



DEPARTMENT OF THE NAVY  
COMMANDER  
TRAINING AIR WING FIVE  
7480 USS ENTERPRISE STREET SUITE 205  
MILTON, FLORIDA 32570-6017

IN REPLY REFER TO

COMTRAWINGFIVEINST 3710.10B  
N3  
1 Aug 12

CONTRAWINGFIVE INSTRUCTION 3710.10B

Subj: NAVAL AIRCREW TRAINING PROGRAM FOR THE TH-57B/C HELICOPTER

Ref: (a) BUPERSINST 1326.4D  
(b) OPNAVINST 3710.7U  
(c) NAVAIR 01-H57BC-1  
(d) CNATRAININST 3710.13E, CHAPTER 5  
(e) CNATRA Publication P-459 (REV 06-04)  
(f) NAVPERS 18068F, Volume II  
(g) COMTRAWINGFIVEINST 3710.15  
(h) COMNAVAIRFORINST 1500.12

Encl: (1) Naval Aircrew Designation Letter  
(2) Aircrew Qualification Requirements  
(3) TH-57 Crew Chief Qualification Syllabus

1. Purpose. To provide requirements for designation and/or requalification for Helicopter Utility Aircrewman. This instruction incorporates references (a) through (h) and is issued for the purpose of standardizing the training conducted by HELTRARON EIGHT (HT-8), HELTRARON EIGHTEEN (HT-18), and HELTRARON TWENTY-EIGHT (HT-28) in qualification/re-qualification of aircrewmembers.

2. Cancellation. COMTRAWINGFIVEINST 3710.10A.

3. Discussion. The TH-57 and its multi-mission capabilities make HT-8/HT-18/HT-28 unique organizations. In addition to the primary mission of training fleet ready naval aviators, the squadrons may at any time be tasked to perform a wide variety of missions including search and rescue, logistic support, and personnel transfers. Aircrew personnel must be trained accordingly. Emphasis is placed upon safety in maintaining mission readiness. Standardization is stressed to ensure completion of external load, pinnacles, confined area landings, and instrument observer missions.

4. Definitions

a. Naval Aircrewman. A naval aircrewman is defined as a member who meets the following criteria:

- (1) Serving in a specific flight billet under DIFCREW orders.
- (2) Has completed an appropriate course of instruction.
- (3) Designated in writing by BUPERS.

(4) Has an officially recorded crewmember code, NEC, or designator.

(5) Is authorized to wear the aircrew insignia.

b. Associate Aircrew. Associate Aircrew provide TW-5 with a pool of talent and instructional ability which can be drawn upon as required to compensate for fluctuations in permanent manning or student loading. Application to fly in an Associate status must comply with reference (g).

c. Crew Chief. Crew Chiefs are those personnel who meet the criteria of references (a) and (g) above, in addition to having:

(1) Completed TH-57 Crew Chief Qualification Syllabus (enclosure (3)).

(2) Accumulated a minimum of 25 hours in the TH-57 helicopter, if Category I, and a minimum of 10 hours, for all other Categories per reference (h).

(3) Completed all phase and mission requirements as set forth in NAVAIR 01-H57BC-1, chapters 2 and 5, and are currently qualified per reference (b).

(4) Been designated in writing by the Commanding Officer (enclosure (1)).

d. Qualified Observer. A person utilized to enhance lookout capabilities of the crew, particularly during pilot training evolutions when one of the pilots is wearing an instrument hood. The Observer works under the direction of the pilot in command and is an integral part of the TH-57 flight crew. The Observer is not necessarily an aircrewman. The Observer shall be familiar with ICS operations and shall be briefed on lookout doctrine and applicable emergency procedures. The Observer normally sits in the passenger compartment on the same side as the hooded pilot, but may occupy the right seat pilot station in certain cases.

e. Aircrew Trainee. An aircrew trainee is a qualified naval aircrewman or associate aircrewman who is transitioning to the TH-57 series aircraft.

