



1  
00:00:15,030 --> 00:00:11,990  
esteemed comrade chairman of the

2  
00:00:18,950 --> 00:00:15,040  
examination board the prime crew of this

3  
00:00:21,429 --> 00:00:18,960  
is ma16 vehicle is ready for the final

4  
00:00:23,109 --> 00:00:21,439  
exams and first of all

5  
00:00:25,830 --> 00:00:23,119  
happy birthday

6  
00:00:27,990 --> 00:00:25,840  
mr chairman all the very best happy

7  
00:00:30,470 --> 00:00:28,000  
birthday our birthday greetings yes the

8  
00:00:34,069 --> 00:00:30,480  
best gift for me will be your excellent

9  
00:00:40,229 --> 00:00:34,079  
grades yes of course not less than five

10  
00:00:43,110 --> 00:00:41,830  
should we put our signatures on the

11  
00:00:49,510 --> 00:00:43,120  
envelopes

12  
00:00:56,310 --> 00:00:51,590  
you know our crew is your favorite

13  
00:01:00,950 --> 00:00:58,630

i'm sure that you will do

14

00:01:05,429 --> 00:01:00,960

great during your exams thank you so

15

00:01:10,950 --> 00:01:07,510

okay so half of the grade will be a

16

00:01:12,550 --> 00:01:10,960

bonus in honor of my birthday

17

00:01:15,030 --> 00:01:12,560

in honor of the

18

00:01:19,350 --> 00:01:15,040

chairman of the examination board

19

00:01:37,030 --> 00:01:21,670

i will keep the envelopes as a memento

20

00:01:41,429 --> 00:01:38,950

thank you so much of course we look like

21

00:01:42,149 --> 00:01:41,439

grasshoppers thank you so much

22

00:02:12,309 --> 00:01:42,159

and

23

00:02:12,319 --> 00:02:34,949

please

24

00:02:40,229 --> 00:02:37,430

because i will have to reconfigure the

25

00:02:54,229 --> 00:02:42,949

now i'm removing the plug and putting it

26  
00:02:59,750 --> 00:02:56,710  
emily nelson lead flight director of

27  
00:03:02,390 --> 00:02:59,760  
expedition 46

28  
00:03:04,710 --> 00:03:02,400  
emily by the time that you get on board

29  
00:03:06,550 --> 00:03:04,720  
as the flight director of expedition 46

30  
00:03:08,630 --> 00:03:06,560  
scott kelly and his russian crewmate

31  
00:03:11,030 --> 00:03:08,640  
mikhail kornienko will have been on

32  
00:03:13,589 --> 00:03:11,040  
board the space station for about eight

33  
00:03:15,830 --> 00:03:13,599  
months what are some of the key tasks

34  
00:03:18,550 --> 00:03:15,840  
and activities and research they expect

35  
00:03:21,110 --> 00:03:18,560  
to have done during that time

36  
00:03:23,030 --> 00:03:21,120  
a lot of 2015 is going to be devoted to

37  
00:03:25,030 --> 00:03:23,040  
reconfiguring the space station to make

38  
00:03:26,949 --> 00:03:25,040

way for the u.s crude vehicles that will

39

00:03:28,869 --> 00:03:26,959

be showing up in the next several years

40

00:03:30,470 --> 00:03:28,879

and to that end we're moving several

41

00:03:32,710 --> 00:03:30,480

pieces of the space station around we're

42

00:03:34,710 --> 00:03:32,720

going to take our pmm module and we're

43

00:03:36,630 --> 00:03:34,720

going to move that

44

00:03:38,149 --> 00:03:36,640

and we're going to move our pressurized

45

00:03:39,670 --> 00:03:38,159

mating adapter that's currently on our

46

00:03:41,990 --> 00:03:39,680

node 3 module and we're going to move

47

00:03:43,270 --> 00:03:42,000

that over to node 2. so at the end of

48

00:03:45,589 --> 00:03:43,280

all this moving things around we're

49

00:03:47,670 --> 00:03:45,599

going to have two docking ports that's

50

00:03:49,509 --> 00:03:47,680

how we refer to it when a accrued

51  
00:03:51,030 --> 00:03:49,519  
vehicle shows up and attaches to the

52  
00:03:52,949 --> 00:03:51,040  
space station on the front of the space

53  
00:03:54,630 --> 00:03:52,959  
station and then we'll have two berthing

54  
00:03:56,710 --> 00:03:54,640  
ports that's the term we use for cargo

55  
00:03:59,190 --> 00:03:56,720  
vehicles on the bottom of the space

56  
00:04:00,630 --> 00:03:59,200  
station so he'll be involved and the

57  
00:04:02,149 --> 00:04:00,640  
whole crew over the course of the next

58  
00:04:04,470 --> 00:04:02,159  
year will be involved in all of those

59  
00:04:06,070 --> 00:04:04,480  
relocations and the wiring and the

60  
00:04:07,990 --> 00:04:06,080  
laying cables for all of those different

61  
00:04:10,789 --> 00:04:08,000  
docking ports

62  
