



1
00:00:15,200 --> 00:00:18,230
so please say something

2
00:00:23,910 --> 00:00:21,510
the expedition 38 and 39 prime crew

3
00:00:25,109 --> 00:00:23,920
is ready for final qualification exams

4
00:00:36,310 --> 00:00:25,119
on the russian segment of the

5
00:00:39,350 --> 00:00:38,470
do you have pens here yes here are the

6
00:00:47,110 --> 00:00:39,360
pens

7
00:00:53,270 --> 00:00:48,069
you should have put something in

8
00:00:56,790 --> 00:00:55,110
please sign it

9
00:00:58,950 --> 00:00:56,800
you see you would have gotten one point

10
00:01:05,910 --> 00:00:58,960
for that

11
00:01:05,920 --> 00:01:09,870
thank you

12
00:01:14,870 --> 00:01:12,950
video for nasa tv you have reached the

13
00:01:16,950 --> 00:01:14,880

final home stretch of your preparations

14

00:01:19,350 --> 00:01:16,960

and training for flight how significant

15

00:01:22,469 --> 00:01:19,360

are these final qualifications

16

00:01:23,749 --> 00:01:22,479

and what is your level of excitement

17

00:01:25,109 --> 00:01:23,759

well of course as we get closer and

18

00:01:26,789 --> 00:01:25,119

closer to launch i get more and more

19

00:01:28,870 --> 00:01:26,799

excited and i think we're more than

20

00:01:30,870 --> 00:01:28,880

ready to go these last few exams are a

21

00:02:06,230 --> 00:01:30,880

great way just to finish polishing all

22

00:02:06,240 --> 00:02:14,390

my

23

00:02:20,150 --> 00:02:17,190

what about the olympic torch

24

00:02:23,910 --> 00:02:20,160

how did you prepare for that

25

00:02:27,990 --> 00:02:25,350

well we did not

26

00:02:30,710 --> 00:02:28,000

prepare uh in any special way we did not

27

00:02:32,790 --> 00:02:30,720

put any special effort into this in

28

00:02:35,030 --> 00:02:32,800

terms of the method or procedure of how

29

00:02:37,430 --> 00:02:35,040

to perform those actions we prepared

30

00:02:39,670 --> 00:02:37,440

psychologically though because not only

31

00:02:41,830 --> 00:02:39,680

it is important to do the action but it

32

00:02:46,390 --> 00:02:41,840

is a symbol and you have to feel

33

00:02:50,869 --> 00:02:48,150

no it's not difficult it's very

34

00:02:53,990 --> 00:02:50,879

interesting

35

00:02:55,910 --> 00:02:54,000

it's a constant cultural exchange and

36

00:02:57,430 --> 00:02:55,920

mutual enrichment that we are going

37

00:03:01,509 --> 00:02:57,440

through

38

00:03:08,470 --> 00:03:03,110

well that's a very broad question will

39

00:03:13,509 --> 00:03:10,790

beside the olympic torch are you going

40

00:03:15,190 --> 00:03:13,519

to do anything interesting

41

00:03:17,030 --> 00:03:15,200

well

42

00:03:18,470 --> 00:03:17,040

how shall i put it

43

00:03:21,190 --> 00:03:18,480

i don't want to say anything negative at

44

00:03:25,750 --> 00:03:23,750

it's actually the olympic torch

45

00:03:31,110 --> 00:03:25,760

beside everything else not everything

46

00:03:35,030 --> 00:03:32,630

four years since torch been up to the

47

00:03:36,229 --> 00:03:35,040

international space station

48

00:03:38,550 --> 00:03:36,239

how much are you looking forward to

49

00:03:39,830 --> 00:03:38,560

getting back up to your open space

50

00:03:42,550 --> 00:03:39,840

well this time it's going to be a little

51
00:03:44,390 --> 00:03:42,560
longer duration of stay compared to my

52
00:03:46,949 --> 00:03:44,400
previous flight and then there are new

53
00:03:49,430 --> 00:03:46,959
modules already here and then

54
00:03:51,270 --> 00:03:49,440
especially cupola i'm very much looking

55
00:03:52,229 --> 00:03:51,280
forward to looking at the beautiful home

56
00:03:54,070 --> 00:03:52,239
planet

57