## 5. Responsibility

a. NATOPS Program Manager. The NATOPS Program Manager is designated in writing by the Commander, Training Air Wing FIVE. He is responsible to the Model Manager for specific duties in the maintenance of the assigned NATOPS publications, and acts as the Model Manager's single point of contact for all NATOPS related issues.

b. Squadron NATOPS Officer. The NATOPS Officer is designated in writing by the Commanding Officer. He is responsible for coordinating

the overall command NATOPS program as per reference (d). This responsibility shall include the recommendation for designation or re-qualification of aircrew members.

c. Enlisted NATOPS Evaluator. Per reference (b), the Enlisted NATOPS Evaluator is designated in writing by the Commander, Training Air Wing FIVE. The Enlisted NATOPS Evaluator is responsible for conducting annual NATOPS evaluations for the Enlisted NATOPS Instructors of all the same model squadrons or units within the same major command.

d. Squadron Enlisted NATOPS Instructor. The Enlisted NATOPS Instructor (NI) is designated in writing by the Commanding Officer. He is responsible to the NATOPS Officer for NATOPS program compliance. Additionally, he is responsible for ensuring all aircrew designations or re-qualifications are completed per this and higher directives.

e. Squadron Assistant Enlisted NATOPS Instructor. The Assistant Enlisted NATOPS Instructors (ANI) are designated in writing by the Commanding Officer. They are responsible to the Senior Enlisted NATOPS Instructor for training and evaluation of aircrew members in all aspects of the TH-57B/C Crewchief Qualification Syllabus. Enlisted NATOPS Instructors shall be qualified TH-57B/C Crew Chief and have successfully completed a qualifying open book exam, closed book exam, and a NATOPS flight evaluation given by the Enlisted NATOPS Evaluator.

f. Crewchiefs. Crewchiefs are responsible to the Enlisted NATOPS Instructor for training aircrew members in initial qualifications and are authorized to sign individual line items, excepting NI/ANI review items, in the TH-57 Crewchief Qualification Syllabus (enclosure (3)).

g. Enlisted Aircrewmembers. The Enlisted Aircrewmembers shall maintain a minimum of 48 flight hours per year as per references (a) and (b). They are responsible for ensuring all syllabus requirements are signed off after completion of each training event or flight. Enlisted Aircrewmembers will ensure their qualifications remain current per reference (b).

## 6. Requirements

a. General Requirements. The following prerequisites must be met prior to individual's designation as an TH-57B/C Crew Chief.

(1) Possess the qualities of personal integrity, judgment, and initiative vital to the satisfactory performance of assigned tasks.

(2) Demonstrate thorough understanding of TH-57 B/C operation and performance. Reflected thorough knowledge of all governing publications and standardized performance in the aircraft.

b. Specific Requirement. Aircrew candidates must meet the following to become TH-57 aircrew qualified:

(1) Complete the TH-57 Crewchief Qualification Syllabus (enclosure (3)).

(2) Be current with respect to reference (b).

(3) Meet all requirements set forth in reference (c).

(4) Be familiar with pinnacles, confined area landings, external operations, and course rules per reference (e).

c. Documentation. Completion of the above requirements will be documented in the TH-57 Crewchief Qualification Syllabus and maintained in the individual's NATOPS jacket. Upon completion of all training requirements the receipt of all applicable recommendations, the individual will be designated by the Commanding Officer as a TH-57B/C Crew Chief. Maximum time for qualification shall be six months after check-in.

d. Re-qualification Requirements. All aircrewman must re-qualify annually per reference (b).

#### 7. Action

a. Squadron Operations Officer. The Squadron Operations Officer shall:

(1) Provide overall direction to the training program.

(2) Monitor the progress of aircrew trainees and ensure proper completion of the TH-57 Crewchief Qualification Syllabus (enclosure (3)).

(3) Ensure personnel undergoing training as an aircrewman have met all requirements prior to designation.

(4) Ensure qualified aircrewman have met the requirements of this instruction prior to re-qualification.

(5) Afford Associate Aircrewman the opportunity to fly at least two events and four hours per month, for a minimum total of twelve hours per quarter. This opportunity will not interfere with primary Aircrew Instructor duties at AMS-1.

b. Administrative Officer. The Administrative Officer shall:

(1) Ensure all appropriate entries are forwarded to BUPERS and PSD for inclusion in the individual's Enlisted Service Record.

