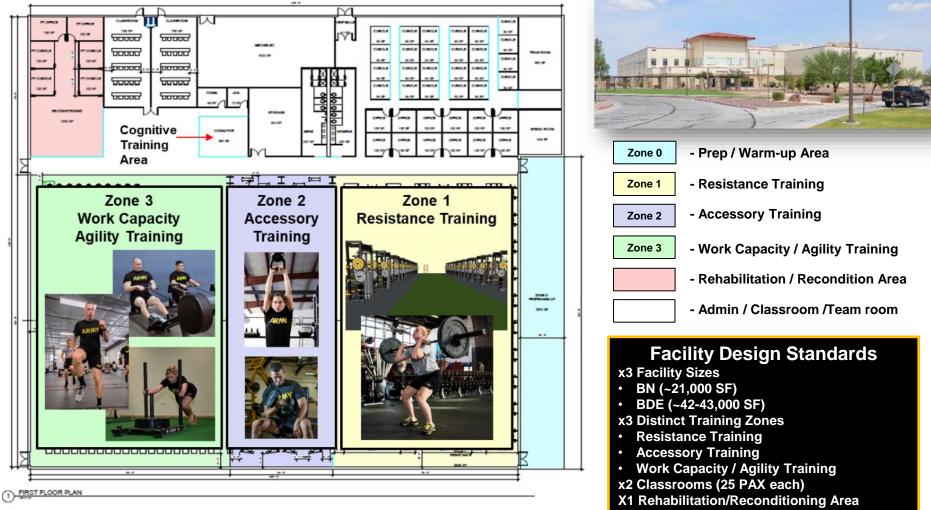
H2F Campus Concept







## **Soldier Performance Readiness Center (SPRC)**



x1 Cognitive Training Area



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# Holistic Health and Fitness (H2F)



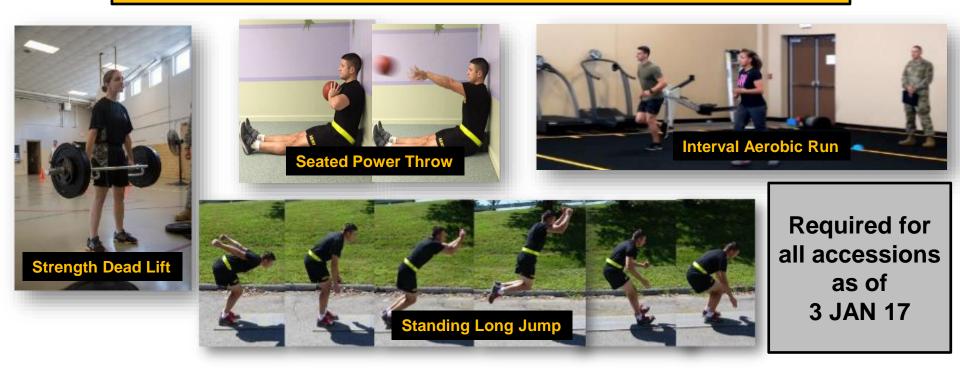
# Occupational Physical Assessment Test (OPAT)





The Occupational Physical Assessment Test (OPAT) is a four (4) event test, given at the point of accession (i.e. recruiting centers, ROTC detachments, U.S. Military Academy, and Officer Candidate School) to determine if the recruit meets the MOS pre-training standard for fitness.

> Given prior to initial military training, the applicants may re-test as many times as needed but must meet standard 90 days before shipping to training. Fitness to Train, not Fitness to Serve





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#### Pre-training level of fitness

#### Heavy Physical Demand

Frequently / Constantly lift 41 lbs and above <u>or</u> any Frequent , Constant tasks 100 lbs or more <u>with</u> Occasional tasks over 100 lbs.

Significant Physical
Demand

Frequently / Constantly lifts 41lbs-99lbs; with or without Occasional tasks up to 100 lbs

Moderate Physical Demand	
Domand	
requently / Constantly lifts up	

Frequently / Constantly lifts up to 40 lbs or when <u>all</u> physical demands are occasional

<b>BLACK - High Physical Demand</b>		
Standing Long Jump	160cm	5'3"
Seated Power Throw	450cm	14'9"
Strength Deadlift	160lbs	
Interval Aerobic Run	43 shutt	les (6-2)

GRAY – Significant Physical Demand		
Standing Long Jump	140cm	4'7"
Seated Power Throw	400cm	13'1"
Strength Deadlift	<b>140</b> l	bs
Interval Aerobic Run	40 shuttles (5-8)	

GOLD – Moderate Physical Demand		
Standing Long Jump	120cm	3'11"
Seated Power Throw	350cm	11'6"
Strength Deadlift	120	lbs
Interval Aerobic Run	36 shuttles (5-4)	

#### **Military Occupational Specialties**

Infantry, Armor, Motor Transport Operator, Cavalry Scout, Armor Crew Member, and others