00:03:56,149 --> 00:03:54,080
through the window so there are new

58
00:04:26,390 --> 00:03:56,159
things i've never seen before so i'm

59
00:04:26,400 --> 00:04:37,270
foreign

60
00:04:41,510 --> 00:04:39,030
what about the backup crew

61
00:04:43,510 --> 00:04:41,520
are they ready yes hundred percent

62
00:04:47,510 --> 00:04:43,520
we are 100 interchangeable they can

63
00:04:51,510 --> 00:04:49,909

how are the crews selected

64

00:04:53,430 --> 00:04:51,520

well there is a special procedure for

65

00:04:55,110 --> 00:04:53,440

that and it's been working it's a very

66

00:04:57,270 --> 00:04:55,120

complex procedure

67

00:05:00,070 --> 00:04:57,280

i don't think i should be

68

00:05:01,430 --> 00:05:00,080

doing it right now

69

00:05:06,950 --> 00:05:01,440

it's something that's been going on for

70

00:05:33,670 --> 00:05:08,710

thank you thank you thank you for great

71

00:05:38,710 --> 00:05:35,990

we are very interested in the olympic

72

00:05:41,029 --> 00:05:38,720

torch and where did the idea to take it

73

00:05:43,270 --> 00:05:41,039

to orbit come from

74

00:05:46,710 --> 00:05:43,280

well this has been a decision

75

00:05:47,909 --> 00:05:46,720

by the olympic committee

76

00:05:50,550 --> 00:05:47,919

there is

77

00:05:52,950 --> 00:05:50,560

a special committee that deals with the

78

00:05:54,629 --> 00:05:52,960

scenario of their

79

00:05:57,029 --> 00:05:54,639

olympic

80

00:06:00,390 --> 00:05:57,039

relay

81

00:06:07,749 --> 00:06:00,400

and we've been approached with that idea

82

00:06:11,990 --> 00:06:10,150

just to be sure that you understand

83

00:06:14,710 --> 00:06:12,000

please understand there will be no open

84

00:06:16,550 --> 00:06:14,720

fire either on the station or in outer

85

00:06:18,870 --> 00:06:16,560

space

86

00:06:21,029 --> 00:06:18,880

what about the backup crew

87

00:06:22,790 --> 00:06:21,039

well

88

00:06:25,430 --> 00:06:22,800

our crew member already answered your

89

00:06:28,150 --> 00:06:25,440

question they are 100 interchangeable

90

00:06:30,390 --> 00:06:28,160

and they can step in anytime

91

00:06:33,350 --> 00:06:30,400

the selection of crew

92

00:06:34,469 --> 00:06:33,360

is done based on the readiness of crew

93

00:06:36,629 --> 00:06:34,479

members

94

00:06:37,670 --> 00:06:36,639

some people have already

95

00:06:39,270 --> 00:06:37,680

been

96

00:06:41,029 --> 00:06:39,280

very well prepared

97

00:06:45,189 --> 00:06:41,039

they have already been to the station

98

00:06:50,710 --> 00:06:48,150

they are selected based on how well

99

00:06:56,070 --> 00:06:54,390

so when this current crew was formed

100

00:06:58,710 --> 00:06:56,080

they were formed together with the

101
00:07:01,909 --> 00:06:58,720
backup crew and we kind of hope that

102
00:07:03,510 --> 00:07:01,919
they will fly on time but just in case

103
00:07:06,150 --> 00:07:03,520
something happens the backup crew can

104
00:07:11,510 --> 00:07:08,070
basically until the very last moment

105
00:07:12,870 --> 00:07:11,520
when the crew don their spacesuits

106
00:07:29,430 --> 00:07:12,880
get on the bus

107
00:07:29,440 --> 00:07:33,110
the final exam

108
00:07:38,230 --> 00:07:35,510
crew training on the russian segment of

109
00:07:39,430 --> 00:07:38,240
the international space station

110
00:07:41,909 --> 00:07:39,440
we are

111
00:07:48,150 --> 00:07:41,919
working on procedures with

112
00:07:53,670 --> 00:07:49,430
making sure the crew knows how to

113
00:07:55,670 --> 00:07:53,680

respond to of nominal situations

114

00:08:05,510 --> 00:07:55,680

is it the first time that a japanese

115

00:08:11,430 --> 00:08:08,629