(2) Forward NEC change requests and designation requests (NAVPERS 1221/6) to Navy Personnel Command (PERS-413) for processing per reference (f).

(3) Ensure proper entries are made per Bupers orders.

c. NATOPS Program Manager. The NATOPS Program Manager shall:

(1) Conduct an annual inspection of the Aircrew NATOPS Program to ensure compliance with appropriate directives.

(2) Ensure NATOPS evaluations are conducted for the Enlisted NATOPS Evaluator.

(3) Ensure NATOPS evaluations are conducted for Enlisted NATOPS Instructors.

(4) Provide guidance and assistance to all Squadron NATOPS Officers.

(5) Report directive conflicts to the activity responsible, including recommendations for resolving the conflict.

d. Squadron NATOPS Officer. The NATOPS Officer shall:

(1) Ensure the Aircrew Division NATOPS Petty Officer maintains a NATOPS Flight Personnel Training Jacket (OPNAV 3760/32) for each aircrewman.

(2) Forward all recommendations for designation, suspension, or change in status of aircrewmen to the Commanding Officer.

(3) Ensure standardization pilots are briefed on how to conduct aircrew check flights prior to scheduling the event.

e. Enlisted NATOPS Evaluator. The Enlisted NATOPS Evaluator shall:

(1) Monitor the Naval Aircrewman Training Program.

(2) Provide guidance and assistance to the Enlisted NATOPS Instructors.

(3) Ensure that all aircrew training is standardized.

(4) Maintain a standardized briefing guide for aircrew to use when briefing the Tactics syllabus flights.

(5) Conduct continuous review of existing publications.

(6) Conduct annual NATOPS evaluations for Enlisted NATOPS Instructors.

(7) Conduct annual evaluations of one or more aircrewmen at random, to measure overall adherence to NATOPS procedures.

(8) Conduct annual NATOPS evaluations of all TH-57 squadron aircrew NATOPS programs.

(9) Report directive conflicts to the activity responsible via the NATOPS Program Manager, including recommendations for resolving the conflict.

(10) Make recommendations to the NATOPS Program Manager/Enlisted NATOPS Instructor regarding the need for review conferences.

f. Squadron Enlisted NATOPS Instructor. The Enlisted NATOPS Instructor shall:

(1) Ensure enlisted aircrewmen maintain currency per this instruction.

(2) Conduct check flights and evaluations as required.

(3) Comply with requirements delineated in reference (d).

(4) Ensure publications are maintained and correct.

(5) Ensure yearly flight time summaries are entered in the aircrewman's NATOPS jacket as per reference (b).

(6) Ensure all training syllabi and Aircrew Qualification Requirements (AQR) are entered into the miscellaneous section of the aircrewman's NATOPS jacket.

(7) Ensure billet descriptions for the aircrew training personnel are updated yearly and all requirements noted therein are fulfilled.

g. Squadron Assistant Enlisted NATOPS Instructor. The Assistant Enlisted NATOPS Instructor shall:

(1) Instruct designated phase of syllabus training, and conduct check flights as required.

(2) Assist the Enlisted NATOPS Instructor in completion of all duties as directed.

h. Crewchief. The Crewchief shall:

(1) Be responsible for training aircrewmen trainees/candidates.

(2) Certify completion of individual syllabus items contained in enclosure's (2) and (3).

(3) Maintain currency per reference (b) under Duty Involving Flying Crewman (DIFCREW) orders.

(4) Provide assistance to Enlisted NATOPS Instructors as necessary to enhance the NATOPS Training Program.

i. Associate Aircrewmen. Associate Aircrewmen shall:

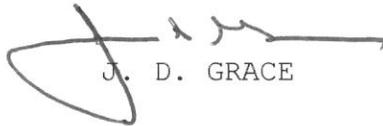
(1) Ensure availability for flights at least twice per month.

(2) Maintain currency per reference (b).

(3) Maintain close and continuous liaison with their assigned squadron to facilitate ease of scheduling.