00:04:12,229 --> 00:04:10,799  
then we also have the bigelow expandable

63  
00:04:14,390 --> 00:04:12,239

module the beam that's going to be

64

00:04:16,710 --> 00:04:14,400

coming on a spacex mission that will get

65

00:04:18,469 --> 00:04:16,720

installed inflated and then checked out

66

00:04:20,390 --> 00:04:18,479

periodically

67

00:04:22,550 --> 00:04:20,400

can you talk specifically about some of

68

00:04:24,469 --> 00:04:22,560

the roles that scott kelly will be doing

69

00:04:26,150 --> 00:04:24,479

during his time on board and

70

00:04:28,070 --> 00:04:26,160

transitioning from the role of flight

71

00:04:31,510 --> 00:04:28,080

engineer eventually to commander and how

72

00:04:35,110 --> 00:04:32,790

in terms of

73

00:04:36,469 --> 00:04:35,120

how scott's work is going to change over

74

00:04:38,070 --> 00:04:36,479

the course of the year

75

00:04:39,590 --> 00:04:38,080

he'll start out as a flight engineer

76

00:04:41,670 --> 00:04:39,600

which is how each of our commanders

77

00:04:43,590 --> 00:04:41,680

starts out and it's kind of part of our

78

00:04:45,670 --> 00:04:43,600

handover process so that they have a

79

00:04:47,670 --> 00:04:45,680

chance to get acclimated get used to the

80

00:04:49,670 --> 00:04:47,680

work and then

81

00:04:51,189 --> 00:04:49,680

over the course of time we'll see a

82

00:04:52,790 --> 00:04:51,199

number of commanders and he'll

83

00:04:55,670 --> 00:04:52,800

ultimately become commander before he

84

00:04:57,350 --> 00:04:55,680

leaves so that he then is responsible

85

00:04:59,350 --> 00:04:57,360

for the cruise response and emergency

86

00:05:01,990 --> 00:04:59,360

scenarios generally keeping the crew

87

00:05:03,990 --> 00:05:02,000

together in their day-to-day work and

88

00:05:06,310 --> 00:05:04,000

overseeing any kind of

89

00:05:08,710 --> 00:05:06,320

not really issues but any questions that

90

00:05:10,310 --> 00:05:08,720

the crew needs to work together he'll be

91

00:05:11,830 --> 00:05:10,320

pulling the team together and and

92

00:05:14,790 --> 00:05:11,840

working with us on the ground to make

93

00:05:17,110 --> 00:05:14,800

sure that both teams are in sync

94

00:05:18,550 --> 00:05:17,120

uh you had mentioned that part of the

95

00:05:19,830 --> 00:05:18,560

work that scott and his crew will be

96

00:05:21,350 --> 00:05:19,840

doing on board is preparing the

97

00:05:23,510 --> 00:05:21,360

international space station for the

98

00:05:25,990 --> 00:05:23,520

arrival of the international docking

99

00:05:27,670 --> 00:05:26,000

adapters um can you talk about any space

100

00:05:29,110 --> 00:05:27,680

walks that are planned and scott's role

101  
00:05:30,870 --> 00:05:29,120  
in those

102  
00:05:32,550 --> 00:05:30,880  
absolutely we'll have a series of

103  
00:05:34,870 --> 00:05:32,560  
spacewalks

104  
00:05:36,830 --> 00:05:34,880  
associated with each docking adapter the

105  
00:05:39,189 --> 00:05:36,840  
docking adapters will arrive on spacex

106  
00:05:40,790 --> 00:05:39,199  
vehicles we're working now to determine

107  
00:05:42,870 --> 00:05:40,800  
whether we have to install them while

108  
00:05:44,870 --> 00:05:42,880  
spacex is docked which is a bit of a

109  
00:05:46,870 --> 00:05:44,880  
challenge time wise because spacex

110  
00:05:48,790 --> 00:05:46,880  
brings so many things to us in terms of

111  
00:05:51,110 --> 00:05:48,800  
research and cargo

112  
00:05:52,629 --> 00:05:51,120  
our hope is we'll be able to relocate

113  
00:05:54,550 --> 00:05:52,639

those docking adapters so that we can

114

00:05:56,710 --> 00:05:54,560

take our time with those space walks

115

00:05:58,550 --> 00:05:56,720

scott of course will be key to the the

116

00:06:00,950 --> 00:05:58,560

spacewalk operations themselves in terms

117

00:06:03,909 --> 00:06:00,960

of installing at least one of those

118

00:06:06,629 --> 00:06:03,919

docking adapters this summer

119

00:06:08,629 --> 00:06:06,639

behind you in a simulator of the soyuz

120

00:06:11,029 --> 00:06:08,639

vehicle right now

121

00:06:13,110 --> 00:06:11,039

scott kelly soyuz commander gennady

122

00:06:15,350 --> 00:06:13,120

padalka and flight engineer mikhail

123