more than 20 years ago when vladimir

116

00:08:13,670 --> 00:08:11,440

titov and mice and i came to the united

117

00:08:15,430 --> 00:08:13,680

states to prepare

118

00:08:17,909 --> 00:08:15,440

to our shuttle flight

119

00:08:20,390 --> 00:08:17,919

and at that time koichi was one of the

120

00:08:21,909 --> 00:08:20,400

international astronauts selected

121

00:08:23,990 --> 00:08:21,919

so we've been

122

00:08:26,070 --> 00:08:24,000

friends for a long time it's not his

123

00:08:28,309 --> 00:08:26,080

first mission and i'm sure he's a

124

00:08:33,430 --> 00:08:28,319

professional astronaut that will tackle

125

00:08:38,630 --> 00:08:36,149

this is not a

126
00:08:41,670 --> 00:08:38,640
very common flight because the crew will

127
00:08:44,790 --> 00:08:41,680
be on board the station

128
00:08:49,509 --> 00:08:46,630
well uh it's not the first time it's

129
00:08:53,750 --> 00:08:49,519
going on it's a direct rotation as we

130
00:08:57,430 --> 00:08:55,910
once we've started having six crew

131
00:08:58,550 --> 00:08:57,440
members on board

132
00:09:00,710 --> 00:08:58,560
the

133
00:09:03,350 --> 00:09:00,720
most important part of rotation is

134
00:09:05,110 --> 00:09:03,360
called indirect rotation it's that the

135
00:09:06,310 --> 00:09:05,120
new crew arrives

136
00:09:07,110 --> 00:09:06,320
and

137
00:09:08,389 --> 00:09:07,120
then

138
00:09:09,750 --> 00:09:08,399

sometime after

139

00:09:13,430 --> 00:09:09,760

the

140

00:09:15,110 --> 00:09:13,440

before leaves

141

00:09:17,590 --> 00:09:15,120

we are trying to make sure that not too

142

00:09:20,710 --> 00:09:17,600

many people remain on board at any given

143

00:09:23,430 --> 00:09:20,720

point of time because of the olympic

144

00:09:25,590 --> 00:09:23,440

torch we

145

00:09:27,670 --> 00:09:25,600

had to change the timeline for crew

146

00:09:28,949 --> 00:09:27,680

departure this time it will be a direct

147

00:09:31,750 --> 00:09:28,959

rotation

148

00:09:34,070 --> 00:09:31,760

and for some time we will have nine

149

00:09:35,990 --> 00:09:34,080

people on aboard the station

150

00:09:38,389 --> 00:09:36,000

but please understand this is not

151
00:09:40,550 --> 00:09:38,399
uncommon we had that before and we

152
00:09:41,990 --> 00:09:40,560
actually had more people um

153
00:09:44,230 --> 00:09:42,000
on the station

154
00:09:47,350 --> 00:09:44,240
or when shuttles were flying

155
00:09:49,350 --> 00:09:47,360
we had situations where we had six crew

156
00:09:52,150 --> 00:09:49,360
members for the station and plus the

157
00:09:57,350 --> 00:09:53,990
so this is

158
00:10:03,110 --> 00:09:57,360
just for rotation of uh soyuz vehicles

159
00:10:07,910 --> 00:10:06,069
and what will that torch be like

160
00:10:09,750 --> 00:10:07,920
well it will be

161
00:10:11,829 --> 00:10:09,760
a very similar

162
00:10:13,829 --> 00:10:11,839
torch tool

163
00:10:16,069 --> 00:10:13,839

what you have on the ground

164

00:10:17,829 --> 00:10:16,079

you know that there's been many olympic

165

00:10:19,670 --> 00:10:17,839

torches manufactured

166

00:10:21,990 --> 00:10:19,680

this specific torch

167

00:10:24,150 --> 00:10:22,000

will be exact same as the one on the

168

00:10:26,310 --> 00:10:24,160

ground but it will not contain any fire

169

00:10:28,470 --> 00:10:26,320

any flame

170

00:10:29,829 --> 00:10:28,480

so most probably this

171

00:10:32,470 --> 00:10:29,839

torch will

172

00:10:33,829 --> 00:10:32,480

be used on during that relay on the

173

00:10:36,230 --> 00:10:33,839

ground

174

00:10:38,310 --> 00:10:36,240

but right now it is planned to del we

175

