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LEVEL II

(11)

AD A 088392

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TASK ANALYSIS
QUESTIONNAIRE BOOKLET
OCCUPATIONAL FIELD 60/61.

DATE: AUG 1979

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THIS IS NOT A TEST

This questionnaire is designed to obtain information about your military job. The questions were constructed from on-the-job observations and interviews with Marines performing duties similar to yours. To properly identify the military jobs you perform, we need your assistance. Be sure your responses relate to your present billet. Be honest, frank and accurate in your responses. All of your responses will be held in confidence. Neither you nor your unit will be marked or judged on your responses.

There are three parts to this questionnaire:

- Part I BACKGROUND INFORMATION
- Part II GENERAL INQUIRIES
- Part III DUTIES AND TASKS

THERE IS NO TIME LIMIT TO COMPLETE THIS QUESTIONNAIRE

You will receive a 15 minute break during the administration of this questionnaire. This is a time to stretch, move about or otherwise relax. The Marines administering this questionnaire will announce the break period and will now GUIDE YOU THROUGH PART I.

PLEASE WAIT FOR INSTRUCTIONS

SPECIAL INSTRUCTIONS, PART II

1. Part II requests responses on information relative to your particular job. For some of the questions you may have more than one response. Insure you make neat "X's" within each square corresponding to the response(s) you select.

QUESTIONNAIRE PART II

1. Did you enlist in the Marine Corps rather than some other branch of the Service because of the Aviation Guarantee Program?
 1. Yes
 2. No

2. In the last year I have worked out of my job area for _____ days (coffee mess, guard duty, mess duty, rifle range, etc.)
 1. None
 2. Less than 15
 3. 15-30
 4. 30-45
 5. 45-60
 6. 60-90
 7. Over 90

3. I am a certified:
 1. Aerial Gunner
 2. Crew Chief
 3. Plane Captain
 4. A/C Welder
 5. Quality Assurance Inspector
 6. CDI (Collateral Duty Inspector)
 7. Test Cell Operator
 8. Search and Rescue Crewman
 9. Flight Engineer

4. I have completed the following schools:
 1. Aviation Mechanical Fundamental School - P

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NTIS GRA&I	
DDC TAB	
Unannounced	
Justification <i>PER LETTER ON FILE</i>	
By _____	
Distribution/	
Availability Codes	
Dist.	Avail and/or special
<i>A</i>	

PART II CONTINUED

2. Basic Helicopter Course - C
 3. Aviation Machinists Mate (J) Jet Engine Course (A)
 4. Aviation Machinists Mate (J) Jet Engine Course (B)
 5. Aviation Machinists Mate (R) (Recip) Course (A)
 6. Aviation Machinists Mate (R) (Recip) Course (B)
 7. Aviation Structures Mechanic (E) Safety Equipment Course (A)
 8. Aviation Structures Mechanic (E) Safety Equipment Course (B)
 9. Aviation Structures Mechanic (H) Hydraulics Course (A)
 10. Aviation Structures Mechanic (H) Hydraulics Course (B)
 11. Aviation Structural Mechanic Structures Course (A)
 12. Aviation Structural Mechanic Structures Course (B)
 13. Aircrewman Survival Equipment Course, A
 14. Aircrewman Survival Equipment Course, B
 15. Data Analysis Course, C
 16. Aviation Maintenance Administration Man Course, A
 17. Parachute Packing, Maintenance and Air Drop Course
 18. Aircraft Maintenance Radiography Course CIC (NDT)
 19. TML/TME (Lab Time)
 20. NAMTRADETS
 21. Factory Schools
 22. 34 School
23. I am assigned to the following work center or shop (select only one):
1. Maintenance Administration
 2. Maintenance Data Analysis

PART II CONTINUED

3. Maintenance/Production/Material Control
4. Quality Assurance
5. NAMTRADETS Staff
6. Wing Staff Billets
7. OMA GSE Shop
8. OMA Power Plants Shop
9. OMS Structures Shop
10. OMA Hydraulics Shop
11. OMA Safety Equipment Shop
12. OMA Flight Equipment Shop
13. OMA Check Crew
14. OMA Flight Line
15. IMA Jet Engine Shop
16. IMA Reciprocating Engine Shop
17. IMA Turbine Engine Shop
18. IMA Rotor Dynamics Shop
19. IMA Test Cell
20. IMA Structures Shop
21. IMA Paint Shop
22. IMA Hydraulic Shop
23. IMA Tire Shop
24. IMA Welding Shop
25. IMA Non-Destructive Testing Shop
26. IMA Flight Equipment Shop
27. IMA Safety Equipment Shop

PART II CONTINUED

28. Cryogenics Section
 29. GSE Engine Repair Shop (IMA)
 30. GSE Structural/Hydraulic Shop (IMA)
 31. GSE Electric Shop (IMA)
 32. GSE Components Repair Shop (IMA)
 33. GSE Preventive Maintenance Shop (IMA)
 34. GSE Air Conditioning/Refrigeration Shop(IMA)
 35. GSE Battery Shop (IMA)
6. Are coveralls needed, but not provided, to perform your job?
1. Yes
 2. No
7. On the average I spend ___ hours per day performing pre-flight inspections, post-flight inspections, or daily inspections:
1. Not at all
 2. 0-1
 3. 1-2
 4. 2-3
 5. 3-4
 6. 4-5
 7. 5-6
 8. 6 or more
8. I have worked or work on the following A/C engines:
1. J-5
 2. J-65
 3. J-70

PART II CONTINUED

4. J-34
 5. J-57
 6. T-56
 7. T-76
 8. T-53
 9. T-58
 10. T-400
 11. WR-3350
 12. WR-1820
 13. PWR-2000
 14. PWR-1830
 15. PWR-985
 16. LYCO-545
 17. J-33
 18. J-60
 19. RR PEGASUS
9. In my present job I work on the following aircraft:
1. A4/TA-4
 2. CH-53
 3. A-6/EA-6
 4. F-8
 5. F-4/RF-4
 6. AV-8
 7. T-33

