Chapter 13
Firefighter Training and Qualifications

Introduction

National Wildfire Coordinating Group (NWCG) sanctioned firefighters are trained and qualified according to the NWCG and other standards, as outlined below.

Policy

Firefighters must meet standards identified in the NWCG publication *PMS 310-1 National Interagency Incident Management System Wildland Fire Qualifications System Guide*. The 310-1 may be found at [http://www.nwcg.gov/pms/docs/docs.htm](http://www.nwcg.gov/pms/docs/docs.htm)

- **FS** - See *FSH 5109.17* for additional requirements.


Agency standards for training and qualifications may exceed the minimum standards established by National Wildfire Coordinating Group (NWCG). Such additional standards will be approved by the Fire Directors, and implemented through the Incident Qualifications and Certification System (IQCS). Standards which may exceed the minimum standards established by NWCG are identified in:

- **FS** - The *FSH 5109.17*. AD hires sponsored by the Forest Service will meet *FSH 5109.17* position qualification standards.
- **NPS** - L380 Fireline Leadership is recommended training for single resource bosses; L-381 Incident Leadership is recommended training for RXB1.

Qualification and Certification Process

Each unit with fire management responsibilities will establish an Incident Qualification Card qualification and certification process. In areas cooperating with other federal, state, or local agencies, an interagency qualification and certification committee should include representatives from each unit. These qualification and certification committees provide management oversight and
review of the wildland and prescribed fire positions under their jurisdiction. The committee also:

- Ensures that qualifications generated by IQCS or other agency systems for employees are valid by reviewing the training and experience of each employee.
- Determines whether each employee possesses the personal characteristics necessary to perform the wildland and prescribed fire positions in a safe and efficient manner.
- Makes recommendations to the appropriate agency administrator or designee who is responsible for final certification signature.
- Develops interagency training needs and sponsors courses that can be offered locally.
- Ensures training nominees meet minimum requirements for attending courses.

Non-NWCG Agency Personnel Qualifications

Personnel from non-NWCG agencies meeting NWCG 310-1 prerequisites can participate in and receive certificates for successful completion of NWCG courses. Agency employees can complete the Task Blocks, Evaluation Record and Verification/Certification sections of a cooperating organizations employee Position Task Book. Agency employees will not initiate or complete the Agency Certification sections of Position Task Book for non-agency employees.

Personnel from agencies that do not subscribe to the NWCG qualification standards may be used on agency managed fires. Agency fire managers must ensure these individuals are only assigned to duties commensurate with their competencies, agency qualifications, and equipment capabilities.

Non-NWCG Agency Personnel Use on Prescribed Fire

The NWCG 310-1 Wildland Fire System Qualifications Guide establishes the minimum qualifications for personnel involved in prescribed fires on which resources of more than one agency are utilized - unless local agreements specify otherwise. This guide may be found at: http://www.nwcg.gov/pms/docs/docs.htm

Incident Qualifications and Certification System (IQCS)

The Incident Qualifications and Certification System (IQCS) is the fire qualifications and certification record keeping system. The Responder Master Record report provided by the IQCS meets the agency requirement for maintaining fire qualification records. The system is designed to provide managers at the local, state/regional, and national levels with detailed qualification, experience, and training information needed to certify employees in wildland fire positions. The IQCS is a tool to assist managers in certification decisions. However, it does not replace the manager’s responsibility to validate
that employees meet all requirements for position performance based on their agency standards.

A hard copy file folder will be kept for each employee. The contents will include, but are not limited to: training records for all agency required courses, evaluations from assignments, position task book verification, yearly updated IQCS forms, and the Responder Master Record (RPTC028) from IQCS. All records will be stored and/or destroyed in accordance with agency policies.

- **BLM** - These policies can be found at http://www.blm.gov/wo/st/en/info/regulations/combined_record_schedules.html
- **NPS** - IQCS Account Managers should have an IQCS Delegation of Authority if they are serving as the Certifying Official. Delegation of Authority can be found at: http://iqcs.nwcg.gov/main/requestAccount.html

### Certification of Non-Agency Personnel

Non-agency firefighters will be certified by state or local fire departments, or private training providers approved by a Memorandum of Understanding (MOU) through their local GACC. Agencies will not assist in the administration, or sponsor the Work Capacity Test (WCT), as the certifying agency.

### Incident Qualification Card

The agency administrator (or delegate) is responsible for annual certification of all agency and Administratively Determined (AD) personnel serving on wildfire, prescribed fire, and all hazard incidents. This responsibility includes monitoring medical status, fitness, training, performance, and ensuring the responder meets all position performance requirements.