Rocket System Crew Member, Military Police, Combat Medic, Watercraft Engineer, Petroleum Supply Specialist, Wire Systems Installer, and others

Plumber, Dental Specialist, Pharmacy Specialist, Ammunition Specialist, Tracked Vehicle Repairer, Logistical Specialist, Air Traffic Control Repair Specialist, Fire Control Repairer, and others

Currently Unprepared to meet Physical Demands / Unprepared to Ship to Training - WHITE



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# Holistic Health and Fitness (H2F)



# Army Combat Fitness Test (ACFT)



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# ACFT

**Purpose:** Assess a Soldier's physical performance capability within components of combat fitness

# **Objectives**

- 1. Improve individual Soldier readiness
- 2. Transform the culture of Army fitness
- 3. Reduce preventable injuries and attrition
- 4. Enhance mental toughness and stamina
- 5. Contribute to increased unit readiness



### ACFT scoring is both gender and age neutral



## **Criterion Validation**

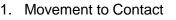


**Predictive** Tests:

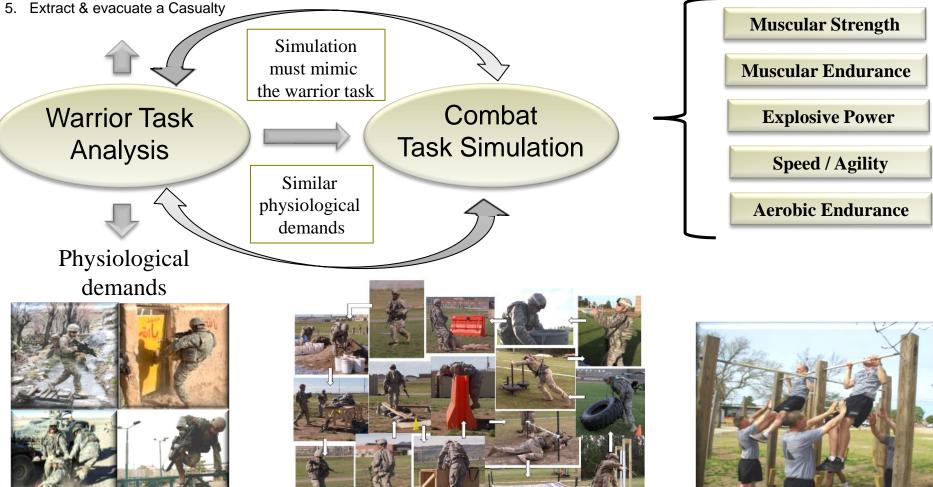
must successfully predict task

simulation performance





- **Build Fighting Position** 2.
- Move O/U/A/T in Urban Terrain 3.
- React to man-on-man contact 4
- 5.





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# WTBD/CST Word Picture





Warrior Tasks and Battle Drills Simulation Test

#### **1- Movement to contact**

#### 2- Build a hasty fighting position



**3-** Move over-under-around-through obstacles on uneven terrain















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# WTBD Simulation Test con'

#### 4. Employ progressive levels of strength / power (man-man contact)



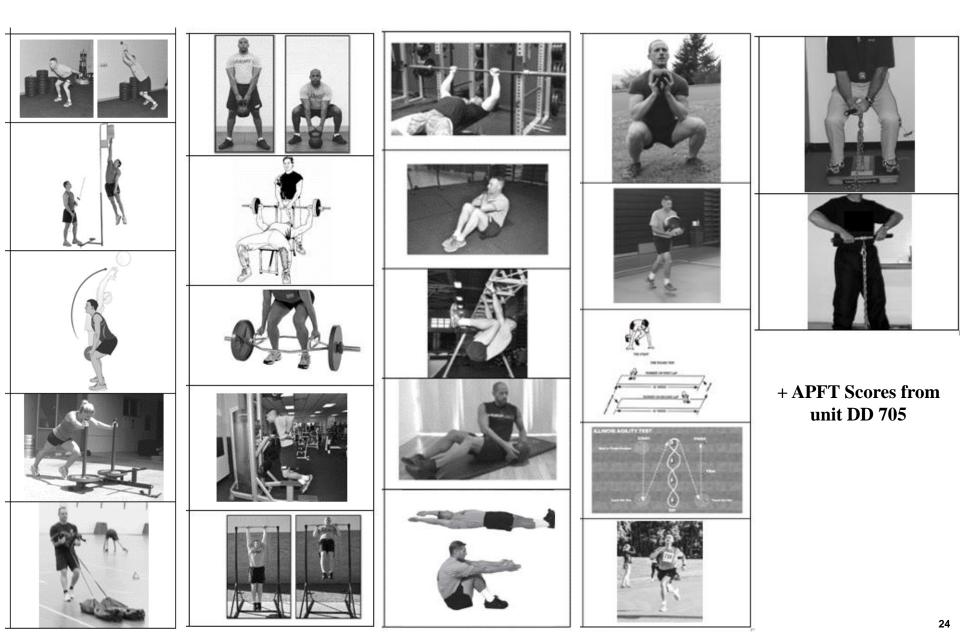
#### 5. Extract – Evacuate a casualty





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# Physical Capacity Predictor