(4) Attend, to the maximum extent possible, Safety Stand-downs, periodic standardization meetings, NATOPS training sessions and aircrew training lectures. Arrange to review copies of minutes of these meetings when unable to attend.

j. Aircrew Trainees. Aircrew trainees shall actively pursue qualification through completion of all required discussion items and syllabus flights.



J. D. GRACE

Distribution:

COMTRAWINGFIVEINST 5216.1S

List I (b), List II (l-o), List III (d)

NAVAL AIRCREW DESIGNATION LETTER

3710  
Ser 00/

From: Commanding Officer, Helicopter Training Squadron \_\_\_\_\_  
To: AW2(AW) Jim H. Doe, USN, 123-45-6789

Subj: DESIGNATION AS CREW CHIEF IN THE TH-57B/C HELICOPTER

Ref: (a) OPNAVINST 3710.7U  
(b) NAVAIR 01-H57B/C-1 (NATOPS Flight Manual)  
(c) COMTRAWINGFIVEINST 3710.10

1. You have met the requirements set forth in references (a) through (c), therefore, you are hereby designated a Crew Chief in the TH-57 B/C helicopter.
2. I congratulate you upon attaining this designation.

J. BUCK

Copy to:  
NATOPS Jacket  
Service Record

FOR OFFICIAL USE ONLY - PRIVACY SENSITIVE INFORMATION

Enclosure (1)

## AIRCREW QUALIFICATION REQUIREMENT (AQR) EVENT 1

CREWCHIEF: \_\_\_\_\_

AIRCREWMAN: \_\_\_\_\_

DATE: \_\_\_\_\_ FLIGHT TIME: \_\_\_\_\_ COMPLETE/INCOMPLETE (CIRCLE ONE)

BRIEF: YES/NO

INTRODUCE/DISCUSS:	SAT	UNSAT
1. AIRCRAFT DISCREPANCY BOOK		
2. FLIGHT GEAR		
3. PRE-FLIGHT		
4. AIRCRAFT DANGER AREAS		
a. MAIN ROTOR		
b. ENGINE INTAKE		
c. ENGINE EXHAUST		
d. BATTERY		
e. TAIL ROTOR		
5. COCKPIT		
a. FUEL VALVE		
b. THROTTLE		
c. BATTERY SWITCH		
d. CAUTION PANEL		
e. FIRE DETECTION		
f. ICS		
g. CARGO EMERGENCY RELEASE HANDLE		
h. HYDRAULIC BOOST SWITCH		
i. FIRE EXTINGUISHER		
6. CABIN		
a. DOOR REMOVAL / CABIN PREPARATION		
b. SEAT BELTS		
c. FIRST AID KIT		

COMMENTS:

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\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

CREWCHIEF SIGNATURE: \_\_\_\_\_

AIRCREWMAN SIGNATURE: \_\_\_\_\_

## AIRCREW QUALIFICATION REQUIREMENT (AQR) EVENT 2

CREWCHIEF: \_\_\_\_\_

AIRCREWMAN: \_\_\_\_\_

DATE: \_\_\_\_\_ FLIGHT TIME: \_\_\_\_\_ COMPLETE/INCOMPLETE (CIRCLE ONE)

BRIEF: YES/NO

INTRODUCE/DISCUSS:	SAT	UNSAT
1. RESPONSIBILITIES IN-FLIGHT		
2. LOOKOUT DOCTRINE		
3. AIRCRAFT START PROCEDURES		
4. COURSE RULES		
5. AIRCRAFT SHUT DOWN PROCEDURES		
6. HAND SIGNALS		

REVIEW:	SAT	UNSAT
1. AIRCRAFT DISCREPANCY BOOK		
2. FLIGHT GEAR		
3. PRE-FLIGHT		
4. AIRCRAFT DANGER AREAS		
5. COCKPIT		
6. CABIN		

COMMENTS:

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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

CREWCHIEF SIGNATURE: \_\_\_\_\_

AIRCREWMAN SIGNATURE: \_\_\_\_\_

## AIRCREW QUALIFICATION REQUIREMENT (AQR) EVENT 3

CREWCHIEF: \_\_\_\_\_

AIRCREWMAN: \_\_\_\_\_

DATE: \_\_\_\_\_ FLIGHT TIME: \_\_\_\_\_ COMPLETE/INCOMPLETE (CIRCLE ONE)

