

中远集团船员英语
适岗考试指导丛书

轮机英语试题集及解答

Collected English Examination Questions
and Explanations for Marine Engineering

(管理级适用)

主编 张晋莒 刘 蓓



大连海事大学出版社

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编者的话

应广大船员的要求,现将中远集团船员英语适岗考试部分考过的试题编辑成《轮机英语试题集及解答》,供学习参考。

《轮机英语试题集及解答》分为两册,一册适用于支持级与操作级,另一册适用于管理级,内容包括:

轮机2~6级笔试部分:按船员英语适岗考试笔试试题格式编排,采集轮机2级选择题200题,3~6级选择题各250题;2级短语互译200题,3~6级阅读理解各30段;2~6级英译汉各50题,汉译英各50句。总题量累计近2000余道。

笔试题除阅读理解部分只给了答案外,对选择题、英译汉和汉译英题的疑难点和常犯错误,作了不同程度的诠注。总计近1500余条。所给语言和专业释疑,无论对船员的适岗考试还是英语学习,都有指导性的意义。

轮机2~6级听力部分:Section A 2级单词100题,3~6级单句各120题;Section B 2级单句100题,3~6级对话各120段;Section C 2级对话100题,3~6级短文各25题。仅A、B、C三部分的题干句,累计近1500个听力句子,基本涵盖了轮机业务的方方面面。

轮机2~6级口试部分:Section A 口述话题2级10个,3~6级各15个,Section B 问答题2级60个,3~6级各100个。口试部分2~6级采集的70多个题目和460个问题皆为各岗级的适岗业务。

听力及口试试题全部由外籍教师录制了相应的录音带。这不但适应了船员适岗考试的需要,而且反复听录音学习本试题集也是提高英语听力水平和学好轮机英语的重要途径。

为便于听音时参考,听力及口试题的试题答案及录音原文附后。

对如何进行应试,我们根据阅卷和教学经验,分别作了综合性“笔试指导”、“听力指导”和“口试指导”。在三个“指导”中,对适岗考试的内容、题型格式等作了详细介绍,并针对船员的应试困难,特别是听力和口试方面的实际困难,介绍了各部分的测试点及其解题技巧。船员如能认真阅读,相信肯定会有所启迪和帮助。

全书由张晋莒统稿。听力与口语录音由外籍教师完成。录音磁带由刘蓓制作。

本试题集编辑出版工作得到各方面的支持和帮助,特此致谢。但由于时间和水平所限,难免有不妥之处,恳请批评指正。

编者

2002年10月8日

序

中远集团船员英语适岗考试系列教材编委会编写的10本船员英语适岗考试系列教材从1999年出版发行以来,对提高船员的英语水平发挥了重要作用,受到了广大船员的热烈欢迎。报考的船员逐年增加,考试通过率逐步加大,特别是各船公司采取了调动船员学习英语的措施及各院校、培训中心加大了培训的力度,使中远集团的船员在国际劳务市场的竞争力逐步加强,声誉不断提高。中远集团船员英语考试中心为配合船员更好地学习英语,了解英语试题的题型格式,掌握听力、口语的技巧,提高应用能力,顺利通过适岗考试,推出了不同岗级的模拟试题供船员熟悉了解。同时,为使英语试题满足岗位的要求,使其更具有针对性、实用性,船员英语考试中心聘请了航海院校的英语教师及广远、上远、青远、中波等公司的一线船长、轮机长进行拟题,使船员英语试题库的题量不断充实和完善。到目前为止,已考45期21321人次,为中远集团船员的英语水平提高作出了很大贡献。

为了便于广大船员更好地学习英语,达到适岗要求,顺利通过适岗考试,应广大船员的要求,中远集团培训中心又将近几年来的英语试题汇编成《航海英语试题集及解答》(支持、操作级)、《航海英语试题集及解答》(管理级)和《轮机英语试题集及解答》(支持、操作级)、《轮机英语试题集及解答》(管理级),并将适岗英语词汇汇编成《航海英语词汇进阶》和《轮机英语词汇进阶》,这6本书作为海船船员适岗考试的指导丛书,更加完善了“中远集团船员英语测试体系”,必将对船员的考试会有很好的辅导和帮助作用。