PART II CONTINUED

8. T-28
 9. KC-130
 10. C-117
 11. C-54
 12. C-47
 13. U-11
 14. T-39
 15. TC-4C
 16. US-2B
 17. OV-10
 18. C-131
 19. H-34
 20. CH-46
 21. UH-1/HH1
 22. H-2
 23. H-3
 24. AH-1
 25. C-119
10. I have worked in maintenance control or production control a total of ___ years.
1. None
 2. Less than 1
 3. 1-2
 4. 2-4
 5. 4 or more

PART II CONTINUED

11. Are you provided sufficient tools or equipment to perform your job properly?
 1. Yes
 2. No

12. I have worked in quality assurance a total of ___ years.
 1. None
 2. Less than 1
 3. 1-2
 4. 3-4
 5. 4 or more

13. I have acquired more practical maintenance knowledge from (select one):
 1. IATTC Schools, Memphis
 2. IAMTRADETS
 3. TMU/TME
 4. On-Job-Experience

14. Of what benefit have the MCI courses you have taken been?
 1. Have not completed any
 2. Not at all
 3. Very little
 4. Average
 5. Very much
 6. Extremely beneficial

15. (SENIORS AND ABOVE ONLY) There is a need for MCI courses in the following subjects: (Check those applicable)
 1. Maintenance Management/Supervisor

PART II CONTINUED

2. Maintenance/Material Control
 3. Quality Assurance
16. I would take an MCI course pertaining to my job/MOS if it were available:
1. Yes
 2. No

SPECIAL INSTRUCTIONS, PART III

This part of the questionnaire contains a listing of task duty statements. The listing is divided into three categories:

GENERAL (Pertaining to all work centers)

GROUND SUPPORT (All GSE and Cryogenics work centers)

AIRCRAFT (Work centers directly working on aircraft)

Turn to Part III of your answer booklet. You will see that the booklet is divided into three (3) columns - "I DO", "TIME SPENT", and "TRAINING".

Under the "I DO" column, place a neat "X" within the square only if you perform that particular task in your PRESENT BILLET.

For each task statement you do, complete the "TIME SPENT" column rating the "TIME SPENT" in comparison to all other tasks you are required to do in your present job. Complete the "TRAINING" column as described.

Understand that the pronoun "I" precedes each task statement in the questionnaire. If you feel some tasks have been omitted please write them on the form that will be provided to you. Upon handing in your completed questionnaire bring to the attention of the Marine administering the questionnaire these omissions.

TURN TO THE NEXT PAGE IN THIS BOOKLET
AND START PART III, FUNCTIONAL TASKS

PART III
QUESTIONNAIRE

GENERAL TASKS

1. Review A/C discrepancy sheets for required action
2. Review MAFS or SAFS
3. Prepare discrepancy reports
4. Make entries in A/C log books
5. Prepare portions of flight plans
6. Prepare 3M form for optical scanner or Bunko Ramo 700
7. Proof read correspondence
8. Repair tires or inner tubes
9. Torque hardware
10. Fill out applicable portion of MAFS or SAFS
11. Inventory equipment, parts, tools, supplies, or components
12. Process oil analysis requests
13. Brief pilots or crew chiefs on maintenance performed on A/C
14. Research publications for parts, part numbers, or stock numbers
15. Assign Job Control Numbers (JCN) or Production Control Numbers (PCN)
16. Participate in FOD walks
17. Clean tools or equipment
18. Maintain Ground Support Equipment (GSE) records or log books
19. Discuss discrepancy reports (gripe sheets) with pilots or maintenance personnel
20. Set-up or secure welding apparatus

21. Prepare metal for welding, brazing, or soldering
22. Tie-down or secure A/C
23. Inspect safety and bonding wires
24. Replace safety or bonding wires
25. Prepare TIMIS, CAMIS, or SAMIS's
26. Cut stencils or templates
27. Issue or receive equipment, parts, supplies, etc.
28. Tow A/C or GSE
29. Replace engine or system gaskets
30. Heat treat metal
31. Update publications with changes (manuals, messages, bulletins, etc.)
32. Conduct GMS/ITEM training
33. Provide current flight charts or maps to pilots and co-pilots.
34. Give deck or ground handling signals
35. Install hydraulic lines or hoses
36. Plan or prepare unit safety program
37. Manufacture flexible hoses
38. Complete purchase orders en-route (fuel, oil, etc.)
39. Weigh gas cylinders or bungee bottles
40. Clean hanger decks

41. Make tests for Quality Assurance examination
42. Rough out specifications and drawings
43. Process requests for TAD orders
44. Make staff visits to subordinate units
45. Conduct technical training classes
46. Monitor training
47. Coordinate with NAVAIR SYSCOM
48. Serve as a member of boards or committees
49. Accompany CDIs on assigned inspections
50. Coordinate with FAA
51. Scrub batteries
52. Prepare high time components lists
53. Prepare status reports on personnel or equipment
54. Maintain pass down or turn over records (crew relief, billet relief)
55. Verify content of technical publications
56. Keep unit trend analysis reports or records
57. Test or certify "turn-up" personnel
58. Maintain Technical Publications Library (TPLs)
59. Review Maintenance Data Reports (MDR) for trends
60. Screen unsatisfactory report (UR) entries

61. Compute power plant, airframe, or components time
62. Change tires
63. Service tires
64. Charge batteries
65. Inspect torqued components
66. Make horizontal welds
67. Make vertical welds
68. Update or correct maintenance or manhour data
69. Make recommendations for changes to MOS Manual, T/O's or allowance lists
70. Recommend lay out of facilities
71. Assist in equipment evaluation programs
72. Maintain personnel status boards
73. Draft or rough out correspondence
74. Record minutes of meetings or conferences
75. Prepare briefings or briefing documents
76. Prepare power plant transaction reports
77. Prepare A/C status reports
78. Prepare lesson plans
79. Prepare training reports
80. Prepare embarkation reports or forms

81. Maintain administrative status boards
82. Route correspondence, reports, memos or messages
83. Review work center source documents for accuracy
84. Maintain computer print out library or file
85. Compute equipment or component failure rates
86. Make overhead welds
87. Weld ferrous metals
88. Maintain A/C or equipment status boards
89. Prepare metal surfaces for painting
90. Prepare fiberglass surfaces for painting
91. Weld non-ferrous metals
92. Check operation of A/C radios
93. Check operation of A/C navigational aids
94. Rebuild regulators for gas cylinders
95. License personnel for cockpit work
96. Service batteries (water, electrolyte)
97. Inspect bungle bottles
98. Insure work guides, check off lists, MRC and check sheets are updated and complete
99. Compare naval maintenance standards with local achievements
100. Compute status rates by type A/C or equipment