BRIEF: YES/NO

INTRODUCE/DISCUSS:	SAT	UNSAT
1. CONFINED AREA LANDING (CAL) BRIEF		
2. CAL POWER REQUIREMENTS		
3. RECONNAISSANCE PASS		
4. LANDING SITE EVALUATION		
5. CREW RESOURCE MANAGEMENT		
6. VOICE REPORTING		
7. LOST ICS		
8. ENGINE FAILURE		

REVIEW:	SAT	UNSAT
1. RESPONSIBILITIES IN-FLIGHT		
2. LOOKOUT DOCTRINE		
3. AIRCRAFT START PROCEDURES		
4. COURSE RULES		
5. AIRCRAFT SHUT DOWN PROCEDURES		
6. HAND SIGNALS		

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

CREWCHIEF SIGNATURE: \_\_\_\_\_

AIRCREWMAN SIGNATURE: \_\_\_\_\_

**AIRCREW QUALIFICATION REQUIREMENT (AQR)**  
**EVENT 4**

CREWCHIEF: \_\_\_\_\_

AIRCREWMAN: \_\_\_\_\_

DATE: \_\_\_\_\_ FLIGHT TIME: \_\_\_\_\_ COMPLETE/INCOMPLETE (CIRCLE ONE)

BRIEF: YES/NO

INTRODUCE/DISCUSS:	SAT	UNSAT
1. EXTERNAL LOAD BRIEF		
2. CARGO HOOK CHECK		
3. EXTERNAL LOAD POWER REQUIREMENTS		
4. CREW RESOURCE MANAGEMENT		
5. VOICE REPORTING		
6. LSE POSITION		
7. LOST ICS		
8. FOULED HOOK		
9. ENGINE FAILURE		

REVIEW:	SAT	UNSAT
1. CONFINED AREA LANDING (CAL) BRIEF		
2. CAL POWER REQUIREMENTS		
3. RECONNAISSANCE PASS		
4. LANDING SITE EVALUATION		
5. CREW RESOURCE MANAGEMENT		
6. VOICE REPORTING		
7. LOST ICS		

COMMENTS:

\_\_\_\_\_

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\_\_\_\_\_

CREWCHIEF SIGNATURE: \_\_\_\_\_

AIRCREWMAN SIGNATURE: \_\_\_\_\_

## AIRCREW QUALIFICATION REQUIREMENT (AQR) EVENT 5

CREWCHIEF: \_\_\_\_\_

AIRCREWMAN: \_\_\_\_\_

DATE: \_\_\_\_\_ FLIGHT TIME: \_\_\_\_\_ COMPLETE/INCOMPLETE (CIRCLE ONE)

BRIEF: YES/NO

INTRODUCE/DISCUSS:	SAT	UNSAT
1. PINNACLE BRIEF		
2. RECONNAISSANCE PASS		
3. LANDING SITE EVALUATION		
4. CREW RESOURCE MANAGEMENT		
5. VOICE REPORTING		
6. LOST ICS		
7. ENGINE FAILURE		

REVIEW:	SAT	UNSAT
1. EXTERNAL LOAD BRIEF		
2. CARGO HOOK CHECK		
3. EXTERNAL LOAD POWER REQUIREMENTS		
4. CREW RESOURCE MANAGEMENT		
5. VOICE REPORTING		
6. LSE POSITION		
7. LOST ICS		
8. FOULED HOOK		
9. ENGINE FAILURE		

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

CREWCHIEF SIGNATURE: \_\_\_\_\_

AIRCREWMAN SIGNATURE: \_\_\_\_\_

**AIRCREW QUALIFICATION REQUIREMENT (AQR)**  
**EVENT 6 (CHECK FLIGHT)**

NI/ANI: \_\_\_\_\_

AIRCREWMAN: \_\_\_\_\_

DATE: \_\_\_\_\_ FLIGHT TIME: \_\_\_\_\_ COMPLETE/INCOMPLETE (CIRCLE ONE)