相信这套指导丛书的出版,配合英语适岗考试系列教材的使用,对海船船员的英语水平达到适岗,促进船员的英语学习和满足国内外船东对船员的英语要求会起到积极的推动作用,对船员顺利通过适岗考试定会起到事半功倍的效果。但应注意的是,指导丛书只是备考书,用来指导船员顺利通过英语的适岗考试,不应去研究(或猜题)每期可能会考的内容。要真正掌握所在岗位的英语,还需依赖于对英语教材的刻苦学习和不间断的运用,因每期的试题不同,都会增加一些新的知识和内容。

我作为“中远集团船员英语测试体系”课题的负责人和中远集团船员英语适岗考试系列教材编委会主任,为6本指导丛书作序,无非是想通过几年来对中远集团投入大量的人力、财力建立起来的船员英语测试体系能够发挥更大的作用,满足国内外船东的需求,使中远集团的船员能够具有自立于世界航运界的能力。



2002年10月

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笔试部分

笔试指导

中远集团船员英语适岗考试笔试试题由下列四部分构成:

Section A 单项选择

Section B 阅读理解

(2 级):短语互译

Section C 英译汉

Section D 汉译英

Section A 单项选择题部分 2 级有 20 道题,3~6 级有 30 道题,其内容既有语言知识又有专业知识。

Section B 阅读理解部分有 3 篇短文(passages),原则上一段是科普内容,两段专业文章。2 级试题本部分是词组互译,英译汉 10 题,汉译英 10 题,共 20 个常用短语和英语名称。

Section C 英译汉部分主要是检测准确理解和表达语言的能力。2 级是 5 个句子,3~4 级是 5 段,5~6 级是 4 段。

Section D 汉译英部分主要检测笔译运用英语的能力。2 级是 5 个句子,3~4 级是 4 个句子,5~6 级是 5 个句子(其中第 5 题是个分值为 10 分的较长句子或段落)。

各级试题内容分类如下:

轮机 2 级 笔试

单项选择	20 句
词组互译	20 个
英译汉	5 句
汉译英	5 句

轮机 3~6 级 笔试

单 项 选 择	基本语法知识	词语及表达法 (WE)	4~5 句
		时态及语态 (TV)	2~3 句
		非限定性动词 (NV)	4~5 句
		句子结构 (SS)	4~6 句
		虚拟语气 (SM)	1 句
	专业知识	主机 (ME)	3 句
		辅机 (AM)	4 句
		电气及自动化 (EA)	1 句
		机舱管理 (EM)	2 句

续表

阅读理解	主机 (ME)	1 段
	辅机 (AM)	1 段
	机舱管理 (EM)	1 段
英译汉	主机 (ME)	1~2 段
	辅机 (AM)	1 段
	电气及自动化 (EA)	1 段
	机舱管理 (EM)	1 段
汉译英	主机及辅机 (MA)	1~2 句
	电气及自动化 (EA)	1 句
	机舱管理 (EM)	1 句
	书写部分 (WR)	1 句

英语适岗考试各级别试题内容紧紧围绕各岗级适岗工作的要求,包括高级消防与高级医护等最新内容,不仅要求船员有熟练的专业知识和专业技能,而且注重船员在实际工作中运用语言的能力。

所测试的语言知识内容都是轮机英语最基础的语言知识。轮机英语离开基础语言就无法表达其复杂的专业知识、机械结构、维修保养、故障排除等知识,因此,将句子结构、非谓语动词、基本时态、语态及虚拟语气结构等影响语言理解的语言现象作为重点测试项目。这些重点测试项目对各级别都是一样的,不同的是句子中词汇的难易程度及句子结构的复杂程度,而且即使对语言知识内容的测试,也是紧密结合各岗位专业知识的。

从专业知识测试内容来看,轮机 3~6 级都包含主机、辅机、电气设备及自动化和机舱管理的知识,但根据适岗要求,各级试题的选材内容各有所不同。同是有关主机的知识,轮机 3~4 级试题侧重其基本结构、工作原理、维护保养的基础知识;轮机 5~6 级则侧重故障排除等一些更为复杂的内容。有关辅机的专业知识,各轮机员分工明确,拟定试题时则以各自所负责的设备的专业知识为主。根据最新 STCW 公约的要求,电气及自动化也是各轮机员必须掌握的内容,视专业知识的特点,其各级别题目难易程度不同。机舱管理包含轮机员管理机舱的大量业务知识,特别是有关港口国监督、最新法规公约的要求以及消防和急救的内容,也应视为业务知识的特点,分别用于不同级别的试题。