Training, medical screening, and successful completion of the appropriate WCT must be properly accomplished. All Incident Qualification Cards issued to agency employees, with the exception of Emergency Firefighter (EFF-paid or temporary employees at the FFT2 level), will be printed using the IQCS. Incident Qualification Cards issued to EFF or temporary employees at the FFT2 level may be printed at the local level without use of the IQCS.

Each agency will designate employees at the national, regional/state, and local levels as Fire Qualifications Administrators, who ensure all incident experience, incident training, and position Task Books for employees within the agency are accurately recorded in the IQCS. All records must be updated annually or modified as changes occur.

- **NPS** - Certification for Area Command and Type 1 Command and General Staff (C&GS) position task books will be done at the national office level; Type 2 C&GS, and any position task books issued to park fire management officers will be certified at the regional office level. All other position task books may be certified at the local unit level.
• **NPS** - It is NPS policy that two or more assignments be accomplished after completing a Position Task Book, and receiving certification, before an individual begins movement to the next higher level. It is also NPS policy to require two or more qualified assignments be accomplished in a position before an individual may become a position performance evaluator. The only exceptions to this policy are unit leader positions leading to Planning Section Chief, Logistics Section Chief, or Finance Section Chief. Subordinate unit leader positions require a minimum of one assignment after the PTB completion and position certification.

• **BLM** - BLM Recertification Policy: If an employee (including an agency-sponsored AD) has lost currency in a position, the employee is converted to trainee status for that position. In order to regain full qualification for the position, the employee must demonstrate the ability to perform in the position as determined by the Certifying Official. Prior to recertification, the employee must:
  - Complete one or more evaluation assignments.
  - Complete any additional requirements as determined by the Certifying Official (e.g. additional assignments and/or courses).

  NOTE: This policy only applies to positions for which a task book is required.

**Incident Qualification Card Expiration Dates**

Incident Qualification Card positions requiring Work Capacity Tests (WCT) and the Annual Fireline Safety Refresher Training course (RT-130) are valid through the earliest expiration date (either fitness or refresher) listed on the card. Incident Qualification Card positions that do not require WCT or RT-130 for issuance are valid for 12 months from the date the card is signed by a certifying official.

• **FS** - the WCT is considered effective for 13 months from the date passed. If an employee is on an emergency assignment on the date their WCT expires, they will complete their assignment including any extensions. Upon return to their duty station, they must complete the WCT and acquire a new Incident Qualification Card prior to accepting any new assignments.

**Universal Training Requirements**

All personnel filling NWCG recognized positions on the fireline must have completed:

- S-130 Firefighter Training (including the required field exercises)
- S-190 Introduction to Wildland Fire Behavior
- L-180 Human Factors on the Fireline
- I-100 Introduction to ICS
All Responders filling ICS positions must have completed:

- IS-700A NIMS: An Introduction\(^1\)
- IS-800B National Response Framework, An Introduction\(^2\)
- IS-800B National Response Framework, An Introduction\(^3\)
- IS-400 or equivalent

- Single Resource Personnel:
  - ICS-200 or equivalent
  - ICS-300 or equivalent

- Strike Team/Taskforce Leaders, Supervisors, and Branch Directors:
  - ICS-200 or equivalent

- Command and General Staff, Area Command and Emergency Managers:
  - IS-800B National Response Framework, An Introduction\(^2\)
  - ICS-400 or equivalent

\(^1\) IS-700A replaces IS-700. Either course meets the requirement.
\(^2\) IS-800B replaces IS-800A. Either course meets the requirement.

- FS - Forest Service direction is found in FSH 5109.17.

### Annual Fireline Safety Refresher Training

Annual Fireline Safety Refresher Training is required for all positions as identified in the *Wildland Fire Qualifications System Guide* (NWCG 310-1). Annual Fireline Safety Refresher Training must include the following core topics:

- **Avoiding Entrapments** - Use training and reference materials to study the risk management process as identified in the *Incident Response Pocket Guide* as appropriate to the participants, e.g., LCES, Standard Firefighting Orders, Eighteen Watch Out Situations, Wildfire Decision Support System (WFDSS) direction, Fire Management Plan priorities, etc.

- **Current Issues** - Review and discuss identified “hot topics” as found on the current Wildland Fire Safety Training Annual Refresher (WFSTAR) website. Review forecasts and assessments for the upcoming fire season and discuss implications for firefighter safety.

