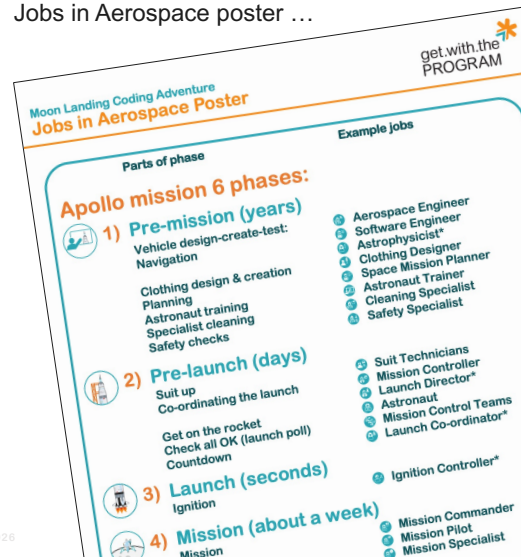


Jobs in Aerospace: Mission phase reminders

Apollo mission 6 phases:

- 1) Pre-mission (years)
- 2) Pre-launch (days)
- 3) Launch (seconds)
- 4) Mission (about a week)
- 5) Return (hours)
- 6) Post-mission (months)

Jobs in Aerospace poster ...



1

Jobs in Aerospace and the skills involved



An **Aerospace Engineer** designs, builds and tests machines that fly as well as their launch components.

- They help make sure these machines and components are safe, fully tested, and work properly.
- Aerospace engineers solve problems, work as part of a team and come up with new ideas.

Skills involved in this role:



A **Cleaning Specialist** helps keep spacecraft, satellites, equipment and work areas clean.

- Their work helps ensure anything being sent into space has no unwanted items like dirt, to reduce the chance of things going wrong.
- Cleaning specialists are especially important during the 'create' and 'assembly' (putting together) part of any space mission.

Skills involved in this role:



2

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Jobs in Aerospace and the skills involved



A Clothing Designer
helps create the special clothes including spacesuits that astronauts wear in space.

- They make sure all the clothes and spacesuits are made for their specific use.
- For instance, they make sure the spacesuits protect astronauts from the extreme temperatures of space.
- Spacesuits are like tiny spacecraft that astronauts can wear!

Skills involved in this role:


Creativity skills


Sewing skills


Maths skills


Problem solving skills


Planning skills



A Software Engineer or Computer Scientist
writes computer programs that help rockets, spacecraft and astronauts.

- They write and test code that can control spacecraft, collect information, communicate with Earth and solve problems during missions.
- They make sure the technology works properly so that space missions can be completed safely and successfully.

Skills involved in this role:


Teamwork skills


Maths skills


Planning skills


Adaptability skills


Problem solving skills

3

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Jobs in Aerospace and the skills involved



An Astronaut Trainer
helps astronauts learn all the skills they need before they travel into space.

- They teach astronauts how to use spacecraft, work as a team, stay safe, and solve problems.
- Astronaut trainers create practice activities that help astronauts prepare for things such as floating in zero gravity, carrying out experiments, or dealing with emergencies.

Skills involved in this role:


Speaking skills


Problem solving skills


Teamwork skills


Science skills


Planning skills



A Mission Controller
helps astronauts from Earth while they are on a space mission.

- They work in a control centre filled with computers and screens that show information about the spacecraft.
- Mission controllers watch how the spacecraft is working, solve problems, and give astronauts important instructions.
- They help make sure the mission stays safe.

Skills involved in this role:


Teamwork skills


Problem solving skills


Planning skills


Adaptability skills


Speaking skills

4

Jobs in Aerospace and the skills involved

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A Space Medical Specialist
helps astronauts stay healthy before, during and after their space missions.

- They check astronauts' health, help them exercise, and make sure they know what to do if they feel unwell in space.
- They also study how living in space affects the human body.

Skills involved in this role:


Health skills


Problem solving skills


Science skills


Listening skills


Food skills

A Safety Specialist
makes sure that space missions are as safe as possible.



- They check equipment, look for problems that might cause accidents, and help create safety rules for astronauts and engineers to follow.
- Safety specialists help to assess the risks of going into space.

Skills involved in this role:


Problem solving skills


Planning skills


Teamwork skills


Adaptability skills


Cleaning skills

Jobs in Aerospace and the skills involved

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An Astronaut travels into space to explore and carry out experiments.

- They help scientists learn more about our universe.
- Astronauts work as part of a team, operate spacecraft, solve problems, and often spend months training for their missions.
- They often have specialist roles, such as commander, pilot or mission specialist.

Skills involved in this role:


Teamwork skills


Problem solving skills


Adaptability skills


Exercise skills


Speaking skills

A Spacesuit Technician
builds and checks spacesuits and helps astronauts get into them before launch



- Spacesuit technicians make sure astronauts are safe in space.
- They check the suit to ensure it can provide air and protect them from the harsh conditions of space.
- They help them get into their suits just before launch.

Skills involved in this role:


Planning skills


Sewing skills


Science skills


Maths skills


Problem solving skills

Follow-on activities...

'Jobs in Aerospace' Bingo



This is a bingo game, but with names for aerospace jobs instead of numbers.

It can be played in pairs, small groups or independently.

Listen or watch out for the jobs on your board and either mark them off, or put a counter on a job when you see or hear it. *Remember if you are given one board each, some of you may have the same ones, so you must pay attention and call out 'bingo' first to win!*

A winner can be determined by filling a row of 4, or whole board.

You may have to listen for the jobs to be called out, or you may be given a pile of jobs to pick from.

Have fun!

7

Plenary

Now let's review what we have just been learning!

Do you remember these jobs?

aerospace engineer
clothing designer

safety specialist
cleaning specialist

mission controller
astronaut

Now think about:

- Were there more jobs than you expected?
- What job did you like the sound of the most?
- Would you want to do any of these jobs?
- Why would, or wouldn't, you want to do them?



8