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# Question #1: What are the physical fitness constructs of combat

### **Muscular Strength**

Lift, carry, drag heavy loads





### **Muscular Endurance**

Move quickly over, under, around, through obstacles

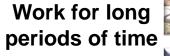
#### **Speed - Agility**







#### **Aerobic Endurance**





Move for long distances over uneven terrain under load









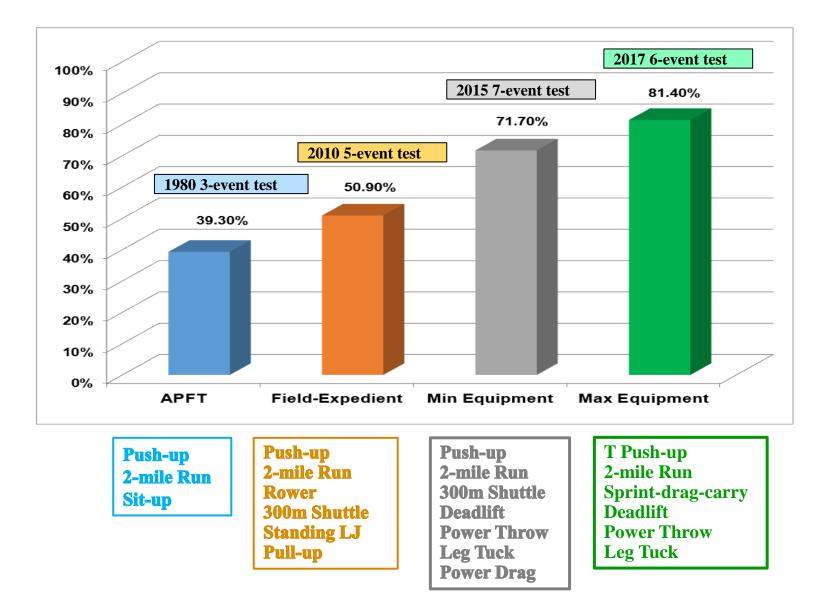
#### **Explosive Power**

Generate and apply force





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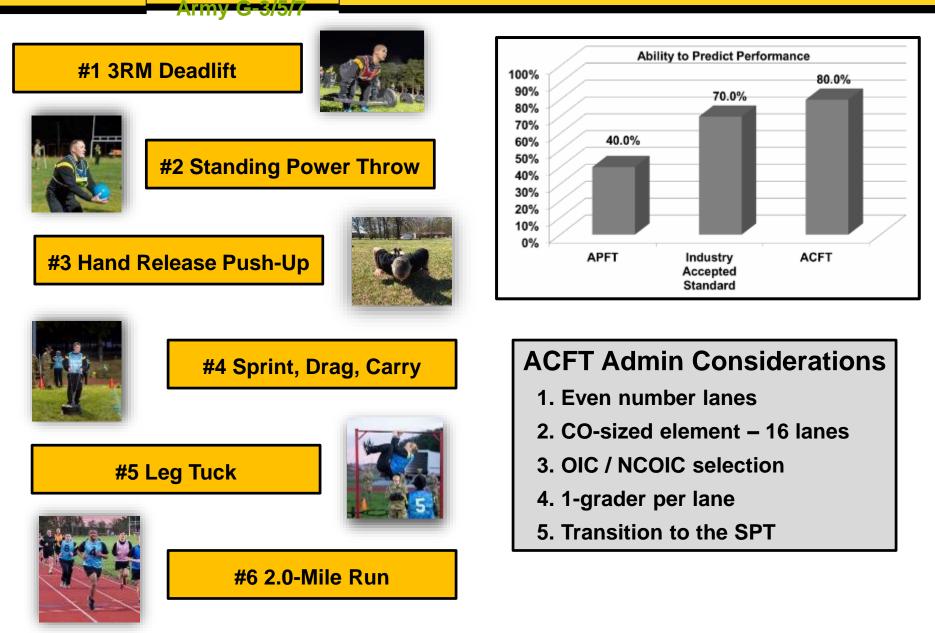


#### 

Army Combat Fitness Test

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**Test Execution** 



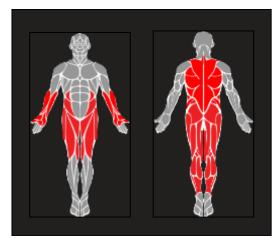


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## Army Combat Fitness Test

**3 Repetition Maximum Deadlift** 







- **Task:** Execute the 3 repetition maximum (RM) deadlift event to assess lower-body strength
- **Condition:** Given a hexbar, weight plates, and barbell collars totaling up to 460lbs in an outdoor or indoor testing environment
- **Standard:** Within five (5) minutes, conduct three (3) repetitions of the MDL maintaining proper lifting form throughout the movement IAW FM 7-22, App A to meet the ACFT scoring standards

#### Component of Fitness: Muscular Strength

- <u>Definition</u>: the maximum amount of force that can be generated by a muscle or muscle group
- <u>Secondary Component of Fitness</u>: flexibility
- <u>Anatomical Focus</u>: knee extension, hip extension, grip, lower back

#### Application to Common Soldier Tasks (CST)

 Lifting heavy loads off the ground; casualty extraction/evacuation; carrying/transporting heavy loads (155mm artillery rounds, ammo boxes, etc.)