- **Fire Shelter** - Review and discuss last resort survival including escape and shelter deployment site selection. Conduct “hands-on” fire shelter inspections. Practice shelter deployments in applicable crew/module configurations.

- **Other Hazards and Safety Issues** - Choose additional hazard and safety subjects, which may include SAFENET, current safety alerts, site/unit specific safety issues and hazards.

These core topics must be sufficiently covered to ensure that personnel are aware of safety concerns and procedures and can demonstrate proficiency in fire shelter deployment. The minimum refresher training hour requirements for each agency is identified below. Training time may be extended in order to effectively complete this curriculum or to meet local training requirements.
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- **BLM** - 4 hours
- **FWS/FS** - No minimum hourly requirement; core topics as shown above will be covered.
- **NPS** - 8 hours

The Annual Fireline Safety Refresher Training course (RT-130) is not a self-study course. Minimum requirements have been established for instructors for Annual Fireline Safety Refresher Training. These requirements will ensure that an appropriate level of expertise and knowledge is available to facilitate refresher training exercises and discussions.

- Lead instructors must be a qualified single resource boss.
- Unit instructors must be qualified firefighter type one (FFT1).
- Adjunct instructors may be utilized to provide limited instruction in specialized knowledge and skills at the discretion of the lead instructor. They must be experienced, proficient and knowledgeable of current issues in their field of expertise.

For additional information please refer to the current NWCG Field Manager’s Course Guide (PMS 901-1) at: http://www.nwcg.gov/pms/training/fmcg.pdf.

Annual Fireline Safety Refresher Training will have a 12-month currency. Firefighters who receive initial fire training are not required to take Annual Fireline Safety Refresher Training in the same calendar year. A web site, http://www.nifc.gov/wfstar/index.htm, titled Wildland Fire Safety Training Annual Refresher (WFSTAR) is available to assist in this training.

Entrapment avoidance and deployment protocols are identified in the Incident Response Pocket Guide (IRPG) (PMS No. 461/NFES No.1077). The guide contains a specific “Risk Management Process” and “Last Resort Survival Checklist”.

- **BLM** - The “Do What’s Right” training is required annual training but is not a prerequisite for issuance of an Incident Qualification Card.

### Physical Fitness

**Physical Fitness and Conditioning**

Agency administrators are responsible for ensuring the overall physical fitness of firefighters. Employees serving in wildland fire positions that require a fitness rating of arduous as a condition of employment are authorized one hour of duty time each work day for physical fitness conditioning. Employees serving in positions that require a fitness rating of moderate or light may be authorized up to three hours per week.
Fitness conditioning periods may be identified and structured to include aerobic and muscular exercises. Team sports are not authorized for fitness conditioning. Chapters 5, 6, 7, 8, and 9 and appendices F, G, and H of *Fitness and Work Capacity 2009* ed. (PMS 304-2, NFES 1596) and the FireFit Program (http://www.nifc.gov/FireFit/index.htm) provide excellent guidance concerning training specifically for the pack test, aerobic fitness programs, and muscular fitness training.

- **FS** - Forest Service direction is found in FSH 5109.17. NFPE Partnership bargaining unit employees may only be required to successfully complete the WCT once per year.
- **NPS** – A fitness plan is required for all NPS personnel participating in a fitness program (DO-57). For health and fitness purposes, those who are fire-qualified at less than the Arduous fitness level are not required to meet the mandatory fitness program requirements of DO-57 for wildland fire management. They are strongly encouraged to participate in the voluntary fitness program, and must still meet physical fitness/work capacity requirements as outlined in the Wildland Fire Qualifications System Guide (310-1) for positions with Moderate and Light fitness requirements.

### Medical Examinations
Agency administrators and supervisors are responsible for the occupational health and safety of their employees performing wildland fire activities, and may require employees to take a medical examination at any time. Established medical qualification programs, as stated in 5 CFR 339, provide consistent medical standards in order to safeguard the health of employees whose work may subject them or others to significant health and safety risks due to occupational or environmental exposure or demand.

Information on any medical records is considered confidential and must be kept in the employee’s medical file.

### Department of Interior Wildland Firefighter Medical Standards Program (DOI/MSP) - Arduous Fitness Level
All permanent, career-seasonal, temporary, Student Career Experience Program (SCEP) employees, and AD/EFF who participate in wildland fire activities requiring a fitness level of *arduous* must participate in the DOI-MSP at the appropriate level (see Examination Matrix on the MSP website) and must be cleared prior to attempting the WCT. Additional information regarding the DOI-MSP can be obtained at http://www.nifc.gov/medical_standards/.