00:10:41,430 --> 00:10:38,320

are planning to deliver it

176

00:10:43,910 --> 00:10:41,440

to the station and then send it back

177

00:10:46,230 --> 00:10:43,920

like mikhail turin told you before we

178

00:10:49,350 --> 00:10:46,240

did not have to prepare in any special

179

00:10:51,350 --> 00:10:49,360

way for that but once we saw the mock-up

180

00:10:55,829 --> 00:10:51,360

of that

181

00:10:57,750 --> 00:10:55,839

torch we worked a lot with that we

182

00:10:59,829 --> 00:10:57,760

kind of had to

183

00:11:01,910 --> 00:10:59,839

outfit the torch itself

184

00:11:04,630 --> 00:11:01,920

in order to secure it for

185

00:11:05,910 --> 00:11:04,640

space use we had to

186

00:11:08,790 --> 00:11:05,920

put

187

00:11:10,150 --> 00:11:08,800

a fixture to so that we could secure it

188

00:11:12,150 --> 00:11:10,160

in space

189

00:11:15,269 --> 00:11:12,160

will there be any imitation of the open

190

00:11:17,910 --> 00:11:15,279

fire well what's the use for that

191

00:11:21,350 --> 00:11:17,920

you know there cannot be any open fire

192

00:11:22,230 --> 00:11:21,360

in space why should we deceive people

193

00:11:25,750 --> 00:11:22,240

the

194

00:11:30,870 --> 00:11:25,760

fire that had been lit in greece

195

00:11:36,870 --> 00:11:32,870

but we are not planning any open fire in

196

00:11:42,150 --> 00:11:38,150

the um

197

00:11:43,110 --> 00:11:42,160

torch is pretty light

198

00:11:44,870 --> 00:11:43,120

did not

199

00:11:48,069 --> 00:11:44,880

have to be modified

200

00:11:50,470 --> 00:11:48,079

for space flight in any special way

201
00:12:02,389 --> 00:11:50,480
the only thing what i meant is what i

202
00:12:07,509 --> 00:12:04,870
and what is that safety fixture that you

203
00:12:13,670 --> 00:12:07,519
installed well this is a ring a safety

204
00:12:18,470 --> 00:12:16,470
because it is kind of hard to

205
00:12:19,670 --> 00:12:18,480
hold

206
00:12:22,150 --> 00:12:19,680
the torch

207
00:12:24,550 --> 00:12:22,160
in the spacesuit glove

208
00:12:26,470 --> 00:12:24,560
so that's why everything has those rings

209
00:12:29,110 --> 00:12:26,480
the safety rings

210
00:12:30,310 --> 00:12:29,120
just in case uh the groupers the crew

211
00:12:34,790 --> 00:12:30,320
member

212
00:12:36,550 --> 00:12:34,800
drops the torch because sometimes they

213
00:12:38,069 --> 00:12:36,560

will need to

214

00:12:41,430 --> 00:12:38,079

uh

215

00:12:43,110 --> 00:12:41,440

to hold on to the safety railings and

216

00:12:45,269 --> 00:12:43,120

not hold on to the

217

00:12:47,590 --> 00:12:45,279

torch itself in this case the torch must

218

00:12:49,590 --> 00:12:47,600

be secured and tethered

219

00:12:52,389 --> 00:12:49,600

it can be either tethered to the

220

00:12:56,310 --> 00:12:52,399

spacesuit or to the rails

221

00:12:59,670 --> 00:12:56,320

that are installed on the station hull

222

00:13:02,310 --> 00:12:59,680

this will depend on the procedure

223

00:13:04,790 --> 00:13:02,320

i hope it will be a beautiful

224

00:13:07,670 --> 00:13:04,800

ceremony

225

00:13:09,590 --> 00:13:07,680

i don't know the exact timeline

226
00:13:12,949 --> 00:13:09,600
the olympic committee has been working

227
00:13:17,750 --> 00:13:15,269
the meaning of this ceremony is that the

228
00:13:19,110 --> 00:13:17,760
crew delivers the torch on board the

229
00:13:19,990 --> 00:13:19,120
station

230
00:13:21,350 --> 00:13:20,000
and

231
00:13:24,150 --> 00:13:21,360
the crew that

232
00:13:25,350 --> 00:13:24,160
are already on board will uh be doing

233
00:13:27,590 --> 00:13:25,360
the eva

234
00:13:30,790 --> 00:13:27,600
a space walk with