101. Compile manpower data
102. Draw cartoons or caricatures
103. Make test for the collateral duty inspector (CDI) examination
104. Compile monthly maintenance summaries
105. Brief on trends or special reports
106. Compile source documents from work centers to be key punched
107. Maintain visual information display (VID) board or maintenance register
108. Review the morning reports
109. Notify work centers of maintenance requirements
110. Monitor RCA or rotatable pools
111. Deliver parts, components or material to work centers
112. Plan visitor itineraries
113. Make flat welds
114. Tap holes
115. Monitor progress of new equipment or programs
116. Counsel personnel
117. Keep personnel records
118. Maintain schedule of component replacements
119. Maintain bulletin boards
120. Type correspondence, stencils or reports

121. Collect work center source documents
122. Review computer print outs for accuracy
123. Extract special or non-standard data from maintenance reports
124. Compute cannibalization rates
125. Compute readiness or utilization rates
126. Project work load rates for work centers
127. Coordinate data processing input with user requests
128. Screen ASD, MDR or MHA reports
129. Change dessicant filters
130. Read or interpret IPB's, schematics or blueprints
131. Advise corrective action on equipment or A/C failures
132. Conduct audit of work center procedures
133. Monitor status of calibrated equipment
134. Maintain equipment calibration records
135. Test or certify Collateral Duty Inspectors (CDIs)
136. Verify A/C Statistical Data (ASD) or Equipment Statistical Data (ESD) listings
137. Review A/C or Equipment Statistical Data (ASD/ESD) for trends
138. Maintain MAF, SAF, ORC, IRC or AIMD files
139. Prepare A/C availability reports
140. Control A/C component or part cannibalization

141. Insure proper packing and documentation of equipment or materials
142. Monitor status of requisitioned parts or components
143. Prepare or process Technical Directive Compliance Forms (TDCs)
144. Program A/C inspections
145. Maintain reference code file for 3M data forms
146. Review A/C inspection records
147. Maintain pre expended bins (PEB)
148. Coordinate support from other than Group or Station sources
149. Remove paint from metal surfaces
150. Remove paint from fiberglass surfaces
151. Coordinate inter-unit parts or equipment loans
152. Maintain file system
153. Complete project "PRIME" reports
154. Prepare graphs, charts, or diagrams
155. Compile activity calendars
156. Coordinate with civilian manufacturers, contractors, or technical representatives
157. Compile agenda items for meetings or conferences
158. Coordinate security requirements
159. Change or clean air filters or screens
160. Change or clean oil filters

161. Change or clean fuel filters
162. Stress-relieve metal
163. Inspect work center files, equipment or personnel
164. Conduct maintenance administrative inspections
165. Assign priority to supply requisitions
166. Assign personnel to out-of-shop commitments
167. Change batteries
168. Manufacture rigid lines
169. Train OJT/TMU personnel
170. Control classified material
171. Troubleshoot pneumatic systems
172. Troubleshoot hydraulic systems
173. Change or clean hydraulic filters or screens
174. Investigate equipment or A/C failures
175. Interview personnel for classification or assignments
176. Maintain master MRC decks
177. Maintain custody file cards
178. Inventory manuals, publications, or changes
179. Distribute manuals, publications, or changes
180. Advise on maintenance administrative procedures

181. Monitor report submissions
182. Maintain message read boards
183. Compute manhour/flight hour relationships
184. Prepare monthly maintenance plan
185. Distribute discrepancy records
186. Keep production records
187. Compute component repair time
188. Requisition manuals, publications, or changes
189. Repair battery chargers
190. Solder electrical connections
191. Repair electrical connections
192. Load-test hydraulic jacks
193. Rebuild hydraulic jacks
194. Research publications for A/C equipment operation or maintenance data
195. Order office supplies
196. Prepare MRC changes
197. Order parts, components or equipment
198. Establish work priorities
199. Inspect working areas
200. Insure compliance with safety regulations

201. Make personnel assignments
202. Assign A/C to flight schedule
203. Deliver "ready for issue" parts or material (RFI)
204. Keep training records
205. Program A/C for Progressive Air Rework (PAR)
206. Maintain A/C discrepancy records
207. Screen messages or correspondence for pertinent information or action
208. Monitor personnel assignments
209. Prepare unsatisfactory material or condition reports (URs)
210. Check fuel for contamination
211. Schedule training
212. Conduct tours
213. Complete discrepancy records with appropriate data

GROUND SUPPORT EQUIPMENT AND CRYOGENICS TASKS

214. Bleed product storage tanks
215. Remove or install Ground Support Equipment (GSE) electric motors
216. Remove perlite
217. Remove or install GSE fans
218. Remove or install GSE bearings
219. Troubleshoot GSE refrigeration problems
220. Remove or install GSE heater bands

221. Remove or install GSE evaporators
222. Remove or install GSE air conditioner compressors
223. Remove or install GSE refrigeration valves
224. Remove or replace GSE evaporator pressure regulators
225. Pressure check GSE refrigeration systems
226. Check for fresh leaks (halide torch)
227. Replenish fresh in GSE refrigeration or air conditioning units
228. Rebuild GSE hydraulic pumps
229. Rebuild GSE brake systems
230. Rebuild GSE hydraulic cylinders
231. Troubleshoot GSE hydraulic problems
232. Remove or install defective GSE hydraulic connections or couplings
233. Remove or install GSE hydraulic cylinders
234. Remove or install GSE hydraulic pumps
235. Flush GSE hydraulic systems
236. Lap metal surfaces
237. Remove or install GSE hydraulic system reservoirs
238. Remove or install GSE hydraulic system valves
239. Remove or install GSE wheel assemblies or components
240. Inspect GSE brake systems for wear and malfunctions