- **FS** - Refer to current agency direction: http://www.fs.fed.us/fire/safety/wct/wct_index.html

If the HSQ or Annual Exam results in a status of “cleared”, but the Servicing Human Resource Officer (SHRO) or FMO has a direct concern about an employee’s/applicant’s capacity to meet the physical or medical requirements of a position, the agency may require the employee/applicant to report for a
specific medical evaluation. For more information, contact your SHRO or agency Wildland Fire Safety Program Manager.

If any “yes” answer is indicated on the HSQ, an annual exam is required prior to the employee taking the Arduous WCT. Cost of the exam will be covered at the National level.

If the agency or examining clinician requests further medical testing, the agency will be responsible for payment. Additional testing should be approved by the agency prior to the procedure when possible. Additional testing or treatment requested by the employee/applicant shall be at their own expense.

Employees or applicants who fail to meet the Federal Interagency Wildland Firefighter Medical Qualification Standards as a permanent, seasonal/temporary, or term employee may not perform as an AD/EFF for arduous duty positions.

If a Department of the Interior arduous duty wildland firefighter (WLFF) develops a change in medical status (injury or illness) between yearly medical exams or HSQs that prevents them from performing arduous duty lasting longer than three consecutive weeks, the WLFF is required to report this change to his/her supervisor who can request additional medical information and reevaluate the WLFF clearance status.

- **NPS -** The law enforcement medical exam for NPS rangers, who are collateral duty wildland firefighters, will suffice for MSP clearance.
- **NPS -** Medical clearance must be entered into IQCS.
- **FWS-** Periodicity requirements for Refuge law enforcement examinations will be applied to arduous duty wildland fire positions. Law enforcement officers wishing to perform in NWCG PMS 310-1 or USFWS agency specific wildland fire positions with an arduous fitness requirement must pass the arduous work capacity test on an annual basis. The HSQ will be used for off exam years prior to arduous work capacity testing.

### Medical Exam Process for Light and Moderate Fitness Levels

This section applies to employees who are only required to complete the WCT at the light or moderate fitness level.

If any “Yes” answer is indicated on the HSQ, a medical examination is required prior to the employee taking the WCT.

Medical examinations will be performed utilizing the *Certificate of Medical Exam, U.S. Office of Personnel Management* OF-178. Stress EKGs are not required as part of the medical examination and will only be approved if recommended and administered by the medical examining physician. Cost for exams will be borne by the home unit. If medical findings during exam require further evaluation, then the cost of any further evaluation or treatment is borne.
by the employee/applicant. Costs for additional tests specifically requested by
the agency will be borne by the home unit.

- **FS**- Medical exams will be paid from a Washington Office fund code.

If the SHRO or FMO has a direct concern about an employee’s/applicant’s
capacity to meet the physical or medical requirements of a position, the agency
may require the employee/applicant to report for a specific medical evaluation.
For more information, contact your SHRO or agency Wildland Fire Safety
Program Manager.

Standards for medical examinations using the OF-178 for light and moderate
positions are available at:

The examining physician will submit the completed OF-178 (and applicable
supplements) to the employee’s servicing human resources office, where it will
be reviewed and retained in the employee’s medical file.

- **NPS**- The law enforcement medical exam for NPS rangers, who are
collateral duty wildland firefighters, will suffice for arduous, moderate, and
light fitness level clearance.

- **FWS**- Periodicity requirements for Refuge law enforcement examinations
will be applied to light or moderate. Law enforcement officers wishing to
perform in NWCG PMS 310-1 or USFWS agency-specific wildland fire
positions with a light or moderate fitness requirement must pass the
appropriate level work capacity test on an annual basis. The HSQ will be
used for off exam years prior to light or moderate work capacity testing.

**Health Screen Questionnaire (HSQ)**

Title 5 CFR Part 339 - Medical Qualification Determinations, which provides a
determination of an individual’s fitness-for-duty, authorizes solicitation of this
information.

The approved OMB Health Screen Questionnaire (HSQ) may be found at:

The information on the HSQ is considered confidential and once reviewed by
the test administrator to determine if the WCT can be administered, it must be
kept in the employee’s medical file (EMF). This file may only be viewed by
Human Resource Management (HRM) or Safety personnel.