235
00:13:33,350 --> 00:13:30,800
the torch and uh

236
00:13:34,629 --> 00:13:33,360
so that torch will be flying around the

237
00:13:36,949 --> 00:13:34,639
earth while

238
00:13:38,310 --> 00:13:36,959

in outer space and then further your

239

00:13:41,350 --> 00:13:38,320

chicken

240

00:13:43,189 --> 00:13:41,360

will be flying back on the 11th

241

00:13:45,829 --> 00:13:43,199

and on the 11th the torch will be

242

00:13:47,990 --> 00:13:45,839

brought back to the ground

243

00:13:51,430 --> 00:13:48,000

after it had orbited the station for

244

00:13:54,949 --> 00:13:53,350

i think that it will be a separate

245

00:13:56,710 --> 00:13:54,959

scenario for the flight

246

00:14:00,230 --> 00:13:56,720

and uh

247

00:14:02,150 --> 00:14:00,240

most probably the torch will be

248

00:14:03,750 --> 00:14:02,160

handled inside the station as well and

249

00:14:06,150 --> 00:14:03,760

there probably will be a handover

250

00:14:26,870 --> 00:14:06,160

ceremony from one crew to the next but

251
00:14:29,350 --> 00:14:27,750
the

252
00:14:30,710 --> 00:14:29,360
crew of

253
00:14:32,069 --> 00:14:30,720
iss

254
00:14:35,269 --> 00:14:32,079
38

255
00:14:36,230 --> 00:14:35,279
and 39 expedition is ready for

256
00:14:37,590 --> 00:14:36,240
the

257
00:15:15,269 --> 00:14:37,600
certification

258
00:15:15,279 --> 00:15:38,949
just a second

259
00:15:43,670 --> 00:15:41,430
uh for nasa foreign for both rick and

260
00:15:45,430 --> 00:15:43,680
kuichi you're both veterans of multiple

261
00:15:47,509 --> 00:15:45,440
space flight and space shuttle missions

262
00:15:49,189 --> 00:15:47,519
to the international space station

263
00:15:50,710 --> 00:15:49,199

how are you looking forward to flying up

264

00:15:51,829 --> 00:15:50,720

to the space station on the soyuz

265

00:15:53,110 --> 00:15:51,839

vehicle and what are some of the

266

00:15:55,749 --> 00:15:53,120

differences in training and the

267

00:15:57,110 --> 00:15:55,759

challenges for you both

268

00:15:58,629 --> 00:15:57,120

i guess i could take a shot at that uh

269

00:16:00,550 --> 00:15:58,639

yeah i've flown on the space shuttle

270

00:16:01,430 --> 00:16:00,560

several times of course it was a great

271

00:16:02,870 --> 00:16:01,440

vehicle

272

00:16:04,470 --> 00:16:02,880

but it's interesting to have the

273

00:16:06,629 --> 00:16:04,480

opportunity to fly on a different

274

00:16:07,990 --> 00:16:06,639

vehicle i've really enjoyed the training

275

00:16:10,710 --> 00:16:08,000

here in star city and i'm looking

276

00:16:13,350 --> 00:16:10,720

forward to a great mission

277

00:16:15,189 --> 00:16:13,360

yeah yeah echo rick flew on the shuttle

278

00:16:17,670 --> 00:16:15,199

uh up and down before but this is my

279

00:16:19,430 --> 00:16:17,680

first time to actually launch and land

280

00:16:21,509 --> 00:16:19,440

on the soyuz spacecraft so it's a new

281

00:16:24,949 --> 00:16:21,519

challenge for me and i very much i look

282

00:16:26,470 --> 00:16:24,959

forward to this new experience

283

00:16:29,509 --> 00:16:26,480

this question could be

284

00:16:33,030 --> 00:16:29,519

addressed to me also because i also took

285

00:16:34,790 --> 00:16:33,040

part in flight instead of shuttle flight

286

00:16:37,670 --> 00:16:34,800

thank you and for you miguel this will

287

00:16:39,509 --> 00:16:37,680

be the first single day uh run it into

288

00:16:40,870 --> 00:16:39,519

the space station so what what are you

289

00:16:43,269 --> 00:16:40,880

looking forward to in terms of the

290

00:16:45,829 --> 00:16:43,279

differences um from just the two-day

291

00:16:48,470 --> 00:16:45,839

