



| Category | Value |
|----------|-------|
| Item 1 | 100 |
| Item 2 | 200 |
| Item 3 | 300 |
| Item 4 | 400 |
| Item 5 | 500 |
| Item 6 | 600 |
| Item 7 | 700 |
| Item 8 | 800 |
| Item 9 | 900 |
| Item 10 | 1000 |

1
00:00:03,990 --> 00:00:02,550
i'm here at the payload operations

2
00:00:05,510 --> 00:00:04,000
center at marshall space flight center

3
00:00:06,789 --> 00:00:05,520
this is the command post for

4
00:00:08,390 --> 00:00:06,799
international space station science

5
00:00:09,910 --> 00:00:08,400
where they coordinate all the activities

6
00:00:12,470 --> 00:00:09,920
and joining me now is astronaut tj

7
00:00:13,910 --> 00:00:12,480
creamer who you were an astronaut on the

8
00:00:15,110 --> 00:00:13,920
space station and now you have a new

9
00:00:16,870 --> 00:00:15,120
role here at marshall what's it all

10
00:00:18,950 --> 00:00:16,880
about well thanks for asking this is

11
00:00:21,109 --> 00:00:18,960
pretty important actually um as you

12
00:00:22,870 --> 00:00:21,119
alluded to i would spend just just under

13
00:00:24,710 --> 00:00:22,880

six months at the space station so that

14

00:00:27,429 --> 00:00:24,720

brings a whole bunch of training aspects

15

00:00:29,429 --> 00:00:27,439

coordination aspects operation awareness

16

00:00:31,189 --> 00:00:29,439

and after i came out of my post-flight

17

00:00:33,350 --> 00:00:31,199

pr period that's when the program was

18

00:00:34,950 --> 00:00:33,360

ramping up uh payload operations because

19

00:00:36,630 --> 00:00:34,960

we had constructed space station we're

20

00:00:38,310 --> 00:00:36,640

going to go into the utilization phase

21

00:00:40,310 --> 00:00:38,320

now and i thought at that time it might

22

00:00:42,470 --> 00:00:40,320

be a nice marriage of both my interests

23

00:00:44,709 --> 00:00:42,480

my experience the operational awareness

24

00:00:46,630 --> 00:00:44,719

to come to do where the hard work is

25

00:00:49,190 --> 00:00:46,640

being done so that makes the cruise

26

00:00:50,150 --> 00:00:49,200

operations easier and this is the place

27

00:00:52,150 --> 00:00:50,160

to come

28

00:00:54,150 --> 00:00:52,160

and the opportunity to be a payload

29

00:00:56,470 --> 00:00:54,160

operations director to to train for that

30

00:00:58,549 --> 00:00:56,480

to become one and to help out in the the

31

00:01:00,709 --> 00:00:58,559

ground coordinations was seem to me to

32

00:01:02,549 --> 00:01:00,719

be paramount for the program let's tell

33

00:01:03,990 --> 00:01:02,559

folks exactly what a payload operations

34

00:01:05,509 --> 00:01:04,000

director does

35

00:01:07,910 --> 00:01:05,519

well like perhaps we can start out with

36

00:01:10,310 --> 00:01:07,920

an analogy if you've seen the movie

37

00:01:12,550 --> 00:01:10,320

apollo 13 with gene krantz being the the

38

00:01:14,789 --> 00:01:12,560

flight director for the for the houston

39

00:01:16,789 --> 00:01:14,799

control room the analog to that flight

40

00:01:18,310 --> 00:01:16,799

the director is the payload operations

41

00:01:19,830 --> 00:01:18,320

director here at marshall and the

42

00:01:21,910 --> 00:01:19,840

payload operations director becomes the

43

00:01:23,270 --> 00:01:21,920

focal point for all the coordinations

44

00:01:25,749 --> 00:01:23,280

for the sub disciplines the people who

45

00:01:28,390 --> 00:01:25,759

are working with the racks doing the

46

00:01:29,990 --> 00:01:28,400

computer analysis the bandwidth analysis

47

00:01:31,109 --> 00:01:30,000

the the schedule maintenance the

48

00:01:32,710 --> 00:01:31,119

coordinations with the payload

49

00:01:34,950 --> 00:01:32,720

developers and the

50

00:01:37,350 --> 00:01:34,960

people who are actually needing the data

51
00:01:39,670 --> 00:01:37,360
the all that gets filtered through and

52
00:01:40,870 --> 00:01:39,680
underneath the the operations the daily

53
00:01:42,710 --> 00:01:40,880
operations of the payload operations

54
00:01:45,030 --> 00:01:42,720
director who focuses on the real-time

55
00:01:46,950 --> 00:01:45,040
stuff so tj you've been training since

56
00:01:48,789 --> 00:01:46,960