00:06:17,990 --> 00:06:15,360

kornienko are undergoing their final

124

00:06:19,510 --> 00:06:18,000

exams in preparation for their flight

125

00:06:21,510 --> 00:06:19,520

how do you perceive their level of

126

00:06:23,990 --> 00:06:21,520

readiness at this point and what kind of

127

00:06:25,430 --> 00:06:24,000

things what kind of challenges are there

128

00:06:27,590 --> 00:06:25,440

are they possibly going to be facing

129

00:06:30,150 --> 00:06:27,600

during their final exams

130

00:06:32,230 --> 00:06:30,160

this is an incredibly talented crew and

131

00:06:34,629 --> 00:06:32,240

a really pretty senior one gennady of

132

00:06:37,189 --> 00:06:34,639

course is the let's see i think at this

133

00:06:39,830 --> 00:06:37,199

point has the third most hours of any

134

00:06:41,749 --> 00:06:39,840

person in space so

135

00:06:43,749 --> 00:06:41,759

they're in very good hands with gennady

136

00:06:47,110 --> 00:06:43,759

as their soyuz commander

137

00:06:49,909 --> 00:06:47,120

today's stem promises to be challenging

138

00:06:51,510 --> 00:06:49,919

i think ultimately it'll be a good

139

00:06:53,270 --> 00:06:51,520

it will have been a good workout for

140

00:06:55,029 --> 00:06:53,280

them in terms of they'll finish the day

141

00:06:57,749 --> 00:06:55,039

feeling accomplished you don't want too

142

00:06:59,589 --> 00:06:57,759

easy of a test because then it doesn't

143

00:07:01,029 --> 00:06:59,599

feel as good for these guys so i think

144

00:07:02,790 --> 00:07:01,039

today will be just challenging enough

145

00:07:04,390 --> 00:07:02,800

for them to to feel good at the end of

146

00:07:06,790 --> 00:07:04,400

the day but they're more than capable of

147

00:07:08,550 --> 00:07:06,800

handling what's coming at them today

148

00:07:10,870 --> 00:07:08,560

and lastly as we

149

00:07:13,350 --> 00:07:10,880

next year prepare for the return home of

150

00:07:14,469 --> 00:07:13,360

mikhail kornienko and scott kelly what

151  
00:07:17,189 --> 00:07:14,479  
kind of

152  
00:07:19,270 --> 00:07:17,199  
final preparations during expedition 46

153  
00:07:21,270 --> 00:07:19,280  
will be will the crew be making and the

154  
00:07:23,990 --> 00:07:21,280  
flight control team be making in

155  
00:07:25,830 --> 00:07:24,000  
preparation for his return home and the

156  
00:07:27,350 --> 00:07:25,840  
testing of the one-year crew mission

157  
00:07:30,710 --> 00:07:27,360  
ultimately

158  
00:07:32,710 --> 00:07:30,720  
you know we always have

159  
00:07:35,350 --> 00:07:32,720  
a challenge at the end of any cruise

160  
00:07:36,790 --> 00:07:35,360  
time on board

161  
00:07:38,070 --> 00:07:36,800  
fitting in all of the science that they

162  
00:07:40,710 --> 00:07:38,080  
need to do before they come home

163  
00:07:43,510 --> 00:07:40,720

especially the the human factors and the

164

00:07:46,070 --> 00:07:43,520

medical science that we do on board

165

00:07:48,309 --> 00:07:46,080

whether it's taking samples or

166

00:07:49,670 --> 00:07:48,319

or doing last-minute tests and managing

167

00:07:50,629 --> 00:07:49,680

to get all of that scheduled before

168

00:07:52,230 --> 00:07:50,639

return

169

00:07:53,430 --> 00:07:52,240

an additional challenge for these guys

170

00:07:55,189 --> 00:07:53,440

is going to be that they're basically

171

00:07:58,629 --> 00:07:55,199

living in their office for an entire

172

00:08:00,309 --> 00:07:58,639

year and so keeping morale up they're

173

00:08:01,990 --> 00:08:00,319

consummate professionals they're going

174

00:08:04,070 --> 00:08:02,000

to do their job well from beginning to

175

00:08:06,070 --> 00:08:04,080

end but just making it

176

00:08:08,869 --> 00:08:06,080

a good environment to both live and work

177

00:08:10,390 --> 00:08:08,879

in for the entirety of a year

178

00:08:12,070 --> 00:08:10,400

those last four months that's going to

179

00:08:14,390 --> 00:08:12,080

be one of our challenges is making sure

180

00:08:16,790 --> 00:08:14,400

that we keep it

181

00:08:18,629 --> 00:08:16,800

upbeat and

182

00:08:20,550 --> 00:08:18,639

and fun really i mean you want to have

183

00:08:21,830 --> 00:08:20,560

fun while you're working and so we want