rendezvous versus the one-day run

292

00:16:50,230 --> 00:16:48,480

i don't think there is a big difference

293

00:16:51,910 --> 00:16:50,240

in comparison

294

00:16:54,629 --> 00:16:51,920

but as

295

00:16:58,150 --> 00:16:54,639

everything new it is exciting

296

00:17:02,790 --> 00:17:01,269

mikhail it's your second day of training

297

00:17:05,429 --> 00:17:02,800

how can you

298

00:17:06,549 --> 00:17:05,439

evaluate the first day of your eval

299

00:17:07,350 --> 00:17:06,559

training

300

00:17:08,230 --> 00:17:07,360

was

301

00:17:10,470 --> 00:17:08,240

it

302

00:17:12,390 --> 00:17:10,480

difficult on the russian segment or is

303

00:17:15,189 --> 00:17:12,400

it going to be more difficult today i

304

00:17:16,630 --> 00:17:15,199

wouldn't be comparing those days each

305

00:17:20,309 --> 00:17:16,640

one of them

306

00:17:22,150 --> 00:17:20,319

is dedicated to an important part

307

00:17:24,949 --> 00:17:22,160

of the program

308

00:17:26,069 --> 00:17:24,959

so both days are equally hard and

309

00:17:28,390 --> 00:17:26,079

equally

310

00:17:29,990 --> 00:17:28,400

uh challenging

311

00:17:33,430 --> 00:17:30,000

yes i'm very happy with the work we've

312

00:17:36,630 --> 00:17:35,350

we are very happy with the interaction

313

00:17:38,710 --> 00:17:36,640

of the crew

314

00:17:40,390 --> 00:17:38,720

and also with the flight control team on

315

00:17:42,950 --> 00:17:40,400

the ground we

316

00:17:45,029 --> 00:17:42,960

uh realized that we do understand each

317

00:18:06,549 --> 00:17:45,039

other very well and we are backing each

318

00:18:06,559 --> 00:18:23,510

thank you thank you very much

319

00:18:23,520 --> 00:18:38,789

williams

320

00:18:50,150 --> 00:18:40,710

and just a little over a year ago you

321

00:18:54,150 --> 00:18:52,630

sure this is a very important stage of

322

00:18:56,710 --> 00:18:54,160

the training

323

00:18:59,510 --> 00:18:56,720

what they're going through is the whole

324

00:19:01,750 --> 00:18:59,520

launch day rendezvous day and then

325

00:19:03,430 --> 00:19:01,760

undocking and landing day it's going to

326

00:19:05,830 --> 00:19:03,440

take eight hours

327

00:19:07,669 --> 00:19:05,840

which in real life would take of course

328

00:19:09,430 --> 00:19:07,679

six hours to get to the station and then

329

00:19:11,750 --> 00:19:09,440

after undocking another four hours to

330

00:19:14,150 --> 00:19:11,760

get back to the earth so it's a slightly

331

00:19:16,150 --> 00:19:14,160

compressed but it is really a summary of

332

00:19:18,549 --> 00:19:16,160

all the critical dynamic operations that

333

00:19:19,990 --> 00:19:18,559

the soyuz will perform going up to the

334

00:19:20,950 --> 00:19:20,000

station and then coming back home to

335

00:19:29,510 --> 00:19:20,960

earth

336

00:19:34,070 --> 00:19:31,750

actually it's pretty darn close you know

337

00:19:36,150 --> 00:19:34,080

we do training like this and training in

338

00:19:38,390 --> 00:19:36,160

a hydra lab or the neutral buoyancy lab

339

00:19:40,310 --> 00:19:38,400

for spacewalks we do robotic training

340

00:19:42,310 --> 00:19:40,320

on a computer and all of those elements

341

00:19:45,110 --> 00:19:42,320

of training are very realistic and

342

00:19:46,230 --> 00:19:45,120

really get you ready so that you're

343

00:19:47,669 --> 00:19:46,240

feeling when you're going through this

344

00:19:49,190 --> 00:19:47,679

critical operations like you've done

345

00:19:50,630 --> 00:19:49,200

this before and you're not necessarily

346

00:19:52,870 --> 00:19:50,640

nervous like oh i've never seen this