鉴于轮机 3~4 级专业知识要注重操作级的内容,即基本专业知识、维护保养的基础知识,而轮机 5~6 级要侧重管理级的内容,即设备的运行管理、故障排除等专业知识,这些已在试题中有所体现。

轮机 5 级 笔试试题

Section A 单项选择

1. I hope you will be able to have the spare parts _____ quickly.
A. to make B. make C. made D. making
2. The motor for the fresh water pump _____.
A. need repairing B. needs to repair C. need to repair D. needs repairing
3. This new decontaminating apparatus _____ than yours.
A. are much better B. is much better C. are more better D. is more better
4. The main bearings, _____, each consists of two shells.
A. they support the crankshaft B. they drive the crankshaft
C. which support the crankshaft D. which drive the crankshaft
5. The corrosive plate to be cut off and _____ by welding.
A. built up B. patched up C. tightened up D. opened up
6. _____ and generator to be disconnected.
A. The main engine B. The auxiliary engine
C. The turbocharger D. The exhaust gas boiler
7. _____ found oval to be machined and chrome-plated.
A. Piston ring B. Gudgeon pin C. Crosshead pin D. The crank pin
8. Sound of friction can be heard at the windlass when _____.
A. you have heaved the anchor B. you had heaved the anchor
C. you heave the anchor D. you will heave the anchor
9. When cleaning the insulation, never use petrol or similar products _____ dissolve the varnishes.
A. necessary to B. as difficult to C. liable to D. as impossible to
10. Fuel oil is considered to be one of the main factors _____ with the operation and maintenance of an engine.
A. having many things B. having nothing to do
C. having much to do D. to have much to do
11. _____ between auxiliary engine and generator to be realigned.
A. Pipe line B. The centre line
C. The coupling D. The bolts and nuts
12. Defective parts _____ should be renewed, measurements should be taken as _____.

- A. if having any/ ordered B. if any/ required
C. if having any/requirement D. if there are any/asked
13. Grease the ball bearing (A), the roller bearing (B) and taper roller bearing (C) with high pressure gun.
A. (A) is right, (B) and (C) are wrong. B. (A) and (B) are right, (C) is wrong.
C. (A), (B) and (C) are wrong. D. (A), (B) and (C) are right.
14. A: Your ship is registered with Lloyd's Society. B: _____.
A. This survey will be carried out in accordance with the Rules and Regulation of AB
B. This survey will be carried out in accordance with the Rules and Regulation of BV
C. This survey will be carried out in accordance with the Rules and Regulation of ZC
D. This survey will be carried out in accordance with the Rules and Regulation of LR
15. We demand that the piston of cylinder No.1 _____ drawn out, cleaned and measured.
A. is B. was C. are D. be
16. Don't worry, Mr. Brown. The workers _____.
A. have finished the repair for two hours
B. have finished the repair two hours ago
C. finished the repair two hours ago
D. had finished the repair already
17. These are very important factors for safety. We must take them all _____.
A. into consideration B. for consideration
C. to consider D. for thinking
18. It _____ two weeks since the beginning of the repair. Why has it lasted so long?
A. is B. had been C. will have been D. will be
19. This machine is _____ that old one. Besides, it's more reliable.
A. twice as efficient as B. more than twice efficient as
C. twice efficient than D. twice efficient as
20. Our ship often comes to this little port and stays here for _____.
A. sometime B. some time C. some times D. sometimes
21. Diesel engines have more advantages _____ gasoline engines.
A. in comparison with B. in compare with
C. as comparing with D. compared
22. You have to fill up the form _____ and give me the copy. You can keep the original.
A. in 2 copies B. in duplicate C. for 2 copies D. on duplicate
23. I'm afraid you can't dismantle the equipment in that way _____.
A. in the case B. in any case C. in no case D. in case
24. Something went wrong with our No. 1 generator _____ of last voyage.
A. in the end B. by the end C. at the end D. to the end
25. You should put all information _____ the working condition of the equipment into the log book.