- **FS** - See Work Capacity Tests for Wildland Fire Qualifications
  Implementation Guide, see website:
  http://www.fs.fed.us/fire/safety/wct/wct_index.html

Release Date: January 2012
Work Capacity Test (WCT) Categories
The NWCG Wildland Fire Qualification System Guide, PMS 310-1 identifies fitness levels for specific positions. There are three fitness levels - Arduous, Moderate, and Light - which require an individual to demonstrate their ability to perform the fitness requirements of the position. Positions in the “no fitness level required” category are normally performed in a controlled environment, such as an incident base.

Law Enforcement physical fitness standard is accepted as equivalent to a “light” WCT work category.

<table>
<thead>
<tr>
<th>WCT Category</th>
<th>Distance</th>
<th>Weight</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arduous Pack Test</td>
<td>3 miles</td>
<td>45 lb</td>
<td>45 min.</td>
</tr>
<tr>
<td>Moderate Field Test</td>
<td>2 miles</td>
<td>25 lb</td>
<td>30 min.</td>
</tr>
<tr>
<td>Light Walk Test</td>
<td>1 mile</td>
<td>None</td>
<td>16 min.</td>
</tr>
</tbody>
</table>

- **Arduous** - Duties involve field work requiring physical performance with above average endurance and superior conditioning. These duties may include an occasional demand for extraordinarily strenuous activities in emergencies under adverse environmental conditions and over extended periods of time. Requirements include running, walking, climbing, jumping, twisting, bending, and lifting more than 50 pounds; the pace of the work typically is set by the emergency conditions.
- **Moderate** - Duties involve field work requiring complete control of all physical faculties and may include considerable walking over irregular ground, standing for long periods of time, lifting 25 to 50 pounds, climbing, bending, stooping, twisting, and reaching. Occasional demands may be required for moderately strenuous activities in emergencies over long periods of time. Individuals usually set their own work pace.
- **Light** - Duties mainly involve office type work with occasional field activity characterized by light physical exertion requiring basic good health. Activities may include climbing stairs, standing, operating a vehicle, and long hours of work, as well as some bending, stooping, or light lifting. Individuals can usually govern the extent and pace of their physical activity.

Work Capacity Test (WCT) Administration
The Work Capacity Test (WCT) is the official method of assessing wildland firefighter fitness levels. General guidelines can be found in the “Work Capacity Tests for Wildland Firefighters, Test Administrator’s Guide” PMS 307, NFES 1109.

WCT Administrators must ensure that WCT participants have been medically cleared, either through Wildland Firefighter Medical Qualification Standards or agency specific medical examination.

WCTs are administered annually to all employees, including AD/EFF who will be serving in wildland fire positions that require a fitness level. The currency for the WCT is 12 months.

- **FS-** Currency for WCT is 13 months.

The WCT Record (available online as Appendix O of this publication at http://www.nifc.gov/policies/policies_main.html) captures information that is covered under the Privacy Act and should be maintained in accordance with agency Freedom of Information Act (FOIA) guidelines.

Administration of the WCT of non-federal firefighters is prohibited for liability reasons. Potential emergency firefighters who would be hired under Emergency Hire authority by the agency must be in AD pay status or sign an agency specific volunteer services agreement prior to taking the WCT.

A Job Hazard Analysis (JHA) shall be developed and approved for each field unit prior to administrating the WCT. Administer the test using the JHA/RA as a briefing guide.

- **BLM -** A risk assessment shall be developed and approved for each field unit prior to administering the WCT. A RA for the WCT can be found at: http://web.blm.gov/portal/employeeresources/allemployees/safety/riskmanagement.php

The local unit shall prepare a medical response plan (such as an ICS-206 form), evaluate options for immediate medical care and patient transport, and identify closest emergency medical services. A minimum of a qualified Medical First Responder/Emergency Medical Responder (EMR) must be on site during WCT administration. Based upon a thorough evaluation of potential medical treatment and evacuation scenarios, a higher level of on-site emergency medical qualifications and equipment may be warranted (e.g. Emergency Medical Technician (EMT) or paramedic).

It is recommended that an Automatic External Defibrillator (AED) is on-site during all WCTs.

- **FS-** an AED is required on-site during all WCTs.

Document the results using the WCT Record. This document must be retained until the next testing. Units may also be requested to provide data from these records to assist in the evaluation of the WCT process.

Personnel taking the WCT will only complete the level of testing (Pack, Field, Walk) required by the highest fitness level identified for a position on their
Incident Qualification Card. Employees shall not take the WCT unless they have an Incident Qualification Card qualification that requires it, and only at the fitness level required by that position as identified in the NWCG 310-1 or agency specific guidance or policy.

Treadmills are not approved for Work Capacity Testing.