347

00:19:54,310 --> 00:19:52,880

before so it's really good and this is

348

00:19:55,990 --> 00:19:54,320

great training that these guys are going

349

00:19:57,110 --> 00:19:56,000

through right now and you know my

350

00:19:59,510 --> 00:19:57,120

comment to them as they were getting

351
00:20:00,950 --> 00:19:59,520
ready was have fun because if they can

352
00:20:02,149 --> 00:20:00,960
start to imagine what it's really going

353
00:20:13,029 --> 00:20:02,159
to be like when you're riding on a

354
00:20:19,110 --> 00:20:14,950
shaking your hand

355
00:20:23,750 --> 00:20:21,830
dear chairman of the committee

356
00:20:24,789 --> 00:20:23,760
the backup crew is ready to take the

357
00:20:26,070 --> 00:20:24,799
test

358
00:20:45,830 --> 00:20:26,080
yes

359
00:20:45,840 --> 00:21:13,830
yeah the pen is working

360
00:21:40,070 --> 00:21:17,190
max can you smile give us a smile

361
00:21:40,080 --> 00:21:43,990
is

362
00:22:10,149 --> 00:21:45,270
i guess we can leave now because the

363
00:22:10,159 --> 00:22:31,430

exactly

364

00:23:25,750 --> 00:22:43,350

foreign

365

00:23:30,470 --> 00:23:28,470

for nasa tv for both rick and koichi

366

00:23:32,149 --> 00:23:30,480

you're both veterans of multiple space

367

00:23:34,390 --> 00:23:32,159

flight and space shuttle missions to the

368

00:23:35,909 --> 00:23:34,400

international space station how are you

369

00:23:37,669 --> 00:23:35,919

looking forward to flying up to the

370

00:23:38,950 --> 00:23:37,679

space station on the soyuz vehicle and

371

00:23:42,230 --> 00:23:38,960

what are some of the differences in

372

00:23:43,590 --> 00:23:42,240

training and the challenges for you both

373

00:23:45,110 --> 00:23:43,600

i guess i could take a shot at that uh

374

00:23:46,710 --> 00:23:45,120

yeah i've flown on the space shuttle

375

00:23:49,029 --> 00:23:46,720

several times of course it was in a

376

00:23:50,630 --> 00:23:49,039

great vehicle but it's interesting to

377

00:23:52,549 --> 00:23:50,640

have the opportunity to fly on a

378

00:23:54,310 --> 00:23:52,559

different vehicle i've really enjoyed

379

00:23:57,190 --> 00:23:54,320

the training here in star city and i'm

380

00:23:59,830 --> 00:23:57,200

looking forward to a great mission

381

00:24:01,669 --> 00:23:59,840

yeah yeah echo rick flew on the shuttle

382

00:24:04,149 --> 00:24:01,679

uh up and down before but this is my

383

00:24:05,909 --> 00:24:04,159

first time to actually launch and land

384

00:24:07,990 --> 00:24:05,919

on the soyuz spacecraft so it's a new

385

00:24:11,430 --> 00:24:08,000

challenge for me and i very much i look

386

00:24:12,950 --> 00:24:11,440

forward to this new experience

387

00:24:15,990 --> 00:24:12,960

this question could be

388

00:24:19,510 --> 00:24:16,000

addressed to me also because i also took

389

00:24:21,269 --> 00:24:19,520

part in flight instead of shuttle flight

390

00:24:23,909 --> 00:24:21,279

thank you and for you mikhail this will

391

00:24:25,830 --> 00:24:23,919

be the first single day

392

00:24:27,269 --> 00:24:25,840

into the space station so what what are

393

00:24:29,750 --> 00:24:27,279

you looking forward to

394

00:24:32,310 --> 00:24:29,760

the differences um from just the two day

395

00:24:34,950 --> 00:24:32,320

rendezvous versus the one-day run

396

00:24:36,710 --> 00:24:34,960

i don't think there is a big difference

397

00:24:38,390 --> 00:24:36,720

in comparison

398

00:24:41,110 --> 00:24:38,400

but as

399

00:24:44,149 --> 00:24:41,120

everything new it is exciting

400

00:24:50,149 --> 00:24:46,870

mikhail it's your second day of uh

401