- A. relating to B. related with C. relating D. related
26. If you _____ proper measures earlier, the ship _____ damaged so badly in the accident the other day.
 A. had taken/would not have been B. took/would not be
 C. took/would not have been D. had taken/would not be
27. The process of a general marine A.C. generator generating electricity is the conversion of _____.
 A. mechanical energy into heat energy B. chemical energy into heat energy
 C. mechanical energy into electrical energy D. electrical energy into heat energy
28. In a two-stroke engine, the crankshaft is connected with _____ by means of the connecting rod.
 A. the stuffing box B. the piston
 C. the crosshead bearing D. the guide plate
29. The switchboards in which all the essential switchgears are exposed on the front of the panel is called _____.
 A. open type B. closed type C. dead front type D. hinged-door type
30. The unit used to indicate the refrigerating capacity is _____.
 A. rev/min B. cal/hrs C. kg/cm. sq D. cu. cm/hrs
31. It's a difficult job. _____ the job in so short a time is unknown to us.
 A. How they finished B. How did they finish
 C. That how they finished D. That how did they finish
32. Mr. Smith would like to know _____ carried out tomorrow. He is going to be present.
 A. when will the sea trial be B. when the sea trial will be
 C. that the time for the sea trial to be D. the time for the sea trial be
33. The machine _____ was damaged by the workers during repair. So they should bear the cost for repair.
 A. surveying B. to survey C. is being surveyed D. being surveyed
34. _____ in the middle of the system, the pump functions as a booster for the transfer of the fuel oil.
 A. Having fixed B. Fixing C. Fixed D. Fixes
35. In an emergency situation, the sea water pump can be used to supply sea water to the fresh water system, merely _____ the blind-flanges.
 A. to be moved B. remove C. in order to remove D. by removing
36. The work that fuel does in an engine _____.
 A. not only depend the fuel oil itself, but also its working condition
 B. not only depends the fuel oil itself, but also its working condition
 C. not only depends upon the fuel oil itself, but also upon its working condition
 D. not only depend on the fuel oil itself, but also on its working condition
37. The burning of the fuel adds more heat to the air charge, _____ the engine piston to do work

on the crankshaft which in turn drives the ship's propeller.

A. causing it to expand and force

B. to cause it expand and force

C. causing it expand and force

D. to cause it to expand and to force

38. From _____ the oil is pumped through a heater and a viscosity regulator.

A. a settling tank

B. fine filter

C. a tank in double bottom

D. a service tank

39. What we ordered _____ some engine parts.

A. is

B. are

C. was

D. were

40. In the part of the cylinder liner inside the _____ there is a series of openings known as scavenging air ports.

A. scavenging air box

B. scavenging air manifold

C. crankcase

D. supercharger

41. A number of cylinder liners _____ enclosed in one cast iron casing to form a cylinder block.

A. were

B. are

C. is

D. was

42. That is _____ a two-cycle engine could do about twice the work of a four-cycle engine of the same size.

A. why

B. reason

C. cause

D. for

43. The fuel pipe is three times _____ that one.

A. so long as

B. long as

C. longer than

D. longer as

44. The lube oil is injected between the liner and the piston by _____ which supply their individual cylinder as to cylinder lubrication.

A. injector pump

B. mechanical lubricator

C. oil-water separator

D. throttle

45. The switchboards for A.C. systems differ from the D.C. switchboard _____ the open type panels are generally not permissible.

A. is that

B. in which

C. in that

D. are those

46. The crankcase cover should never be allowed to open for investigation _____.

A. after the engine stops

B. when the engine is not in use for long

C. after the engine is overhauled

D. when the engine is running

47. All documents and certificates are put in the bookcase. _____, the engineers have their own documents.

A. Besides

B. Beside

C. Except

D. Except for

48. The projection on a shaft designed to change circular motion into up and down or back and fore motion is called a _____.