Test results must also be entered in the IQCS annually to update the fitness level and date that will appear on the Incident Qualification Card. Physical fitness dates entered in IQCS will reflect the date the employee passed the fitness test.

- **FWS/NPS** - Law Enforcement Officers are required to provide a copy of the medical clearance for verification and tracking purposes to the appropriate incident qualifications and certifications system (IQCS) account manager. Account managers will reflect the appropriate examination type and currency for the Law Enforcement Officer examinations in the physical examinations portion of the IQCS system.

**WCT Retesting**

Those who do not pass the WCT will be provided another opportunity to retest. Employees will have to wait at least 48 hours before retaking the WCT. If an employee sustains an injury (verified by a licensed medical provider) during a test, the test will not count as an attempt. Once an injured employee has been released for full duty, the employee will be given time to prepare for the test (not to exceed 4 weeks). The numbers of retesting opportunities that will be allowed include:

- Three opportunities for permanent employees required to pass a test for duties in the fire program.
- One opportunity for temporary employees required to pass a test (a second chance maybe provided at the discretion of fire management).

**Minimum Age Requirements for Hazardous Duty Assignments on Federal Incidents**

Persons under 18 years old will not perform hazardous duties during wildland fire management operations on federal jurisdictions.

**Engine Modules**

Staffing levels and specific requirements for engine personnel may be found in Chapter 14, Fire Fighting Equipment.

**Helicopter Modules**

Staffing levels and specific requirements for helicopter personnel may be found in Chapter 16, Aviation.
Smokejumpers (SMKJ)

Smokejumpers provide professional and effective fire suppression, fuels reduction, and fire management services to help land managers meet objectives.

SMKJ Policy
Smokejumper operations are guided by direction in the interagency section of the Interagency Smokejumper Operations Guide (ISOG).

Each base will comply with smokejumper operations standards. The arduous duties, specialized assignments, and operations in a variety of geographic areas require smokejumpers to have uniform training, agency approved equipment, communications, organization, and operating procedures.

SMKJ Communications
All smokejumpers carry programmable radios and are proficient in their use and programming procedures.

SMKJ Training
To ensure proficiency and safety, smokejumpers complete annual training that covers aspects of aviation, parachuting, fire suppression tactics, administrative procedures, and safety related to the smokejumper mission and fire operations. The training program for first-year smokejumpers is four weeks long.

Candidates are evaluated to determine:
- Level of physical fitness
- Ability to learn and perform smokejumper skills
- Ability to work as a team member
- Attitude
- Ability to think clearly and remain productive in a stressful environment

SMKJ Qualifications

<table>
<thead>
<tr>
<th>Position</th>
<th>IQCS Target</th>
<th>SMKJ Training Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dept Managers</td>
<td>T1 and T2 C&amp;G</td>
<td></td>
</tr>
<tr>
<td>Spotter</td>
<td>ICT3, DIVS, ATGS RXB2, SOFR</td>
<td></td>
</tr>
<tr>
<td>Lead Smokejumper</td>
<td>STLD, TFLD</td>
<td>Senior Rigger, FOBS</td>
</tr>
<tr>
<td>Smokejumper</td>
<td>ICT4, CRWB, FIRB</td>
<td>FEMO</td>
</tr>
<tr>
<td>Rookie Smokejumper</td>
<td>ICT5, FFT1</td>
<td></td>
</tr>
</tbody>
</table>

Release Date: January 2012
SMKJ Physical Fitness Standards

The national minimum standards for smokejumpers are:

- 1.5 mile run in 11:00 minutes or less
- 45 sit-ups
- 25 pushups
- 7 pull-ups
- 110 lb. packout over 3 miles/level terrain/90 minutes
- Successful completion of the WCT at the arduous level.

Interagency Hotshot Crews (IHC)

Interagency Hotshot Crews provide an organized, mobile, and skilled hand crew for all phases of wildfire suppression. IHCs are comprised of 18-25 firefighters and are used primarily for wildfire suppression, fuels reduction, and other fire management duties. IHC’s are capable of performing self-contained initial attack suppression operations, and commonly provide incident management capability at the Type 3 or 4 levels.

IHC Policy

IHC standards provide consistent planning, funding, organization, and management of the agency IHCs. The sponsoring unit will ensure compliance with the established standards. The arduous duties, specialized assignments, and operations in a variety of geographic areas required of IHCs dictate that training, equipment, communications, transportation, organization, and operating procedures are consistent for all agency IHCs.

As per agency policy, all IHCs will be managed under the Standards for Interagency Hotshot Crew Operations (SIHCO).