00:24:53,110 --> 00:24:50,159
evaluation training uh how can you

402
00:24:54,710 --> 00:24:53,120
uh assess the first day

403
00:24:55,510 --> 00:24:54,720
was the first day more difficult than

404
00:24:57,590 --> 00:24:55,520
today

405
00:25:00,470 --> 00:24:57,600
i wouldn't be

406
00:25:03,190 --> 00:25:00,480
comparing them both days are complex and

407
00:25:05,430 --> 00:25:03,200
very challenging and both days are

408
00:25:06,710 --> 00:25:05,440
dedicated to separate

409
00:25:09,510 --> 00:25:06,720
elements

410
00:25:12,070 --> 00:25:09,520
and parts of the program

411
00:25:14,950 --> 00:25:12,080
both are very important and very

412
00:25:18,230 --> 00:25:16,630
are you happy with the results yes of

413
00:25:21,190 --> 00:25:18,240

course

414

00:25:23,190 --> 00:25:21,200

in two ways for sure first of all it's

415

00:25:24,950 --> 00:25:23,200

the interaction of the crew and second

416

00:25:26,630 --> 00:25:24,960

of all is our interaction with the

417

00:25:28,390 --> 00:25:26,640

flight control team

418

00:25:29,190 --> 00:25:28,400

we've learned that

419

00:26:00,950 --> 00:25:29,200

we

420

00:26:04,549 --> 00:26:02,870

and just a little over a year ago you

421

00:26:07,269 --> 00:26:04,559

yourself were taking those soyuz

422

00:26:08,870 --> 00:26:07,279

qualifications

423

00:26:12,310 --> 00:26:08,880

can you tell us what's going on in that

424

00:26:16,310 --> 00:26:14,789

sure this is a very important stage of

425

00:26:18,870 --> 00:26:16,320

the training

426

00:26:21,669 --> 00:26:18,880

what they're going through is the whole

427

00:26:23,909 --> 00:26:21,679

launch day rendezvous day and then

428

00:26:25,590 --> 00:26:23,919

undocking and landing day it's going to

429

00:26:27,990 --> 00:26:25,600

take eight hours

430

00:26:29,830 --> 00:26:28,000

which in real life would take of course

431

00:26:31,590 --> 00:26:29,840

six hours to get to the station and then

432

00:26:33,909 --> 00:26:31,600

after undocking another four hours to

433

00:26:36,310 --> 00:26:33,919

get back to the earth so it's a slightly

434

00:26:38,310 --> 00:26:36,320

compressed but it is really a summary of

435

00:26:40,710 --> 00:26:38,320

all the critical dynamic operations that

436

00:26:42,149 --> 00:26:40,720

the soyuz will perform going up to the

437

00:26:52,070 --> 00:26:42,159

station and then coming back home to

438

00:26:56,390 --> 00:26:54,630

it's pretty darn close you know we do

439

00:26:58,310 --> 00:26:56,400

training like this and training in a

440

00:27:00,710 --> 00:26:58,320

hydra lab or the neutral buoyancy lab

441

00:27:02,630 --> 00:27:00,720

for spacewalks we do robotic training on

442

00:27:04,870 --> 00:27:02,640

a computer and all of those elements of

443

00:27:07,510 --> 00:27:04,880

training are very realistic and really

444

00:27:08,789 --> 00:27:07,520

get you ready so that you're feeling

445

00:27:10,470 --> 00:27:08,799

when you're going through this critical

446

00:27:12,070 --> 00:27:10,480

operations like you've done this before

447

00:27:13,830 --> 00:27:12,080

you're not necessarily nervous like oh

448

00:27:15,590 --> 00:27:13,840

i've never seen this before so it's

449

00:27:16,870 --> 00:27:15,600

really good and this is great training

450

00:27:18,789 --> 00:27:16,880

that these guys are going through right

451

00:27:20,310 --> 00:27:18,799

now and you know my comment to them as

452

00:27:22,470 --> 00:27:20,320

they were getting ready was have fun

453

00:27:23,669 --> 00:27:22,480

because if they can start to imagine

454

00:27:25,190 --> 00:27:23,679

what it's really going to be like when