241. Cut access holes on GSE
242. Make sheet metal panels for GSE
243. Straighten dented surfaces on GSE
244. Paint Ground Support Equipment (GSE)
245. Replenish hydraulic fluid in GSE
246. Remove or install GSE fault pressure modules
247. Repair electrical timers
248. Remove or install GSE electrical timers
249. Remove or install GSE electrical relays
250. Remove or install GSE out-put or control panels
251. Remove or install GSE capacitors, resistors, or diodes
252. Remove or install GSE fuses or fuse holders
253. Remove or install GSE time-delay controls
254. Remove or install GSE voltage regulators
255. Remove or install GSE cannon plugs
256. Perform electrical operation checks on GSE
257. Remove or install GSE electrical switches
258. Remove or install GSE circuit breakers
259. Remove or install GSE electrical wiring
260. Adjust GSE electrical sequence switches

261. Rebuild GSE starters
262. Remove or install GSE starters
263. Rebuild GSE generators or alternators
264. Clean GSE generators or alternators
265. Remove or install GSE generators or alternators
266. Remove or install regenerator in GBIA
267. Remove or install switches in GBIA
268. Remove or install combustion cannisters in GBIA engines
269. Clean combustion cannisters in GBIA engines
270. Remove or install GSE turbine engine fuel system components in GBIA
271. Remove or install GSE turbine engine exhaust system components in GBIA
272. Remove or install GSE air ducts
273. Align GSE wheels
274. Adjust GSE hydraulic valves
275. Remove or install ether bottles on GSE
276. Calibrate GSE gauges or instruments
277. Replace GSE axles
278. Remove or install GSE drive belts
279. Remove or install GSE measuring gauges or instruments
280. Remove or replace GSE electrical receptacles

281. Remove or install GSE charging circuits
282. Remove or install field flash guns
283. Remove or install GSE instrument sending units
284. Remove or install GSE governor assemblies
285. Test GSE distributors
286. Remove or replace GSE distributors
287. Repair GSE input cables or input cable heads
288. Change GSE electrical terminal boards for required output
289. Remove or install GSE electrical terminal boards
290. Inspect GSE for serviceability
 1. Remove or install GSE lights or bulbs
291. Make GSE modifications
292. Test GSE fault pressure modules
294. Clean atomizers
295. Activate side bleed gel traps on GB1A
296. Monitor regeneration or distillation panels on GB1A
297. Maintain GSE handling wheels
298. Rebuild GSE fault pressure modules
299. Adjust timing on GSE engines
300. Adjust GSE clutches

301. Remove or install GSE clutches
302. Remove or install GSE oil cooling coils or oil coolers
303. Remove or install GSE magnetos
304. Test run GSE reciprocating engines after repairs
305. Control LOX/LN purities
306. "Thaw" GBIA
307. Remove or install GSE diesel engine turbine blowers
308. Remove or install GSE engine controls
309. Rebuild GSE hand fuel primers
310. Remove or install GSE reciprocating engine cooling system components
311. Remove or install GSE superchargers
312. Remove or install GSE reciprocating engine exhaust system components
313. Troubleshoot GSE reciprocating engines for mechanical problems
314. Remove or install GSE reciprocating engines
315. Remove or install power source "package" in GBIA
316. Perform operational checks on GBIA
317. Fuel or defuel GSE equipment cryogenics
318. Flush GSE fuel tanks
319. Change GSE air starter hoses
320. Drain water from GSE tanks or reservoirs

321. Lubricate or "PM" GSE
322. Coordinate use or location of GSE
323. Remove or install GSE steel cables
324. Incorporate GSE technical directive changes (TDCs)
325. Inspect GSE for leaks, loose hardware, etc.
326. Tighten or replace GSE hardware
327. Adjust GSE drive belts
328. Troubleshoot GSE turbine engine for mechanical problems
329. Check GSE turbine assemblies for wear or damages
330. Remove or install GSE turbine engine turbine assemblies
331. Perform run-up checks on GSE turbine engines
332. Remove or install GSE turbine engine ignition system components
333. Remove or install GSE turbine engines
334. Remove or install GSE turbine engine fuel system components
335. Remove or install GSE turbine engine bleed air valves
336. Remove or install GSE turbine engine plenum, torso, or tail pipes
337. Check GSE turbine engine combustion cans for cracks, burn spots, etc.
338. Remove or install GSE turbine engine combustion cans
339. Remove or install valves in GB1A
340. Remove or install thermocouples in GB1A

341. Remove or install gauges or instruments in GBIA
342. Remove or install turbo-expander in GBIA
343. Purge LOX or gaseous oxygen storage containers
344. Deliver LOX or LN to dispensing points
345. Rebuild GSE oil heaters
346. Remove or install GSE heat exchangers or oil heaters
347. Flush GSE cooling systems
348. Service GSE cooling systems
349. Replace GSE engine gaskets
350. Remove or install power steering components
351. Remove or install GSE transmissions
352. Wash GSE
353. Rebuild carburetors on GSE engines
354. Remove or replace fuel pumps on GSE engines
355. Change injectors on GSE diesel engines
356. Change spark plugs, points or condenser on GSE engines
357. Grind valves on GSE engines
358. Adjust carburetors on GSE engines
359. Prepare GSE operation reports or records
360. Advise GSE maintenance procedures

AIRCRAFT TASKS

361. Perform functional checks on A/C fuel systems
362. Remove or hang external fuel tanks
363. Operate cargo or rescue hoists
364. Reposition A/C hoses and lines
365. Guide pilot during hovers or landings
366. Perform blade trackings
367. Remove or install avionics components on A/C
368. Fold rotor blades
369. Monitor flight engineer's panels
370. Control fuel load distribution during flight
371. Control A/C refueling system during inflight refueling operations
372. Replace oil or fuel seals on A/C reciprocating engine components
373. Adjust A/C reciprocating engine carburetors
374. Remove or install A/C reciprocating engine carburetors
375. Set A/C reciprocating engine valve clearances
376. Set pump pressures for A/C reciprocating engines
377. Remove or install A/C reciprocating engine supercharger actuating assemblies
378. Inspect A/C reciprocating engine superchargers
379. Time A/C reciprocating engines
380. Remove or install A/C reciprocating engine lubrication system components