- Relevant Principles for Event Selection
  - 1. <u>Efficacy</u>: Highly predictive test to assess for lower body / core muscular strength
  - 2. <u>Safety</u>: Hexbar (vs Olympic bar) provides better anatomical position for proper lifting controls for injury
  - 3. <u>Ease of Administration</u>: Requires one (1) grader per lane; event time ~5:00 min per Soldier
  - 4. Grading: Simple to grade, replicate over time/space



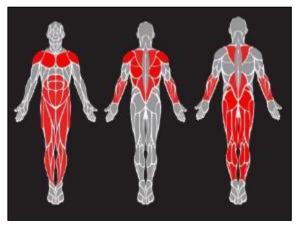


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### Army Combat Fitness Test ACFT – Standing Power Throw (SPT)



- **Task:** Execute the SPT event to assess upper and lower body explosive power
- **Condition:** Given a 10lb medicine ball and tape measure in an outdoor or indoor testing environment
- **Standard:** Within three (3) minutes, conduct one (1) practice and two (2) record SPTs using proper movement technique IAW FM 7-22, App A to meet the ACFT scoring standards
- Component of Fitness: Explosive Power
  - <u>Definition</u>: generating maximal force in the shortest time
  - <u>Secondary Component of Fitness</u>: balance, coordination, flexibility
  - <u>Anatomical Focus</u>: knee extension, hip extension, grip, lower back
- Application to Common Soldier Tasks (CST)
  - Mounting obstacles or vehicles; lifting Soldiers up/onto/over obstacles or vehicles; lifting loads off the ground and up/onto a vehicle or platform; jumping, leaping, climbing over obstacles; throwing a grenade



- Relevant Principles for Event Selection
  - <u>Efficacy</u>: Highly predictive test assessing upper and lower body power required for Common Soldier Tasks (CSTs); strong driver for upper and lower body power training
  - 2. <u>Safety</u>: A "prepatory drill" and 50% effort practice throw prior to event mitigates risk of injury
  - 3. <u>Ease of Administration</u>: Requires one (1) grader and one (1) marker per lane; event time ~3:00 min per Soldier
  - 4. Grading: Simple to grade, replicate over time/space





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## Army Combat Fitness Test ACFT – Hand Release Push-Up (HRPU)



- **Task:** Execute the timed HRPU (Arm Extension) event to assess muscular endurance
- Condition: Given a stopwatch in an outdoor or indoor testing environment
- **Standard:** Conduct as many repetitions as possible in two (2) minutes utilizing proper movement technique IAW FM 7-22, App A to meet the ACFT scoring standards

#### Component of Fitness: Muscular Endurance

- <u>Definition</u>: the ability of a muscle or muscle group to repetitively perform work for an extended period of time to volitional fatigue
- <u>Secondary Component of Fitness</u>: flexibility
- <u>Anatomical Focus</u>: elbow extension, shoulder flexion and extension
- Application to Common Soldier Tasks (CST)
  - Pushing loads up/onto/over obstacles; employing progressive levels of force; load carriage; dynamic balance under load

- Relevant Principles for Event Selection
  - 1. <u>Efficacy</u>: Better predictive test assessing upper body endurance than the current APFT push-up; strong driver for upper body/core strength training
  - 2. <u>Safety</u>: Minimal risk for injury with proper training program
  - 3. <u>Ease of Administration</u>: Requires one (1) grader per lane; event time = 2:00 min per Soldier
  - 4. Grading: Simple to grade, replicate over time/space





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### Army Combat Fitness Tes ACFT – Spring, Drag, Carry (SDC)



#### **Relevant Principles for Event Selection**

- 1. <u>Efficacy</u>: Highly predictive test assessing anaerobic power and endurance; strong driver for high intensity anaerobic training
- 2. <u>Safety</u>: Minimal risk for injury with proper training program; lateral shuttle in lap three (3) reduces the fall risk linked with lower leg muscle fatigue
- Ease of Administration: Requires one (1) grader and one (1) lane safety per two (2) lanes; event time ~4:00 min per Soldier
- 4. <u>Grading</u>: Simple to grade, replicate over time/space