BRIEF: YES/NO

REVIEW:	Q	CQ	UQ
1. CAL BRIEF			
2. EXTERNAL LOAD BRIEF			
3. PINNACLE BRIEF			
4. CREW RESOURCE MANAGEMENT			
5. COURSE RULES			
6. VOICE REPORTING			
7. EMERGENCY PROCEDURES			

COMMENTS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CREWCHIEF SIGNATURE: \_\_\_\_\_

AIRCREWMAN SIGNATURE: \_\_\_\_\_

TH-57 CREW CHIEF QUALIFICATION SYLLABUS

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

1. Required Reading:

- a. NAVAIR 01-H57BC-1 NATOPS Flight Manual.
- b. NAVAIR 01-H57BC-1B Pilots Pocket Checklist.
- c. COMTRAWINGFIVEINST 3710.8 series.
- d. Squadron Standard Operating Procedures (SOP).
- e. NAVAIR 00-80T-113, Aircraft Signals NATOPS Manual.

\_\_\_\_\_  
Crewchief Date

2. Discuss the safety precautions associated with the following:

- a. Flight line safety.
- b. Main rotor/tail rotor arc (entry/exit points).
- c. Fueling and de-fueling.
- d. Minimum night equipment.
- e. Aircraft tie-down security.

\_\_\_\_\_  
Crewchief Date

3. Aircrew Responsibilities:

- a. Preflight.
- b. Takeoff/Landings.
- c. ICS Operations/Failures.
- d. Hot seat and fueling procedures.
- e. Post Flight.

\_\_\_\_\_  
Crewchief Date

4. Perform egress from copilot seat.

\_\_\_\_\_  
NI/ANI Date

5. Perform egress from the cabin area.

\_\_\_\_\_  
NI/ANI Date

6. Discuss first aid kit location, inspection, and usage.

\_\_\_\_\_  
NI/ANI Date

7. Discuss portable fire extinguisher location, inspection, and usage.

\_\_\_\_\_  
NI/ANI Date

8. Discuss external safety precautions:

- a. External equipment.
- b. Swinging load.
- c. Aircraft emergency with load:
  - (1) Loss of tail rotor effectiveness.
  - (2) Complete loss of tail rotor thrust.
  - (3) Engine failure.
  - (4) Smoke/fire.
  - (5) Loss of electrical power.
  - (6) Flight control malfunction.

\_\_\_\_\_  
Crewchief Date

9. Discuss the method of load hook up.

\_\_\_\_\_  
Crewchief Date

10. Helicopter powered flight analysis:

- a. Power required vs. power available.
- b. Torque.
- c. Weather-vane effect.
- d. Center of gravity.
- e. Coning.
- f. Vortices.
- g. Ground effect.
- h. Vortex ring state both main and tail rotors.
- i. Translational lift.
- j. Dissymmetry of lift.
- k. Phase Lag.

\_\_\_\_\_  
Crewchief Date

11. Vibrations:

- a. Low frequency vibrations.
- b. Medium frequency vibrations.
- c. High frequency vibrations.

\_\_\_\_\_  
Crewchief Date

12. Aircraft Fundamentals:

- a. Maximum gross take-off weight.
- b. Maximum forward airspeed/with doors off.
- c. Maximum sideward airspeed.
- d. Maximum rearward airspeed.

\_\_\_\_\_  
Crewchief Date

## 13. Dimensions:

- a. Main rotor diameter.
- b. Tail rotor diameter.
- c. Overall length of aircraft.
- d. Maximum height of aircraft.

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Crewchief Date

## 14. Cargo Hook:

- a. Mounting points.
- b. Release mechanisms (X3).

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Crewchief Date

## 15. Seat Restraints/Doors:

- a. Seat belt operation.
- b. Inertia reel operation.
- c. Door operation.

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Crewchief Date

## 16. Instruments:

- a. Barometric altimeter.
- b. Airspeed indicator.
- c. Vertical Speed Indicator (VSI).
- d. Turn and Slip Indicator.
- e. Magnetic Compass (Standby).
- f. Horizontal Situation Indicator (HSI).
- g. Attitude Indicator.
- h. Radar altimeter.