september to become certified as a

57
00:01:49,830 --> 00:01:48,799
payload operations director what's

58
00:01:51,830 --> 00:01:49,840
what's been going on what you've been

59
00:01:54,789 --> 00:01:51,840
doing well i've tried to elude there's

60
00:01:57,749 --> 00:01:54,799
many aspects of this job so as we grow

61
00:01:59,030 --> 00:01:57,759
in the programmatic awareness of the job

62
00:02:00,230 --> 00:01:59,040
then we have to get

63
00:02:02,389 --> 00:02:00,240

more into the details of each of the

64

00:02:04,789 --> 00:02:02,399

positions the payload rack officer of

65

00:02:06,469 --> 00:02:04,799

course is looking at the racks

66

00:02:07,910 --> 00:02:06,479

of great interest that run the

67

00:02:09,190 --> 00:02:07,920

experiment and we get to learn a little

68

00:02:10,790 --> 00:02:09,200

bit about their job not become the

69

00:02:13,270 --> 00:02:10,800

subject matter experts but at least to

70

00:02:14,710 --> 00:02:13,280

be able to be cocktail party fluent in

71

00:02:16,550 --> 00:02:14,720

that business so we can have the

72

00:02:19,030 --> 00:02:16,560

conversations we need to have

73

00:02:20,949 --> 00:02:19,040

the stoich people of course are

74

00:02:23,030 --> 00:02:20,959

pretty much rule a lot of the logistical

75

00:02:24,390 --> 00:02:23,040

portion of our lives on board in fact

76

00:02:26,949 --> 00:02:24,400

the logistics will

77

00:02:28,710 --> 00:02:26,959

make the day or break the day largely

78

00:02:30,550 --> 00:02:28,720

the operations controller

79

00:02:33,350 --> 00:02:30,560

is our real-time safety officer and of

80

00:02:35,110 --> 00:02:33,360

course is the second brain power in the

81

00:02:36,390 --> 00:02:35,120

room to make sure that one individual

82

00:02:38,229 --> 00:02:36,400

brain doesn't go off

83

00:02:40,869 --> 00:02:38,239

in the wrong direction

84

00:02:42,309 --> 00:02:40,879

the person who works with all the data

85

00:02:44,309 --> 00:02:42,319

flow

86

00:02:46,390 --> 00:02:44,319

planning and programs and making sure

87

00:02:48,550 --> 00:02:46,400

that the communications and the video is

88

00:02:50,309 --> 00:02:48,560

all squared away that's good and then

89

00:02:52,070 --> 00:02:50,319

let's talk simply about individual

90

00:02:55,110 --> 00:02:52,080

experiments each of the individual

91

00:02:55,910 --> 00:02:55,120

experiments gets serviced by

92

00:02:57,910 --> 00:02:55,920

the

93

00:02:59,030 --> 00:02:57,920

available resources onboard space

94

00:03:01,270 --> 00:02:59,040

station and we have to be able to

95

00:03:02,470 --> 00:03:01,280

coordinate with houston and how is the

96

00:03:03,990 --> 00:03:02,480

right way of being able to coordinate

97

00:03:05,830 --> 00:03:04,000

with houston matters about what

98

00:03:07,589 --> 00:03:05,840

resources are being used

99

00:03:09,750 --> 00:03:07,599

for that matter we have experience

100

00:03:12,229 --> 00:03:09,760

experiments in international partner

101
00:03:14,149 --> 00:03:12,239
modules so we also have to begin to be

102
00:03:16,070 --> 00:03:14,159
able to understand their needs their

103
00:03:17,190 --> 00:03:16,080
constraints and the way to communicate

104
00:03:18,550 --> 00:03:17,200
with them in order to make the

105
00:03:21,350 --> 00:03:18,560
experiments wherever they're located on

106
00:03:23,030 --> 00:03:21,360
space station viable

107
00:03:24,869 --> 00:03:23,040
to me it's a win-win situation you've

108
00:03:26,309 --> 00:03:24,879
got someone who's been on orbit and and

109
00:03:27,509 --> 00:03:26,319
it kind of is conversely you're learning

110
00:03:30,390 --> 00:03:27,519
from them but they're learning from you

111
00:03:31,990 --> 00:03:30,400
too right i certainly hope so the um

112
00:03:34,229 --> 00:03:32,000
vernacular that you are able to come

113
00:03:35,670 --> 00:03:34,239

away with from a space mission certainly

114

00:03:37,270 --> 00:03:35,680

helps you with the ability to envision

115

00:03:38,630 --> 00:03:37,280

what's going on as you look at the

116

00:03:39,589 --> 00:03:38,640

paperwork and the coordinations on the

117