381. Remove or install A/C reciprocating engine ignition system components
382. Remove or replace A/C reciprocating engine linkages
383. Remove or install A/C reciprocating engine magnetos
384. Remove or install A/C reciprocating engine generators
385. Inspect A/C for corrosion
386. Fabricate A/C access panels
387. Apply non-skid to A/C
388. Fabricate A/C control cables or ground wires
389. Inspect A/C flight or utility control cables, tubes, rods, etc.
390. Tighten or replace A/C hardware items on doors, panels, or plates
391. Inspect A/C hardware items on doors, panel or plates
392. Replace A/C stringers or ribs
393. Replace A/C skin
394. Remove or install A/C stress panels
395. Treat A/C corroded surfaces (chemically or vacuum blast)
396. Install airframe modification kits
397. Mix methane/ethyl/ketone (MEK) solutions to repair A/C fiberglass
398. Adjust A/C cable tensions
399. Troubleshoot A/C cable systems
400. Remove scratches from A/C windows or canopies

401. Inspect A/C air conditioner/pressurization turbines
402. Remove or install A/C air conditioner/pressurization turbines
403. Remove or install jet engine gear boxes
404. Inspect jet engine gear boxes
405. Inspect ejection seat link lines or linkages
406. Remove or install ejection seat link lines or linkages
407. Remove or install hoses or lines in A/C environmental/pressurization systems
408. Inspect ejection seat drogue guns
409. Remove or replace ejection set drogue guns
410. Inspect ejection rockets
411. Remove or replace ejection seat rockets
412. Replace ejection rocket motor propellants
413. Seal A/C pressurization leaks
414. Remove or install A/C nitrogen or oxygen cylinders
415. Inspect jet engine nozzle area controls (NAC)
416. Remove or install jet engine nozzle area controls (NAC)
417. Remove or install jet engine bleed valves or ports
418. Inspect jet engine bleed valves or ports
419. Inspect jet engine bleed over-ride controls
420. Remove or install jet engine bleed over-ride controls

421. Inspect jet engine compressor cases
422. Remove or install jet engine compressor case
423. Inspect jet engine combustion cases
424. Remove or install jet engine combustion cases
425. Remove or install jet engine pressure-ratio bleed controls
426. Inspect jet engine pressure-ratio bleed controls
427. Remove or install jet engine fuel flow transfer pumps
428. Inspect jet engine fuel flow transfer pumps
429. Remove or install turbine engine power turbine rotor assemblies
430. Repair turbine engine power turbine rotor assemblies
431. Inspect turbine engine power turbine rotor assemblies
432. Replace turbine engine power out-put shafts
433. Inspect turbine engine power out-put shafts
434. Remove or install turbine engine turbine casings
435. Repair turbine engine turbine casings
436. Inspect turbine engine turbine casings
437. Remove or install turbine engine exhaust frame assemblies
438. Repair turbine engine exhaust frame assemblies
439. Replace turbine engine ignitors
440. Remove or install turbine engine combustion sections

441. Repair turbine engine combustion assemblies
442. Inspect turbine engine combustion assemblies
443. Remove or replace turbine engine carbon seals
444. Pressure test turbine engine carbon seals
445. Inspect turbine engine carbon seals
446. Replace turbine engine starter generators
447. Repair turbine engine generators
448. Remove or install turbine engine gas generator or rotor assemblies
449. Repair turbine engine gas generator or turbine rotor assemblies
450. Inspect turbine engine gas generator or rotor assemblies
451. Remove or replace turbine engine bearings
452. Inspect turbine engine bearings
453. Remove or replace turbine engine fuel pumps
454. Inspect turbine engine fuel pumps
455. Remove or install turbine engine torque sensor shaft and tubes (torquemeter)
456. Inspect turbine engine torque sensor shaft and tubes
457. Remove or install A/C engines
458. Transfer A/C engines between workstand, transportation trailer, or test beds
459. Preserve or depreserve A/C engines
460. Inspect carbon dioxide (CO₂) system in test cells

461. Maintain blast and sound suppression equipment and spray rings
462. Inspect A/C engines for leaks in test cell while in operation
463. Turn-up A/C engines in test cell
464. Connect or disconnect A/C engines to test bed or control panel
465. Make parachute or helmet bags
466. Patch rips or tears in parachutes
467. Alter harness straps
468. Repair or modify flight helmets
469. Clean oxygen masks
470. Repair oxygen masks
471. Test oxygen masks
472. Turn-up reciprocating A/C engines
473. Turn-up jet A/C engines
474. Remove or install components on A/C buddy-store systems
475. Perform A/C operational checks on buddy-store systems
476. Inspect A/C buddy-store systems
477. Service A/C hydraulic reservoirs
478. Remove or install A/C hydraulic reservoirs
479. Inspect A/C hydraulic reservoirs
480. Replace seals in A/C hydraulic reservoirs

481. Remove or install A/C hydraulic valves
482. Adjust A/C hydraulic valves
483. Inspect A/C hydraulic valves
484. Check A/C hydraulic lines for proper installation or alignment
485. Remove or install A/C pneumatic compressors
486. Service A/C pneumatic compressors
487. Inspect pneumatic compressors
488. Service A/C struts (nitrogen, air, fluid)
489. Rebuild A/C struts
490. Repack A/C struts
491. Inspect A/C struts
492. Remove or install A/C control or utility gear boxes
493. Inspect A/C control or utility gear boxes
494. Rebuild helicopter short shafts
495. Inspect helicopter short shafts
496. Balance helicopter tail rotors
497. Inspect helicopter rotor blades
498. Change helicopter swash plates
499. Inspect helicopter swash plates
500. Change helicopter rotor reduction gear assemblies

501. Remove or replace helicopter rotor heads
502. Rebuild helicopter rotor heads
503. Inspect helicopter rotor heads
504. Repack helicopter 40% or 90% gear boxes (tail rotor gear box)
505. Inspect helicopter 40% or 90% gear boxes (tail rotor gear box)
506. Clean or lubricate ejection seats
507. Remove or install canopy bungee bottles
508. Replace anti-G valves
509. Check operation of anti-G valve systems
510. Inspect anti-G valves
511. Test oxygen systems for contamination
512. Ground test cockpit pressurization systems
513. Adjust A/C environmental system valves
514. Control pressurization/air conditioning system in A/C during flight
515. Control anti-ice/de-ice systems during flight
516. Monitor A/C radios
517. Serve refreshments in-flight
518. Brief passengers on safety and emergency procedures
519. Rig A/C for passengers or cargo
520. Verify manifest for cargo or passengers