A. wheel

B. crankshaft

C. cam

D. gear

49. A moving object will certainly not accelerate or decelerate _____ a force is applied to it

A. otherwise

B. when

C. unless

D. so that

50. Open loop control system is _____ the control action is independent of the output.

A. that

B. that which

C. one which

D. in which

51. _____ is the break-down of surface tension between oil droplets in an oil water mixture which causes them to join and increase in size.
 A. Coalescence B. Gravity separation
 C. Atomization D. Collecting separation
52. _____ temperature of water of steam is the temperature at which water evaporates or steam condenses.
 A. The evaporating B. The condensing C. The saturation D. The boiling
53. When the engine obtains _____, the fuel pumps and valves are brought into operation and the starting air valves put out of commission.
 A. high efficiency B. large power C. good property D. sufficient speed
54. When the engine is new, the cylinder lubrication rate should normally be _____ when the engine is run in.
 A. as same as B. so same as C. smaller than D. greater than
55. _____, screws are very useful.
 A. As they are small B. They are as small
 C. Small as they are D. Are they small
56. A sealing arrangement is provided at either end of the tailshaft with _____ and cone _____ the arrangement.
 A. bearing/completing B. the propeller/completing
 C. thrust block/heing completed D. sterntube bearing/to be completed
57. The bearing bushes to be _____ after blue-oil test.
 A. fitted and chipped B. scraped and chipped
 C. fitted and scraped D. fitted and derusted
58. The fuel pump has the task of delivering fuel to the fuel valve at pressure ranging from _____.
 A. 20 – 50 N/cm² B. 200 – 500 N/cm²
 C. 2,000 – 5,000 N/cm² D. 20,000 – 50,000 N/cm²
59. Besides the starting air valve, the fuel valve, the indicator valve and the safety valve, some engines also have _____ in the center of the cylinder cover.
 A. exhaust valves B. relief valve
 C. shut-down valve D. scavenging valve
60. The pipe wrench doesn't seem good enough. I'm sorry to say I have to _____ this item.
 A. add B. get C. take D. recall
61. Hearing the abnormal noise, _____ immediately.
 A. the engineer on duty stopped the engine for inspection
 B. the engine was stopped for inspection
 C. the Chief Engineer was asked to come to the engine room
 D. the engine in reserve was started
62. The pistons _____ up and down keep the crankshaft _____.

A. moving/run

B. moving/running

C. moved/running

D. moved/run

63. When we make a claim for guarantee repair, it means we think the _____ should be responsible for the damage.

A. surveyor

B. owner

C. user

D. producer

64. Using a process called _____, a fully automatic system can sense the performance of the controlled machine.

A. put back

B. return back

C. get back

D. feedback

65. Different parts of the cylinder have different names, for example, its inner part is called _____.

A. cylinder liner

B. cylinder jacket

C. cylinder body

D. cylinder cover

66. Most of the medium speed diesel engines nowadays are of the _____ type.

A. crosshead

B. trunk piston

C. truck piston

D. reversible

67. The fuel injection system is very important, so any trouble of it will _____ the operation of the main engine.

A. be affected

B. be effected

C. effect

D. affect

68. Don't restart the engine _____ you eliminate the trouble.

A. until

B. since

C. so that

D. in order

69. The oil for burning to produce _____ includes fuel oil, diesel oil and so on.

A. momentum

B. power

C. heating

D. lighting

70. Only in this way, _____ solve the problem, I'm sure.

A. we can

B. can we

C. we are to

D. we will

71. _____ the main generator, we can stop the emergency generator now.

A. Repaired

B. Having repaired

C. Repairing

D. Being repaired

72. Of the following devices, _____ does not run on electricity.

A. A.C. generator

B. electrical motor

C. gyro-compass

D. radio transmitter

73. _____ device is provided to prevent starting air from being admitted into the cylinder before the reversing of the engine is completed.

A. An automatic

B. A transmission

C. An interlocking

D. A self-regulating

74. The purpose of limiting and decreasing the compression ratio of large-sized high-supercharging diesel engine is to _____.