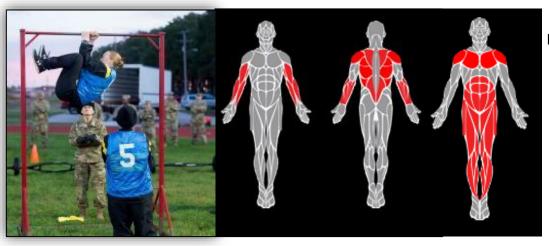
- Task: Execute the timed SDC event to assess muscular strength and endurance, and anaerobic power and endurance
- **Condition:** Given a 25m lane, one (1) drag sled, two (2) 45lb weight plates, two (2) 40lb kettlebells, and a stopwatch in an outdoor or indoor testing environment
- **Standard:** Within four (4) minutes, conduct five (5) x 50m shuttles for time in the following order 50m sprint, 50m sled drag, 50m lateral shuttle, 50m kettlebell carry, 50m sprint IAW FM 7-22, App A
- Component of Fitness: Muscular Endurance and Strength, Anaerobic Power, Anaerobic Endurance
  - <u>Definition</u>: sustained moderate to high intensity muscular work over short duration
  - <u>Secondary Component of Fitness</u>: reaction time, coordination, agility, balance, flexibility
  - <u>Anatomical Focus</u>: knee extension, hip extension, grip, lower back, shoulders
- Application to Common Soldier Tasks (CST)
  - Moving quickly over uneven terrain under load; moving over/around/through obstacles; casualty extraction/evacuation; moving supplies or ammunition; 3-5 second rushes





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### Army Combat Fitness Test ACFT – Leg Tuck (LTK)



#### **Relevant Principles for Event Selection**

- <u>Efficacy</u>: Highly predictive test assessing upper body/grip/core strength and endurance; greater functionality compared to alternative events; improves dynamic balance and mobility; contributes significantly to the prevention of over-use load carriage injuries
- 2. <u>Safety</u>: Minimal risk for injury since the Soldiers feet/legs remain under the base of support
- 3. <u>Ease of Administration</u>: Requires one (1) grader per lane; event time ~2:00 min per Soldier
- 4. Grading: Simple to grade, replicate over time/space

- Task: Execute the LTK event to assess muscular endurance
- **Condition:** Given a 7.5ft high x 5ft wide pull-up bar or climbing pod in an outdoor or indoor testing environment
- **Standard:** Within two (2) minute, conduct as many LTKs as possible utilizing proper movement technique IAW FM 7-22, App A to meet the ACFT scoring standards
- Component of Fitness: Muscular Endurance
  - <u>Definition</u>: the ability of a muscle or muscle group to repetitively perform work for an extended period of time to volitional fatigue
  - Secondary Component of Fitness: flexibility
  - Anatomical Focus: knee flexion, hip flexion, grip, abdominals
- Application to Common Soldier Tasks (CST)
  - Climbing up/onto/over vehicles or obstacles; traversing rope/ladder bridges; load carriage; dynamic balance under load



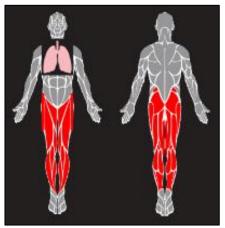


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#### Army Combat Fitness Test ACFT – 2-Mile Run (2MR)







- Task: Execute a timed 2MR to assess aerobic endurance
- **Condition:** Given a measured and generally flat, outdoor 2.0-mile course and stopwatch or outdoor race clock
- Standard: Execute the timed 2MR utilizing proper running skill IAW FM 7-22, App A to meet the ACFT scoring standards
- Component of Fitness: Aerobic Endurance
  - <u>Definition</u>: the ability to exercise large muscle groups at a level somewhere between moderate and high intensity for more than a few minutes
  - Secondary Component of Fitness: None
  - <u>Anatomical Focus</u>: knee flexion-extension, hip flexionextension

#### Application to Common Soldier Tasks (CST)

 Moving long distances over uneven terrain under load; recovery from high intensity movements such as 3-5 second rushes; movement under fire



- Relevant Principles for Event Selection
  - 1. <u>Efficacy</u>: Highly predictive test assessing for measuring aerobic endurance
  - 2. Safety: Minimal risk for injury
  - 3. <u>Ease of Administration</u>: Requires one (1) grader per course; separate 2MR graders are authorized; event time ≤ 21:07 min per Soldier
  - 4. Grading: Simple to grade, replicate over time/space