521. Assist pilot in run-up check prior to take offs
522. Monitor engine instruments in-flight
523. Clean A/C cargo compartments, heads and passenger compartments
524. Control flaps and landing gears
525. Determine A/C weight and balance factors
526. Load or unload A/C cargo
527. Remove or install A/C reciprocating engine cylinders
528. Remove or install dyna-focal or Lora mounts
529. Inspect dyna-focal or Lora mounts
530. Perform compression checks on A/C reciprocating engines
531. Check flight controls and flaps for freedom of movement and operation
532. Perform functional checks of engines, propellers, or electrical system on A/C reciprocating engines
533. Determine method of non-destructive test or inspections
534. Check A/C for cracks or defects by X-ray inspections
535. Remove or install turbine engines compressor stator assemblies
536. Repair turbine engine compressor stator assemblies
537. Adjust turbine engine variable stator actuating systems
538. Inspect turbine engine compressor stator assemblies
539. Repair turbine engine bleed air systems
540. Inspect turbine engine bleed air systems

541. Inspect A/C actuating cylinders
542. Remove or install A/C actuating cylinders
543. Service A/C actuating cylinders
544. Repack A/C actuating cylinders
545. Rebuild A/C actuating cylinders
546. Remove or install A/C hydraulic pumps
547. Rebuild A/C hydraulic pumps
548. Inspect A/C hydraulic pumps
549. Remove or install A/C accumulators
550. Repack A/C accumulators
551. Rebuild A/C accumulators
552. Service A/C accumulators
553. Inspect A/C accumulators
554. Remove or install A/C dampers
555. Service A/C dampers
556. Repack A/C dampers
557. Inspect A/C dampers
558. Remove or install A/C hydraulic restrictors
559. Remove or install A/C arresting hooks
560. Inspect arresting hook assemblies

561. Rig A/C utility controls
562. Raise or lower A/C with hydraulic jacks
563. Flush A/C hydraulic systems
564. Pressure test A/C brake assemblies
565. Pressure test hydraulic hoses or lines
566. Pressure check A/C hydraulic reservoirs
567. Cycle hydraulic systems (functional tests)
568. Rig A/C flight controls
569. Check hydraulic fluid for contamination
570. Test fuel nozzles
571. Make repairs to A/C engines in test cell
572. Dress or undress A/C engines for test cell
573. Maintain koppers units
574. Maintain air conditioners or heaters for test stand
575. Record A/C engine test data
576. Issue flight clothing or individual flight equipment
577. Maintain survival vests
578. Remove or replace engine fire extinguishers
579. Maintain external cargo lift equipment
580. Maintain SAR radios

581. Inspect A/C engine starters
582. Can or uncan A/C engines
583. Check for indications of fluid leaks on A/C
584. Bleed A/C hydraulic systems
585. Check A/C for cracks or defects by magnetic particle inspections
586. Perform dye check or bubble fuel leak check on A/C
587. Calibrate magnetest machine
588. Check A/C for cracks or defects by eddy-current inspections
589. Prepare A/C metal surfaces for non-destructive testing
590. Interpret non-destructive testing results
591. Conduct A/C metal hardness tests
592. Remove or install A/C flight control cables
593. Make fiberglass repairs on A/C
594. Inspect jet engine combustion cans
595. Remove or install air conditioner or heater on reciprocating engine A/C
596. Remove or install A/C boundary layer control (BLC) components
597. Inspect A/C boundary layer control (BLC) components
598. Remove or replace components on de-icer contact rings
599. Remove or replace de-icer boots
600. Check de-icer boots for operation

601. Repair turbine engine anti-icing systems
602. Inspect de-icing/anti-icing system components
603. Remove or install propeller assemblies on engines
604. Trouble shoot propeller assemblies
605. Rebuild propeller barrel assemblies
606. Inspect propeller barrel assemblies
607. Rebuild propeller dome assemblies
608. Inspect propeller dome assemblies
609. Adjust propeller Beta tube assemblies
610. Inspect propeller Beta tubes
611. Disassemble or assemble propeller blade assemblies
612. Inspect propeller blade assemblies
613. De-sludge propellers
614. Blend propeller blades
615. Remove or install components on propeller control assemblies
616. Inspect components on propeller control assemblies
617. Remove or install propeller governors
618. Make adjustments to propeller governors
619. Adjust linkage to A/C hydraulic components
620. Test helicopter rotor fold system

621. Remove or install helicopter dual upper boost sections
622. Inspect helicopter dual upper boost sections
623. Remove or install helicopter rotor drive shafts
624. Inspect helicopter rotor drive shafts
625. Service helicopter rotor brakes
626. Remove or install helicopter main rotor hubs
627. Inspect helicopter main rotor hubs
628. Turn-up A/C turbine engines
629. Operate ramp or cargo doors
630. Troubleshoot A/C systems during flight
631. Transfer or shut down A/C systems during flight
632. Ignite A/C JATO on take-offs
633. Remove or replace auxilliary power plant clutches
634. Change clutch shoes
635. Adjust shoes on clutches
636. Inspect auxilliary power plant clutches
637. Remove or install jet engine electrical harness
638. Inspect jet engine electrical harness
639. Remove or install A/C fuel system valves
640. Inspect A/C fuel system valves or lines

641. Paint A/C
642. Remove or install A/C engine starters
643. Prepare A/C engine for canning or preserving
644. Preserve or depreserve A/C components
645. Remove or install jet engine control alternators
646. Inspect jet engine control alternators
647. Remove or replace pressurization seals (window, canopy, door, etc.)
648. Troubleshoot A/C environmental system
649. Extract damaged bolts, screws or rivets
650. Manufacture bushings
651. Stop-drill cracks on A/C structure
652. Layout patch or part patterns
653. Check A/C lights for damage or operation
654. Seal A/C fuel tanks
655. Replace A/C control or utility surfaces
656. Inspect jettison cartridges or quillotine mechanisms
657. Clean or flush A/C external fuel tanks
658. Remove or install A/C fuel cells
659. Connect or disconnect external air or electric power to A/C
660. Remove or install jet engine fuel transfer or boost pumps