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Crewchief Date

## 17. Engine Instrument and Indicators:

- a. Torque meter.
- b. Turbine Outlet Temperature indicator (TOT).
- c. Gas generator tachometer (Ng).
- d. Dual tachometer (Nf/Nr).
- e. Engine oil pressure and temperature gauge.
- f. Transmission oil pressure and temperature gauge.
- g. Fuel pressure indicator.
- h. Fuel quantity indicator.

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Crewchief Date

18. Caution Light Panel:

- a. Hydraulic Pressure.
- b. Duct Temp High.
- c. Engine fire.
- d. Generator fail.
- e. Fuel low.
- f. Turbine Outlet Temperature (TOT).
- g. Airframe fuel filter.
- h. Fuel pump.
- i. Torque.
- j. Tail rotor chip.
- k. Engine chip.
- l. Trans chip.
- m. Battery hot.
- n. Battery temperature.
- o. Transmission oil pressure.
- p. Engine out.
- q. Rotor low RPM.
- r. Clear chip.

\_\_\_\_\_  
Crewchief Date

19. TH-57 Communications and Audio Controls and Functions:

- a. On/Off switches 1,2,3,4 and 5.
- b. Transmit/Internal communications selector.
- c. Hot mike switch.
- d. Volume knob.

\_\_\_\_\_  
Crewchief Date

20. State the maximum flight time and minimum crew rest requirements.

\_\_\_\_\_  
Crewchief Date

21. Aircraft classifications:

- a. TH-57B.
- b. TH-57C.

\_\_\_\_\_  
Crewchief Date

22. Squadron call signs:

- a. HT-8.
- b. HT-18.
- c. HT-28.
- d. Helicopter Instructor Training Unit (HITU).

\_\_\_\_\_  
Crewchief Date



- (6) Crash crew reposition requirement for CAL operations.
- (7) Departure procedures/Field boundaries.
- (8) Hot pits.

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Crewchief Date

b. Harold:

- (1) Course rules to/from Harold.
- (2) Altitude/Airspeed for pattern entry.
- (3) Tower and wind sock location.
- (4) Maximum number of aircraft allowed to operate.
- (5) Headings for Confined Area Landings (CAL) operations.
- (6) Headings for pinnacle operations.
- (7) Crash crew reposition requirement for CAL operations.
- (8) Departure procedures/Field boundaries.

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Crewchief Date

26. Definition of Landing Terms:

- a. Land as soon as practical.
- b. Land as soon as possible.
- c. Land immediately.
- d. Precautionary Emergency Landing.

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Crewchief Date

27. Ground Emergencies:

- a. Emergency Shutdown.
- b. Abort Start.
- c. Igniter Failure.
- d. Hot Start.
- e. Engine fire.

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Crewchief Date

28. In-flight Emergencies:

- a. Engine failure.
- b. Engine fire.
- c. Fuselage fire.
- d. Electrical fire.
- e. Smoke and fume elimination.
- f. Electrical failure.
- g. Hydraulic failure.
- h. Jammed flight controls and other flight control malfunctions.
- i. Tail rotor malfunctions.
- j. Inadvertent entry into Instrument Meteorological Conditions (IIMC).
- k. ICS/radio selector panel failure.
- l. Over-torque, over-speed, over-temperature.

- m. Fuel boost pump failure.
- n. Inadvertent seat belt release.
- o. Stuck external load procedures.

\_\_\_\_\_  
 Crewchief Date

29. Emergency landings:

- a. Autorotation.
- b. Landing in the trees.
- c. Crash position.
- d. Power on ditch.
- e. Power off ditch.

\_\_\_\_\_  
 Crewchief Date

QUALIFICATION REVIEW:

RECOMMENDED \_\_\_\_\_ DATE \_\_\_\_\_  
 CREWCHIEF

RECOMMENDED \_\_\_\_\_ DATE \_\_\_\_\_  
 NATOPS PETTY OFFICER

RECOMMENDED \_\_\_\_\_ DATE \_\_\_\_\_  
 NATOPS OFFICER