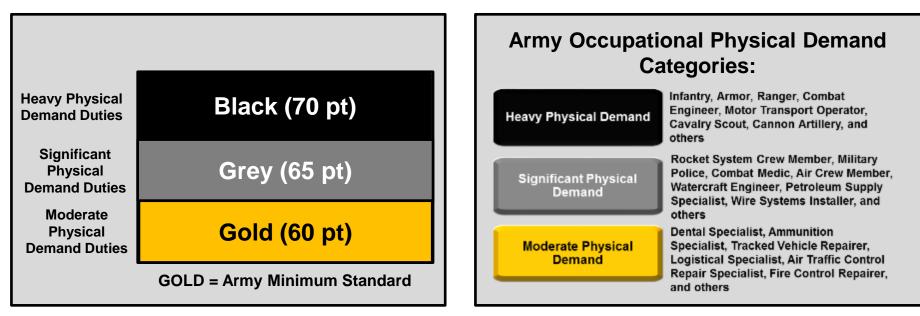


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### **Scoring Category Principles**

- 1. Based on requirements by unit and/or individual occupational physical demands
- 2. Maintains occupational fitness requirements for <u>close combat battalion and below</u> <u>units</u> regardless of age or gender (Black & Grey categories)



#### National Defense Authorization Act (NDAA) – 2015

GENDER-NEUTRAL OCCUPATIONAL PERFORMANCE STANDARDS: "...the Secretary of Defense – (1) shall ensure that <u>qualification of members of the Armed Forces for, and continuance of members of</u> <u>the Armed Forces in, that occupational career</u> field is evaluated on the basis of common, relevant performance standards, <u>without differential standards or evaluation on the basis of gender</u>."

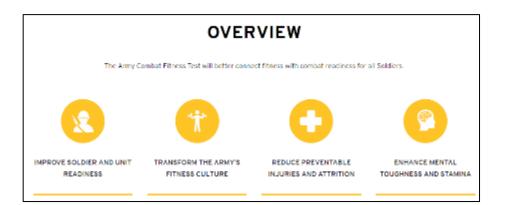


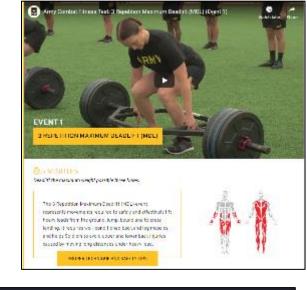
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# AMERICA'S ARMY: Approved for Public Release Globally Responsive, Regionally Engaged ACFT Guidance and Resources



# Web Link: www.army.mil/ACFT





#### Frequently Asked Questions | READ MORE >> ARMY COMBAT FITNESS TEST EVENTS **3 REPETITION MAXIMUM** STANDING POWER HAND-RELEASE PUSH DEADLIFT (MDL) THROW (SPT) UP (HRP) SPRINT-DRAG-CARRY LEG TUCK (LTK) TWO-MILE RUN (2MR) (SDC)

RESOURCES
Army Combet Fitness Test Training Guide
FM 7-22 Army Physical Readiness Training
ACFT Equipment List
AGET Field Testing Manual
Center for Army Lessons Learned (CALL) Nanual
Six Event Highlight Peater (CTA 07-08-005)
Army Physical Readiness Training application (iOS)
Army Physical Readiness Training application (Android)
Any comments or recommendations for improvement should be prepared using <b>DA Form 2028</b> and sent to Director, Research and Analysis, United States Army Center for initial Military Training, ATTN: ATMT-RA, 210 Dillon Circle, Fort Eustis, Virginia 23604-6701, or submit an electronic <b>DA Form 2028</b> by enail to usarmygbie.tradoc.list.g2.acft9rmail.mil





## Plus ça change, plus c'est la même chose

...statistics show that one-third of our young manhood had physical defects which rejected them from the Army in spite of the fact that the standards were not high. Most of these had but recently left school. It demonstrated that something was wrong; that the schools were not preparing the youth physically for life.

Besides physical unfitness it was discovered also in Army camps that our young people were physical illiterates. It was realized that the public schools are responsible for physical literacy as well as for mental literacy. Men in camps could not jump eight-foot trenches nor vault four-foot fences. They lacked ability and skill to handle their bodies in emergencies as well as in games. There was a lack of neuromuscular skill. We needed physical education to train the body to act, as well as mental education to train the mind to think.

School health examinations and statistics over the country have indicated that more than 70 percent of the school children have defects which affect their mental as well as physical growth and development. It is recognized that a physically fit person is more likely to be efficient, happy, and useful. A physically fit nation is better prepared to meet any emergency either from within or without.

**Journal of Health, Physical Education, Recreation, Volume 9** E.D. Mitchell, Editor American Assoc. for Health and Physical Education (Jan 1938)





# **Opportunities for Health and Fitness Specialists:**

- Physical Therapists
- Registered Dietitians
- Occupational Therapists
- Athletic Trainers
- Strength and Conditioning Specialists
- Cognitive Enhancement Specialists

# **Opportunities for Equipment and Facilities:**

- Lifting, Aerobic, Non-Aerobic, Rehab
- Training equipment
- Building, facilities, sites

# **Opportunities for Training and Management:**

- IT systems, APPs, Database
- Tracking
- Training Programs

# **Opportunities for Research and Development:**

- Individual, male/female
- Nutrition, supplements, diet
- Physical fitness, training methodology, equipment testing