- BLM/NPS - BLM Preparedness Review Checklist #12 (Hotshot Crew) supersedes the checklist found in the SIHCO.

IHC Certification

The process for IHC certification is found in the Standards for Interagency Hotshot Crews (SIHCO), Chapter 5, page 14.

Annual Crew Pre-Mobilization Process

The superintendent of crews holding IHC status the previous season are required to complete the Annual IHC Mobilization Checklist (SIHCO Appendix C) and send the completed document to the local GACC prior to making the crew available for assignment each season.

Annual IHC Readiness Review

On an annual basis the superintendent of crews holding IHC status the previous season are required to complete the Annual IHC Preparedness Review (SIHCO Appendix B). This process is designed to evaluate crew preparedness and compliance with SIHCO. The annual review will be conducted while the crew
is fully staffed and operational. The review is not required prior to a crew being made available for incident assignment at the beginning of their availability period. When a review document is completed, the document is kept on file at the local (host) unit fire management office.

**IHC Organization**

Individual crew structure will be based on local needs using the following standard positions: Superintendent, Assistant Superintendent, Squad Leader, Skilled Firefighter, and Crewmember.

- **BLM/NPS-** IHCs have the option of traveling with 25 personnel when on incident assignments as authorized by the local unit. IHC superintendents will obtain prior approval from the dispatching GACC when the assignment requires fixed wing transport and the crew size is greater than 20.

**IHC Availability Periods**

IHCs will have minimum availability periods as defined in the SIHCO. Availability periods may exceed the required minimum availability period. The Crew Superintendent will inform the local supervisor and the GACC of any changes in the crew's availability.

**IHC Communications**

IHCs will provide a minimum of five programmable multi-channel radios per crew as stated in the SIHCO.

**IHC Transportation**

Crews will be provided adequate transportation. The number of vehicles used to transport a crew should not exceed five. All vehicles must adhere to the certified maximum Gross Vehicle Weight (GVW) limitations.

**Other Hand Crews**

**Policy**

All crews must meet minimum crew standards as defined below as well as any additional agency, state, or contractual requirements. Typing will be identified at the local level with notification made to the local GACC.
### MINIMUM CREW STANDARDS FOR NATIONAL MOBILIZATION

<table>
<thead>
<tr>
<th>Minimum Standards</th>
<th>Type 1</th>
<th>Type 2 with IA Capability</th>
<th>Type 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fireline Capability</td>
<td>Initial attack can be broken up into squads, fire line construction, complex firing operations (backfire)</td>
<td>Initial attack can be broken up into squads, fire line construction, firing to include burnout</td>
<td>Initial attack, fire line construction, firing as directed</td>
</tr>
<tr>
<td>Crew Size</td>
<td>18-20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Language Requirement</td>
<td>All senior leadership including Squad Bosses and higher must be able to read and interpret the language of the crew as well as English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Experience</td>
<td>80% 1 season</td>
<td>60% 1 season</td>
<td>20% 1 season</td>
</tr>
<tr>
<td>Full Time Organized Crew</td>
<td>Yes (work and train as a unit 40 hrs per week)</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Communications</td>
<td>5 programmable radios</td>
<td>4 programmable radios</td>
<td></td>
</tr>
<tr>
<td>Sawyers</td>
<td>3 agency qualified</td>
<td>3 agency qualified</td>
<td>None</td>
</tr>
<tr>
<td>Training</td>
<td>As required by the Interagency Hotshot Crew Guide or agency policy prior to assignment</td>
<td>Basic firefighter training and/or annual firefighter safety refresher prior to assignment</td>
<td>Basic firefighter training and/or annual firefighter safety refresher prior to assignment</td>
</tr>
<tr>
<td>Logistics</td>
<td>Crew level agency purchasing authority</td>
<td>No purchasing authority</td>
<td>No purchasing authority</td>
</tr>
<tr>
<td>Maximum Weight</td>
<td>5300 lbs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dispatch Availability</td>
<td>Available nationally</td>
<td>Available nationally</td>
<td>Variable</td>
</tr>
<tr>
<td>Production Factor</td>
<td>1.0</td>
<td>.8</td>
<td>.8</td>
</tr>
<tr>
<td>Transportation</td>
<td>Own transportation</td>
<td>Transportation needed</td>
<td>Transportation needed</td>
</tr>
<tr>
<td>Tools &amp; Equipment</td>
<td>Fully equipped</td>
<td>Not equipped</td>
<td>Not equipped</td>
</tr>
<tr>
<td>Personal Gear</td>
<td>Arrives with: Crew First Aid kit, personal first aid kit, headlamp, 1 qt canteen, web gear, sleeping bag</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PPE</td>
<td>All standard designated fireline PPE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Certification</td>
<td>Must be annually certified by the local host unit agency administrator or designee prior to being made available for assignment.</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Crew Types
- **Agency Crews**
  - Agency hand crews consist of qualified agency personnel and are organized on a local basis. These crews are designated as Type 2 or Type 2 IA.
• State Crews
State crews are organized under the auspices of individual states. These crews may be designated as Type 1, Type 2, or Type 2 IA. These crews include organized state inmate crews.

