



1
00:00:05,910 --> 00:00:03,990
welcome to the neutral buoyancy

2
00:00:07,269 --> 00:00:05,920
laboratory at the sunny carter training

3
00:00:08,950 --> 00:00:07,279
facility

4
00:00:11,270 --> 00:00:08,960
let us take a moment to look around

5
00:00:13,749 --> 00:00:11,280
before we begin

6
00:00:15,749 --> 00:00:13,759
looking down into the south high bay we

7
00:00:17,269 --> 00:00:15,759
can see the hyperbaric and hypobaric

8
00:00:19,109 --> 00:00:17,279
chambers

9
00:00:21,189 --> 00:00:19,119
as we begin moving toward the north end

10
00:00:23,750 --> 00:00:21,199
of the building we can get a good look

11
00:00:28,310 --> 00:00:23,760
at the actual pool

12
00:00:31,589 --> 00:00:28,320
the pool is 202 feet long 102 feet wide

13
00:00:35,590 --> 00:00:31,599

and 40 feet deep that comes out to be

14

00:00:37,750 --> 00:00:35,600

about 6.2 million gallons of water

15

00:00:38,950 --> 00:00:37,760

this flyover is being provided by one of

16

00:00:42,709 --> 00:00:38,960

the two overhead

17

00:00:45,670 --> 00:00:42,719

dmag cranes these cranes can lift loads

18

00:00:47,750 --> 00:00:45,680

up to 20.6 tons

19

00:00:50,310 --> 00:00:47,760

now let us take an inside peek behind

20

00:00:53,029 --> 00:00:50,320

some of the day-to-day operations

21

00:00:54,229 --> 00:00:53,039

say hello to astronauts bob hines and

22

00:00:56,389 --> 00:00:54,239

canadian astronaut

23

00:00:57,750 --> 00:00:56,399

jennifer seide as they begin a day of

24

00:01:02,549 --> 00:00:57,760

training on the iss

25

00:01:05,830 --> 00:01:04,469

this training is possible due to the

26

00:01:08,950 --> 00:01:05,840

support of the nbl

27

00:01:09,590 --> 00:01:08,960

staff and safety divers watch as one of

28

00:01:11,750 --> 00:01:09,600

the four

29

00:01:13,990 --> 00:01:11,760

jib cranes lifts the astronauts off the

30

00:01:16,230 --> 00:01:14,000

deck and into the pool

31

00:01:17,030 --> 00:01:16,240

these cranes are capable of lifting two

32

00:01:18,630 --> 00:01:17,040

tons

33

00:01:20,950 --> 00:01:18,640

which makes lifting the two suits that

34

00:01:45,830 --> 00:01:20,960

weigh about 280 pounds each

35

00:01:52,830 --> 00:01:47,990

now for a glimpse under the surface

36

00:01:52,840 --> 00:02:04,400

experience

37

00:02:09,830 --> 00:02:07,030

[Music]

38

00:02:11,430 --> 00:02:09,840

as we continue let us look to the east

39

00:02:14,150 --> 00:02:11,440

at the second floor

40

00:02:15,990 --> 00:02:14,160

control rooms are located here these

41

00:02:19,030 --> 00:02:16,000

control rooms monitor testing

42

00:02:20,309 --> 00:02:19,040

inside the pool turning our attention

43

00:02:22,550 --> 00:02:20,319

back to the north

44

00:02:23,830 --> 00:02:22,560

you can see two big spheres near the

45

00:02:26,150 --> 00:02:23,840

sides

46

00:02:28,070 --> 00:02:26,160

these spheres are wave generators that

47

00:02:30,470 --> 00:02:28,080

simulate real conditions for rescue

48

00:02:32,630 --> 00:02:30,480

operations and training

49

00:02:40,470 --> 00:02:32,640

let us take a closer look at some water

50

00:02:44,630 --> 00:02:42,309

the water survival training course

51
00:02:46,630 --> 00:02:44,640
consists of four stations

52
00:02:48,710 --> 00:02:46,640
those stations simulate being dropped

53
00:02:51,509 --> 00:02:48,720
into the water

54
00:02:53,190 --> 00:02:51,519
dragged by a parachute how to aggress

55
00:03:14,550 --> 00:02:53,200
from under the parachute

56
00:03:29,030 --> 00:03:17,030
looking down into the north high bay we

57
00:03:32,149 --> 00:03:30,630
next stop on our tour of the sunny

58
00:03:46,309 --> 00:03:32,159
carter training facility

59
00:03:48,229 --> 00:03:46,319
is the light manufacturing facility

60
00:03:49,910 --> 00:03:48,239
this high bay provides a series of

61
00:03:50,710 --> 00:03:49,920
workshops for building and maintaining

62
00:03:58,830 --> 00:03:50,720
equipment

63
00:03:58,840 --> 00:04:25,990

personnel

64

00:04:29,909 --> 00:04:28,230

sunny carter training facility provides

65

00:04:31,830 --> 00:04:29,919

a safe environment for training

66

00:04:33,670 --> 00:04:31,840

and evaluating procedures used in

67

00:04:35,830 --> 00:04:33,680

complex water operations

68

00:04:37,189 --> 00:04:35,840

helping minimize threats to health and

69

00:04:39,909 --> 00:04:37,199

safety

70

00:04:41,110 --> 00:04:39,919

whatever your needs are nasa's sunny