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# **Questions?**



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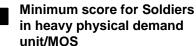
**IOC Scoring Standard** 



#### ACFT FOC SCALE (Final)

				LE (Fina	<b>'</b> /	
Points	MDL	SPT	HRP	SDC	LTK	2MR
100	340	12.5	60	1:33	20	13:30
99		12.4	59	1:36		13:39
98		12.2	58	1:39	19	13:48
97	330	12.1	57	1:41		13:57
96		11.9	56	1:43	18	14:06
95		11.8	55	1:45		14:15
94	320	11.6	54	1:46	17	14:24
93		11.5	53	1:47		14:33
92	310	11.3	52	1:48	16	14:42
91		11.2	51	1:49		14:51
90	300	11.0	50	1:50	15	15:00
89		10.9	49	1:51		15:09
88	290	10.7	48	1:52	14	15:18
87		10.6	47	1:53		15:27
86	280	10.4	46	1:54	13	15:36
85		10.3	45	1:55		15:45
84	270	10.1	44	1:56	12	15:54
83		10.0	43	1:57		16:03
82	260	9.8	42	1:58	11	16:12
81		9.7	41	1:59		16:21
80	250	9.5	40	2:00	10	16:30
79		9.4	39	2:01		16:39
78	240	9.2	38	2:02	9	16:48
77		9.1	37	2:03		16:57
76	230	8.9	36	2:04	8	17:06
75		8.8	35	2:05		17:15
74	220	8.6	34	2:06	7	17:24
73		8.5	33	2:07		17:33
72	210	8.3	32	2:08	6	17:42
71		8.2	31	2:09		17:51
70	200	8.0	30	2:10	5	18:00
69		7.8	28	2:14		18:12
68	190	7.5	26	2:18	4	18:24
67		7.1	24	2:22		18:36
66		6.8	22	2:26		18:48
65	180	6.5	20	2:30	3	19:00
64	170	6.2	18	2:35		19:24
63	160	5.8	16	2:40		19:48
62	150	5.4	14	2:45	2	20:12
61		4.9	12	2:50		20:36
60	140	4.5	10	3:00	1	21:00

#### Scoring For IOC (Field Test) – Modified as data develops during IOC Phase



Minimum score for Soldiers in significant physical demand unit/MOS

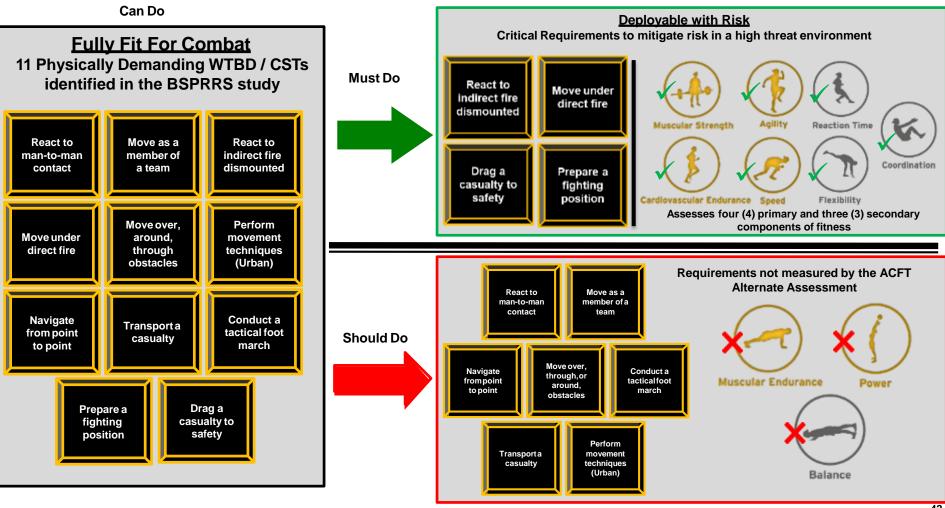
Minimum Score for Soldiers in moderate physical demand unit/MOS (Army minimum)



# ts

## **<u>Critical</u>** Requirements for Deployment to Combat

....fight, decrease risk to self and render aid to others in a combat environment.







## **Only for Deployable Soldiers on a Permanent Profile**

### Modified Assessment – Three (3) Event Minimum

MDL	SPT	HRP	SDC	LTK	2MR / Row / Bike / Swim
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					CHONE WE FORM

- Soldier MUST complete Deadlift and Sprint- Drag-Carry, <u>plus</u> one aerobic event (3 non- impact alternative events are authorized)
- Soldier will complete any ACFT event not prohibited by their profile
- Note: Measures the minimum physical attributes to fight, decrease risk to self and render aid to others...
- Only for Soldiers on Permanent Profile with a deployment limiting code
- (Continuation on Active Duty (COAD), Continuation of Active Reserve (COAR), or approved retention waivers)
- Health Assessment One (1) Event



• Soldier performs ACFT 2-mile run or one (1) of the three (3) authorized aerobic test events; measure time to complete the specified distance.