A. limit the engine's mechanical load

B. limit the engine's thermal load

C. limit the maximum moment of torsion on the shaft

D. limit both mechanical and thermal load

75. There is trouble with the engine, but we finally managed _____.

A. to get started it

B. it to get started

C. to get it starting

D. getting starting it

76. The scavenging efficiency of the two-stroke diesel engine is decided by the amount of _____.

- A. exhaust gas discharged from the cylinder B. the fresh air coming into the cylinder
C. both exhaust gas and fresh air D. neither exhaust gas nor fresh air
77. Of the following, the outlet temperature of _____ indicates the thermal load of the diesel engine directly.
A. the cylinder cooling water B. the piston cooling liquid
C. each cylinder D. the exhaust turbine
78. Of the following measures, _____ should be adopted to prevent the low temperature corrosion when heavy oil is being used.
A. strengthening the cooling of the cylinder liner
B. strengthening the cooling of the pistons
C. maintaining proper total base number (TBN) of the cylinder oil
D. using pure mineral oil as the cylinder oil
79. The charged-air cooler is of water-cooling design with _____ circulating in it.
A. fuel oil B. sea water C. lube oil D. grease
80. The steel parts of the machine should be covered with grease or they will _____.
A. deform B. expand C. contract D. rust
81. Water must never be forced downwards while it is being heated, as this will invariably result in the formation of _____.
A. air leakage B. air charge C. air pockets D. air expansion
82. The cooling water temperature should be _____.
A. adjusted B. regulated C. rectified D. calculated
83. The center line of the generator to the _____ and the engine crankshaft should be checked and realigned.
A. motor B. flywheel C. piston D. cylinder
84. If the engine is to be out of operation for a long period in cold condition, remember to drain the _____ out of the system.
A. lube oil B. fuel oil C. water D. chemical additives
85. I remember _____ the purifier the day before yesterday. But it is out of order again.
A. to repair B. being repaired C. to be repaired D. repairing
86. _____ the four-stroke cycle, the engine requires a mechanism to open and close the inlet and exhaust valves.
A. To operating B. So as to operate C. In order to operate D. With operation
87. There are two basic systems in use, _____ employs a combination of mechanical and hydraulic operations.
A. each of which B. each of that C. one of that D. every of those
88. _____ is achieved by circulating a cooling liquid around internal passages within the engine.
A. Cool the engine B. The engine to be cooled
C. How to cool the engine D. Cooling the engine
89. The steering gear provides _____ of the rudder in response to a signal from the bridge.

- A. a movement B. the course C. the direction D. an angle
90. The _____ of a fuel is the heat energy released during combustion.
A. cetane number B. viscosity C. calorific value D. specific gravity
91. A series of aligned holes near the outside edge permits _____ of the dirty oil.
A. discharge B. circulation C. entry D. flow
92. This "operating" water causes the sliding bowl bottom to move downwards and open _____ in the bowl periphery.
A. discharge ports B. oil outlets C. oil inlets D. sealing water
93. The turbine speed is therefore reduced to _____ the propeller by use of a system of gearing.
A. which of B. more than C. in which D. that of
94. The corrosive plate is to be cut off and _____ by welding.
A. screwed up B. built up C. opened up D. tightened up
95. The ports are located at such a height that they are just exposed by the upper edge of the _____.
A. cylinder B. piston C. connecting rod D. crosshead
96. If you _____ careful enough, you _____ the accident yesterday.
A. were/could avoid B. had been/would avoid
C. were/would have avoided D. had been/could have avoided
97. Piston No. 1 of main engine has been removed, and it will be _____ this afternoon.
A. assembled B. reassembled C. dismantled D. withdrawn
98. When we select the fuel oil, we find there are many factors _____.
A. consider B. for considering C. to be considered D. considering
99. Only if more workers are sent to do the job, _____ on time.
A. can the repair be completed B. the repair can be completed
C. they can complete the repair D. thus the repair can be completed
100. _____ has much to do with the working condition of the equipment.
A. If there's good maintenance B. Whether there's good maintenance
C. The workers maintain it properly D. Is it maintained properly
101. The main _____ which determines the output of each cylinder is the cylinder bore.
A. reason B. factor C. cause D. trouble
102. _____ trouble during operation, the engine should, if possible, be shut down immediately.
A. In the event B. In the case of C. In the case D. In the event of
103. In the oil separator, the gravity discs are used mainly for the separation of _____.
A. only water B. liquids other than water
C. only solid D. water and some other impurities
104. These certificates will expire soon. You'd better go and extend their _____ before you leave here.
A. limit B. qualification C. usage D. validation
105. Lubricant can perform many duties in different occasions with its _____ function to reduce