



1  
00:00:36,210 --> 00:00:33,420  
ever since the first successful powered

2  
00:00:39,090 --> 00:00:36,220  
flight men has been fascinated with the

3  
00:00:56,710 --> 00:00:39,100  
possibility of expanding his horizons to

4  
00:01:04,310 --> 00:00:59,450  
unfortunately technology would take a

5  
00:01:04,320 --> 00:01:21,249  
but not for long

6  
00:01:26,710 --> 00:01:24,170  
manned spaceflight has become a reality

7  
00:01:30,830 --> 00:01:26,720  
which has surpassed even man's

8  
00:01:34,190 --> 00:01:30,840  
expectations now it's time for the next

9  
00:02:03,609 --> 00:01:34,200  
step Man's first permanent habitat in

10  
00:02:07,190 --> 00:02:03,619  
space sometime in the early 1990s NASA

11  
00:02:09,080 --> 00:02:07,200  
plans to assemble and begin operation of

12  
00:02:12,740 --> 00:02:09,090  
its first permanently manned space

13  
00:02:15,559 --> 00:02:12,750

station here at Marshall Space Flight

14

00:02:17,840 --> 00:02:15,569

Center scientists and technicians are

15

00:02:20,150 --> 00:02:17,850

working to develop the modules which

16

00:02:30,000 --> 00:02:20,160

will be used as living laboratories for

17

00:02:30,010 --> 00:02:36,250

three two one

18

00:02:41,090 --> 00:02:39,020

the space shuttle will be used to ferry

19

00:02:43,460 --> 00:02:41,100

the various space station components

20

00:02:45,140 --> 00:02:43,470

into a low-earth orbit where they are to

21

00:02:50,270 --> 00:02:45,150

be assembled as they circle the earth

22

00:02:52,040 --> 00:02:50,280

over 17,000 miles per hour a variety of

23

00:02:54,410 --> 00:02:52,050

new construction methods are being

24

00:02:56,870 --> 00:02:54,420

developed as well while based on those

25

00:03:00,410 --> 00:02:56,880

used on earth they must be adapted to

26

00:03:02,360 --> 00:03:00,420

the peculiarities of outer space at the

27

00:03:04,729 --> 00:03:02,370

center of the space station are the

28

00:03:07,699 --> 00:03:04,739

pressurized modules where crews will

29

00:03:09,680 --> 00:03:07,709

work and live every attempt is being

30

00:03:13,880 --> 00:03:09,690

made to make their environment as

31

00:03:18,640 --> 00:03:13,890

comfortable as possible the habitation

32

00:03:24,400 --> 00:03:18,650

module will be used for eating sleeping

33

00:03:27,770 --> 00:03:24,410

personal hygiene waste management and

34

00:03:30,830 --> 00:03:27,780

recreation the modules will accommodate

35

00:03:33,140 --> 00:03:30,840

up to eight crew members the health

36

00:03:34,910 --> 00:03:33,150

maintenance facility is designed so the

37

00:03:37,040 --> 00:03:34,920

astronauts can monitor their own

38

00:03:39,410 --> 00:03:37,050

physical condition by checking their

39

00:03:42,410 --> 00:03:39,420

vital signs and using x-rays and blood

40

00:03:43,850 --> 00:03:42,420

samples there will also be exercise

41

00:03:47,870 --> 00:03:43,860

equipment for daily physical

42

00:03:49,670 --> 00:03:47,880

conditioning the u.s. laboratory module

43

00:03:51,560 --> 00:03:49,680

will provide a shirtsleeve work

44

00:03:53,240 --> 00:03:51,570

environment for performing many

45

00:03:58,130 --> 00:03:53,250

different experiments including

46

00:04:02,560 --> 00:03:58,140

materials processing life sciences

47

00:04:05,240 --> 00:04:02,570

research and solar system exploration

48

00:04:07,220 --> 00:04:05,250

many of the experiments require the

49

00:04:10,009 --> 00:04:07,230

unique environment of weightless space

50

00:04:11,810 --> 00:04:10,019

and offer incredible potential for

51  
00:04:21,780 --> 00:04:11,820  
solving a variety of medical and

52  
00:04:26,950 --> 00:04:24,909  
the logistics module will consist of an

53  
00:04:29,440 --> 00:04:26,960  
interchangeable pressurized carrier

54  
00:04:31,930 --> 00:04:29,450  
which will provide expendable items such

55  
00:04:35,860 --> 00:04:31,940  
as food to be used by the space station

56  
00:04:38,080 --> 00:04:35,870  
crew on a continuing basis the space

57  
00:04:40,510 --> 00:04:38,090  
station will also enable in orbit

58  
00:04:43,750 --> 00:04:40,520  
assembly and check out of large space

59  
00:04:46,480 --> 00:04:43,760  
structures such as antennas astronomical

60  
00:04:49,810 --> 00:04:46,490  
telescopes and satellites prior to their

61  
00:04:51,850 --> 00:04:49,820  
deployment in their own or also the

62  
00:04:54,250 --> 00:04:51,860  
space station will provide an assembly

63  
00:05:04,999 --> 00:04:54,260

area for construction of permanent man