Pass	Row	Bike	Swim	Run
Distance*	5,000m	15,000m	1,000m	ACFT

\*IOC scale scores to be refined during the ACFT Field Test



Globally Responsive, Regionally Engaged

### Concept Development And Governance

Holistic Health and Fitness 2019	Part 1: System – H2F overview and planning Part 2: Design – Physical, Nutrition, Spiritual, Mental and Sleep readiness Part 3: Build – H2F program design Part 4: Deliver – H2F schedules Part 5: Test – OPAT and ACFT
STRIBUTION RESTRICTION: IRNING NOTICE: [Delete this line if no warning notice is required.] STRUCTION NOTICE: [Delete this line if no destruction notice required.] a publication supersedes FM 7-32 26 OGT 2012. Headquarters, Department of the Army	Appendices: PRT Drills and Exercises H2F Personnel H2F Equipment H2F Leader Education New Army Water Survival Training, Sleep and, Mental readiness New Army Nutrition doctrine New Army Pregnancy and Post-Partum Physical Training New Army Running Skill doctrine New Army Spiritual Readiness doctrine New Army Health Coaching instruction

#### Way Ahead

- Publish H2F Concept Paper
- Publish ADP on H2F System
- Publish FM 7-22 and other documents as required



# Army Combat Fitness Test Alternate event for 2-mile run (2MR)

# Alternate Event 5,000m Row

- **Task:** Execute a challenging alternate nonimpact aerobic event for permanent profile Soldiers who cannot perform the 2-mile run
- **Condition:** Given a standardized and approved horizontal rowing machine (ergometric)
- **Standard:** Execute the rowing event utilizing proper form to meet equivalent ACFT muscular and aerobic performance standards within 25 minutes

#### Relevant Principles for Event Selection

- 1. <u>Efficacy</u>: Highly predictive test assessing for measuring aerobic endurance
- 2. <u>Safety</u>: Minimal risk for injury; appropriate for Soldiers on a lower body no / low impact profile
- 3. <u>Ease of Administration</u>: Requires one (1) grader event time ≤ 25:00 min per Soldier \*
- 4. <u>Grading: Simple to grade, replicate over time/space</u> \*= remains TBD with Field Test scoring, age and gender neutral



An ergometric rower works multiple large muscle groups, to include shoulders, arms, core, and legs, at one time. The repetitive push and pull under tension provides a low-impact assessment of muscular and aerobic endurance.



# Army Combat Fitness Test Alternate event for 2-mile run (2MR)

# Alternate Event 15,000m Bike

- **Task:** Execute a challenging alternate nonimpact aerobic event for permanent profile Soldiers who cannot perform the 2-mile run
- **Condition:** Given a standardized and approved stationary bike machine (ergometric)
- **Standard:** Execute the timed bike event utilizing proper form to meet equivalent ACFT muscular and aerobic performance standards within 25 minutes
- Relevant Principles for Event Selection
  - 1. <u>Efficacy</u>: Highly predictive test assessing for measuring aerobic endurance
  - 2. <u>Safety</u>: Minimal risk for injury; appropriate for Soldiers on an upper body profile and lower body no / low impact profile
  - 3. <u>Ease of Administration</u>: Requires one (1) grader event time ≤ 25:00 min per Soldier \*
  - 4. Grading: Simple to grade, replicate over time/space
  - \*= remains TBD with Field Test scoring, age and gender neutral



An ergometric bike works large muscle groups in the legs. Repetitive movements under tension provides a low-impact assessment of lower-body muscular and aerobic endurance.



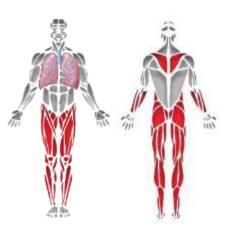
## Army Combat Fitness Test Alternate event for 2-mile run (2MR)



# Alternate Event 1,000m Swim

- Task: Execute a challenging alternate nonimpact aerobic event for permanent profile Soldiers who cannot perform the 2-mile run
- Condition: Given a standardized and approved 25-50m swimming pool
- Standard: Execute the timed swim event utilizing proper form to meet equivalentACFT muscular and aerobic performance standards within 25 minutes
- Relevant Principles for Event Selection
  - 1. Efficacy: Highly predictive test assessing for measuring aerobic endurance
  - 2. Safety: Minimal risk for injury; appropriate for Soldiers on an upper body profile and lower body no / low impact profile
  - 3. Ease of Administration: Requires one (1) grader event time ≤ 25:00 min per Soldier \*
  - 4. Grading: Simple to grade, difficult to replicate over \*= time/space v. pool requirements







The swim works multiple large muscle groups, to include shoulders, arms, core, and legs, at one time. The repetitive pull, kick and recover under