661. Troubleshoot jet aircraft fuel systems
662. Inspect jet engine fuel transfer or boost pumps
663. Trim jet engines
664. Troubleshoot jet engines
665. Perform low or full power jet engine checks
666. Rig jet engine afterburner or afterburner feedbacks
667. Rig jet engine main throttle loop
668. Rig jet engine inlet guide vanes (IGV's)
669. Change oil pumps
670. Remove or install helicopter rotor wiring harness
671. Inspect helicopter rotor wiring harness
672. Remove or replace helicopter nose gear boxes
673. Inspect helicopter nose gear boxes
674. Preserve or depreserve airframes
675. Test LOX converter for leakage or flow rates
676. Remove or install A/C LOX converters
677. Recharge LOX converters
678. Inspect A/C LOX converters
679. Make wooden jigs
680. Repair oxy-acetylene equipment leaks

681. Replace defective welding apparatus parts or components
682. Survey empty gas cylinders (gaseous N₂, O₂ acetylene)
683. Braze metal
684. Solder metal with silver or lead
685. Cut metal with oxy-acetylene equipment
686. Remove or replace thrust sensitive signal devices (auto-feather)
687. Inspect thrust sensitive signal devices (auto-feather)
688. Remove or replace turbine engine wiring harness
689. Inspect turbine engine wiring harness
690. Remove or replace turbine plenum
691. Inspect turbine plenum
692. Remove or install turbine engine compressor interstage duct assemblies
693. Inspect turbine engine compressor interstage duct assemblies
694. Remove or install jet engine accessory adaptor or mounting pads
695. Inspect jet engine accessory adaptor or mounting pads
696. Remove or install jet engine airframe, vapor, duct, or air seals
697. Inspect jet engine airframe, vapor, duct, or air seals
698. Remove or install jet engine ignition harness, exciters, or spark plugs (ignitors)
699. Inspect jet engine ignition harness, exciters, or spark plugs (ignitors)
700. Trim A/C canopies or doors

701. Pack seat pans
702. Remove or install A/C seat pans
703. Inspect A/C seat pans
704. Remove or install A/C ejection seats
705. Inspect A/C ejection seats
706. Blend compressor turbine or stator blades
707. Clean compressor , stator, or turbine blades
708. Inspect compressor, stator, or turbine blades
709. Remove or install A/C canopies
710. Remove or install A/C windscreens
711. Clean or polish canopies
712. Inspect A/C canopies or windscreens
713. Remove or install jet engine combustion cans
714. Remove or install jet engine combustion liners
715. Inspect jet engine combustion liners
716. Remove or install jet engine hot section blankets
717. Inspect jet engine hot section blankets
718. Remove or install jet engine turbine cases
719. Inspect jet engine turbine cases
720. Remove or install jet engine turbine rotors

721. Inspect jet engine turbine rotors
722. Remove or install jet engine turbine frames
723. Inspect jet engine turbine frames
724. Remove or install jet engine 1st stage nozzles or transition ducts
725. Inspect jet engine 1st stage nozzles or transition ducts
726. Remove or install forward exhaust duct assemblies
727. Inspect forward exhaust duct assemblies
728. Remove or install jet engine spraybar assemblies
729. Inspect jet engine spraybar assemblies
730. Remove or install jet engine tailpipe assemblies
731. Inspect jet engine tailpipe assemblies
732. Remove or install jet engine afterburner assemblies
733. Inspect jet engine afterburner assemblies
734. Wash or clean A/C engines
735. Remove or install the turbine engine front frame or inlet housing assemblies
736. Repair the turbine engine front frame or inlet housing assemblies
737. Inspect the turbine engine front frame or inlet housing assemblies
738. Remove or install the turbine engine accessory drive gear assemblies
739. Inspect the turbine engine accessory drive gear assemblies
740. Repair turbine engine internal washing systems

741. Inspect turbine engine internal washing systems
742. Remove or install the turbine engine compressor rotor assemblies
743. Repair the turbine engine compressor rotor assemblies
744. Inspect the turbine engine compressor rotor assemblies
745. Service dash-pot
746. Change A/C brake assemblies
747. Rebuild A/C brake assemblies
748. Adjust A/C brakes
749. Peddle-test A/C brakes
750. Build-up A/C wheel assemblies
751. Inspect brake or wheel assemblies
752. Repair A/C hydraulic module assemblies
753. Inspect A/C hydraulic module assemblies
754. Fit exposure suits
755. Compute flow rate corrections for oxygen regulator testers
756. Maintain rescue kits
757. Repair or replace restraint system on A/C (lap belts, cargo tie-downs)
758. Inspect parachutes
759. Test head sets and mikes
760. Fit anti-G suits

761. Sew patches, name tags, or pockets on clothing
762. Prepare work requests for test cell attachments or modifications
763. Compute A/C engine trim targets
764. Maintain test cell tubing, lines, hoses or pipes
765. Repair turbine engine pneumatic starting systems
766. Inspect turbine engine pneumatic starting systems
767. Remove or replace turbine engine speed sensitive control systems
768. Inspect turbine engine speed sensitive control systems
769. Disassemble or assemble turbine engine compressor diffuser assemblies
770. Inspect turbine engine compressor diffuser assemblies
771. Inspect turbine engine compressor rear frames
772. Repair turbine engine compressor rear frames
773. Disassemble or assemble turbine engine compressor casing assemblies
774. Remove or install turbine engine compressor rear frames
775. Inspect turbine engine exhaust frame assemblies
776. Inspect electrical wiring and components for mounting and condition
777. Inspect pressurization seals
778. Shape metal
779. Modex aircraft
780. Replace A/C fairings

781. Replace A/C landing gear doors
782. Make A/C honeycomb repairs
783. Remove or attach A/C tail sections
784. Make lap patches for A/C
785. Make flush patches for A/C
786. Install armor plating on A/C
787. Process X-ray films
788. Demagnetize metals
789. Monitor radiation exposure devices
790. Inspect structural repairs
791. Thread bolts
792. Service alcohol reservoirs
793. Troubleshoot A/C reciprocating engine
794. Take fuel samples from A/C
795. Fuel or defuel A/C
796. Strap or unstrap air crew in cockpit
797. Change drive belts
798. Change brackets
799. Change A/C winch assemblies
800. Repair A/C winch assemblies