• Emergency Firefighter Crews (EFF)
These crews are usually Type 2 crews consisting of agency sponsored on call personnel who meet the requirements for Type 2 IA or Type 2 as defined in above.

• Contract Crews
These organized crews consist of personnel trained, equipped, and certified by a private contractor and must meet the contractual specifications as stated in their state or national crew contracts.

Wildland Fire Modules
Information on wildland fire modules can be found at:

• NPS - The primary mission and priority of the modules is to provide skilled and mobile personnel to assist with Wildland Fire Managed for Multiple Objectives in the areas of planning, fire behavior monitoring, ignition, and holding. Secondary priorities follow in the order below:
  o Support burn unit preparation.
  o Assist with fire effect plot work.
  o Support mechanical hazardous fuel reduction projects.

• NPS - As an interagency resource, the modules are available nationally throughout the fire season. Each module is comprised of a module leader, assistant leader and three to eight module members. Modules are mobilized and demobilized through established ordering channels through the GACCs.

Agency Certified Positions
As a supplement to the qualifications system, certain agencies have identified the additional positions of Prescribed Fire Burn Boss 3 (RXB3) - see Chapter 17; Engine Operator (ENOP) - see Chapter 2; and Chainsaw Operators and Fallers listed below.

• FWS - See the Fire Management Handbook for agency specific position information.

Chainsaw Operators and Fallers
The agencies have established the following minimum qualification and certification process for Chainsaw Operators (Incident Qualification Card certified as Faller A):

• Agency employees who are chainsaw operators and fallers must be minimally qualified as a FFT2 and meet the arduous fitness standards.
• Successful completion of S-212, including the field exercise, or those
  portions of S-212 appropriate for Faller A duties.
• Agency Administrator (or delegate) certification of qualifications after
  verification that training is successfully completed.
• Documentation must be maintained for individuals.
• The individual tasks required for completion of the “A” Task Book and the
  final evaluation for the “A” level saw operators must be verified or signed
  by a qualified “B” or “C” level saw operator.
• The individual tasks required for completion of the “B” Task Book must be
  evaluated by a qualified “B” or “C” level operator. The Final Evaluator
  Verification for “B” level operators must be signed by a “C” level saw
  operator.
• The individual tasks required for completion of the “C” Task Book must be
  evaluated by a qualified “C” level operator. The Final Evaluator
  Verification for “C” level operators must be signed by a state approved “C”
  level evaluator.
• Each of the states/regions will certify and maintain a list of their current “C”
  class saw operators who they approve to be “C” class evaluators.
• The certification of “C” class evaluators will remain the responsibility of
  the agency administrator or delegate.
• All fire related (Incident Qualification Carded) saw operation qualifications
  are maintained through the IQCS system and will have a currency of five
  years.
• BLM/NPS/FWS - Position task book found at:
  http://www.nwcg.gov/pms/taskbook-agency/index.htm
• FWS - See the Fire Management Handbook for additional direction.
  Information regarding FWS required annual chainsaw refresher can be
  found at: http://sharepoint.fws.net/Programs/nifc/operations/default.aspx.
• FS - FS direction can be found in FSH 5109.17 and FSH 6709.11.
• NPS - Exceptions to the above policy are:
  o Size classes used in the Faller A, Faller B, and Faller C Position Task
    Book are guidelines and are not the determining factor in the
    complexity of a tree felling operation. The size classes are to be used as
    an evaluation tool during trainee evaluation. Chainsaw operators are
    expected to conduct a thorough size up of each individual tree and
    determine the extent of qualification required to safely perform a
    felling operation.
  o The individual tasks required for completion of the “B” Task Book and
    the final evaluation for the Class “B” saw operations must be verified
    by a qualified Class “B” or “C” saw operator.
  o The individual tasks required for completion of the “C” Task Book
    must be verified by a qualified “C” level operator.
  o Final evaluation of “C” level operators must be completed by a
    regionally-approved “C” level evaluator.