00:03:41,509 --> 00:03:39,599

ground

118

00:03:44,149 --> 00:03:41,519

the primary mission here is to make the

119

00:03:45,589 --> 00:03:44,159

jobs that we need human hands for in a

120

00:03:47,190 --> 00:03:45,599

weightless environment to be most

121

00:03:49,990 --> 00:03:47,200

efficient so we can reap the most amount

122

00:03:52,710 --> 00:03:50,000

of benefit time wise as well as in data

123

00:03:54,390 --> 00:03:52,720

and in science results

124

00:03:55,830 --> 00:03:54,400

so where does it go from here what will

125

00:03:57,350 --> 00:03:55,840

be your job after this after you're

126
00:03:58,309 --> 00:03:57,360
certified what happens yeah you're

127
00:04:00,149 --> 00:03:58,319
asking

128
00:04:01,589 --> 00:04:00,159
all those great questions the training

129
00:04:03,429 --> 00:04:01,599
since september has been able to provide

130
00:04:05,830 --> 00:04:03,439
me the opportunity to train towards

131
00:04:07,350 --> 00:04:05,840
certification and everything goes right

132
00:04:10,390 --> 00:04:07,360
and perhaps this time next week we might

133
00:04:12,070 --> 00:04:10,400
be actually a verifiable certified pod

134
00:04:13,750 --> 00:04:12,080
um but then i hope to be able to

135
00:04:15,990 --> 00:04:13,760
continue to contribute

136
00:04:18,550 --> 00:04:16,000
with more visits to marshall be part of

137
00:04:20,390 --> 00:04:18,560
the pod rotation and to be able to help

138
00:04:22,150 --> 00:04:20,400

in the joining the two operational

139

00:04:24,870 --> 00:04:22,160

communities to be quite honest with you

140

00:04:25,830 --> 00:04:24,880

i'm in a unique position to be a liaison

141

00:04:27,909 --> 00:04:25,840

between

142

00:04:29,189 --> 00:04:27,919

the houston operational community and

143

00:04:32,150 --> 00:04:29,199

the marshall payload operations

144

00:04:33,510 --> 00:04:32,160

community and be able to liaise

145

00:04:35,030 --> 00:04:33,520

between these two communities allows us

146

00:04:36,790 --> 00:04:35,040

to be even more efficient and be able to

147

00:04:38,230 --> 00:04:36,800

get to understand each other better

148

00:04:39,990 --> 00:04:38,240

and when you're on orbit you kind of

149

00:04:42,070 --> 00:04:40,000

become family with with the folks down

150

00:04:44,390 --> 00:04:42,080

here right so i know now what's it like

151
00:04:46,230 --> 00:04:44,400
when you talk to a crew member now and

152
00:04:47,990 --> 00:04:46,240
they get to hear your voice down here it

153
00:04:49,350 --> 00:04:48,000
is actually kind of cute um if i

154
00:04:50,870 --> 00:04:49,360
surprise

155
00:04:52,310 --> 00:04:50,880
them and take over the comms for

156
00:04:54,150 --> 00:04:52,320
whatever reason it's

157
00:04:55,749 --> 00:04:54,160
old home week and you can hear the

158
00:04:56,469 --> 00:04:55,759
smiles and just the voices that come

159
00:04:58,629 --> 00:04:56,479
down

160
00:05:00,950 --> 00:04:58,639
on another side though some of the the

161
00:05:02,469 --> 00:05:00,960
pay comes with whom i spoke with

162
00:05:04,710 --> 00:05:02,479
while i was up in orbit down here is

163
00:05:06,070 --> 00:05:04,720

it's interesting and it's fun to joke

164

00:05:08,390 --> 00:05:06,080

with me about some of the jokes we had

165

00:05:11,350 --> 00:05:08,400

on orbit or one of the actually the

166

00:05:13,350 --> 00:05:11,360

eurocom the the european paycom was one

167

00:05:14,629 --> 00:05:13,360

of the paycoms that i talked to uh while

168

00:05:16,469 --> 00:05:14,639

i was up in orbit got to talk with her

169

00:05:18,390 --> 00:05:16,479

today and it was nice to hear an old

170

00:05:20,550 --> 00:05:18,400

familiar voice and we had shared some

171

00:05:22,710 --> 00:05:20,560

old times like i should say so it's it's

172

00:05:23,510 --> 00:05:22,720

nice to put faces to voices and be able

173

00:05:24,790 --> 00:05:23,520

to have a little bit of a shared

174

00:05:26,710 --> 00:05:24,800

experience as we go through the

175

00:05:28,070 --> 00:05:26,720

operations well i know that they are so

176

00:05:29,270 --> 00:05:28,080

lucky to have you and glad to have you