801. Inspect A/C winch assemblies
802. Clean or repack A/C wheel bearings
803. Check A/C gauges or dials for proper readings
804. Pre-oil A/C engines
805. Repack or replace drag chutes
806. Vacuum or clean cockpits
807. Remove or replace A/C transmissions
808. Inspect A/C transmissions
809. Adjust drive pulleys
810. Index controls to propellers
811. Make adjustments to Micro-Ring
812. Service propeller control assemblies
813. Adjust helicopter rotor brakes
814. Rebuild helicopter rotor brakes
815. Remove or install helicopter rotor brakes
816. Inspect helicopter rotor brakes
817. Modify life rafts
818. Paint life rafts
819. Test oxygen regulators
820. Test barostats

821. Monitor or interpret test cell instruments, digital counters or analyzers
822. Repair test cell intercom systems
823. Fuel or defuel test cells
824. Remove or replace navigation lamps or lenses
825. Check air intakes on A/C engines for foreign objects or damages
826. Notify maintenance control of required A/C maintenance
827. Check switches or circuit breakers on A/C for operation and position
828. Remove or install jet engine bearings, bearing supports, or carbon seals
829. Inspect jet engine bearings, bearing supports, or carbon seals
830. Test jet engine carbon seals
831. Remove or install A/C engine oil tanks
832. Inspect A/C engine oil tanks
833. Remove or install A/C engine oil pumps
834. Inspect A/C engine oil pumps
835. Remove or install environmental system heat exchangers
836. Remove or install environmental/pressurization system valves (by-pass, bleed air shut off, etc.)
837. Remove or install A/C temperature control units
838. Inspect environmental heat exchangers
839. Color code ejection seat components
840. Check egress system components for mounting, movement or security

841. Check functioning of ejection seat linkages
842. Remove or replace ejection or separation cartridges
843. Test Time-Release Mechanisms (TRM)
844. Inspect A/C structures for scratches, holes or fractures
845. Replace A/C cable guides, bell cranks, or push/pull rods
846. Install A/C high shear fasteners
847. Install A/C quick release fasteners (CAM-LOC, AIRLOC, DZUS)
848. Repair A/C ribs, stringers, or bulkheads
849. Install solid or blind rivets
850. Dimple sheet metal for flush riveting
851. Bend metal to A/C specifications
852. Cut metal to A/C specifications
853. Grease or lubricate A/C
854. Perform vacuum tests on A/C fuel tanks
855. Check A/C reciprocating engines for oil leaks and cracks
856. Inspect A/C reciprocating engine ignition harnesses
857. Remove or install A/C reciprocating engine fuel manifolds intake pipes
858. Inspect A/C reciprocating engine fuel manifold intake pipes
859. Remove or install A/C reciprocating engine exhaust pipes
860. Inspect A/C reciprocating engine exhaust pipes

861. Inspect A/C reciprocating engine cooling baffles
862. Remove or install A/C reciprocating engine cooling baffles
863. Inspect turbine engine lube or vent lines
864. Replace turbine engine lube or vent lines
865. Remove or replace turbine engine lubrication or scavenge pump assemblies
866. Inspect turbine engine lubrication or scavenge pump assemblies
867. Remove or replace turbine engine fuel manifolds or nozzles
868. Inspect turbine engine fuel manifolds or nozzles
869. Remove or replace turbine engine fuel flow dividers
870. Inspect turbine engine fuel flow dividers
871. Remove or replace turbine engine fuel controls
872. Inspect turbine engine fuel controls
873. Repair turbine engine TAC generators
874. Remove or replace turbine engine TAC generators
875. Inspect turbine engine TAC generators
876. Remove or install jet engine temperature amplifiers
877. Inspect jet engine temperature amplifiers
878. Inspect jet engine main fuel or afterburner pumps
879. Remove or install jet engine main fuel or afterburner pumps
880. Remove or install jet engine fuel controls or power lever controls

881. Inspect jet engine fuel controls or power lever controls
882. Remove or install jet engine nozzle guide vanes
883. Inspect jet engine nozzle guide vanes
884. Remove or install A/C air coolers
885. Inspect A/C air coolers
886. Remove or install A/C fuel/oil coolers
887. Inspect A/C fuel/oil coolers
888. Remove or install A/C air/oil coolers
889. Inspect A/C air/oil coolers
890. Remove or install jet engine constant speed drives (CSDs)
891. Disassemble or assemble jet engine CSD units
892. Inspect jet engine CSD units
893. Flush jet engine CSD units
894. Troubleshoot jet engine CSD units
895. Remove or install jet engine generators
896. Inspect jet engine generators
897. Certify A/C engine, airframe, or component status (repairable beyond controlled maintenance, etc.)
898. Remove or install A/C engine instruments sending units
899. Inspect A/C engine instrument sending units
900. Remove or install A/C engine instrument sensing units

901. Inspect A/C engine instrument sensing units
902. Taxi A/C
903. Wash A/C
904. Remove or install turbine engine speed decrease gear boxes
905. Inspect turbine engine speed decrease gear boxes
906. Remove or install turbine engine out-put reduction carrier gear assemblies
907. Inspect turbine engine out-put reduction carrier gear assemblies
908. Replace turbine engine overspeed protection systems
909. Inspect turbine engine overspeed protection systems
910. Repair turbine engine electrical systems
911. Inspect turbine engine electrical systems
912. Repair helicopter rotor blades
913. Pressure-check A/C rotor seals and bearings
914. Change A/C transmission servo's
915. Make name tags
916. "Tac" D-rings, harness pins, etc.
917. Test survival radios
918. Hang parachutes
919. Test G-suits for pressures
920. Pack parachutes

921. Dye parachutes
922. Test flight flotation equipment
923. Repair flight flotation equipment
924. Repack flight flotation equipment
925. Inspect survival pack components
926. Test batteries or flashlights in survival packs
927. Maintain test cell electrical systems
928. Maintain or repair test cell connector pannels
929. Repair glycerin pressure system for test cell instruments
930. Flush air engine oil systems
931. Lubricate test cell components
932. Remove or install turbine engine combustion casing
933. Inspect turbine engine combustion casing
934. Remove or install turbine engine compressor casing
935. Inspect turbine engine compressor casing
936. Prepare A/C for PAR
937. Advise on A/C maintenance procedures

THE END
THANK YOU