

Aeronautical Engineering Technician

Aliases: Aeronautical Engineer, Aeronautical Technician, Laboratory Test Mechanic, Aircraft Test Analyst

Industry/Sector(s): Aerospace and Aviation

JOB DESCRIPTION ¹

The tasks an Aeronautical Engineering Technician is expected to perform include:

- Setting up and operating equipment to test metal aircraft parts according to standard procedures to discover faults of design and fabrication
- Installing units such as rib, assemblies, struts, landing gears, valves, ducts, universal joints and motors in testing equipment and machines
- Connecting wiring, tubing, couplings and power sources using hand tools

WORK ENVIRONMENT ^{1, 2}

- It requires physical activity
- Need not handle a team
- Local travelling is not a part of this job role
- Part-time work and contractual jobs are available
- Work from home option is not available

Working hours

- Individual usually works for 5/6 days a week and 8/9 hours everyday. The organization or institution remains open and functional for 24 hours a day and 7 days a week
- Shift system may be available
- Overtime may be required

Is the job suitable for a candidate with special needs?

This job is suitable for candidates with One Arm (OA) and One Leg (OL)

This may vary from organization to organization

EDUCATIONAL QUALIFICATIONS AND TRAINING ³

Preferably, graduate degree

KEY COMPETENCIES ¹

- Proficient in measuring induced variations from normal with precision instruments such as micrometres, vernier callipers, manometers, pressure gauges, flow meters, strain gauges, dynamometers, etc.
- Adept at recording results for analysis by engineering department
- Well-versed with operating test equipment and machines
- Knowledge of determining factors such as stress, strain, pressure turbulences, velocities, flow of fuel, oil and air, wear and usability of installed units under conditions of heat, cold, high speeds, torque and load
- Knowledge of developing devices such as flat patterns, contour templates and forming block using hand tools and machine tools
- Knowledge of making mechanical, sheet metal and plumbing parts and assemblies for experimental test projects

DESIRABLE COMPETENCIES ¹

- Problem-solving skills
- Good communication skills

AVAILABLE SKILL TRAINING AND LEARNING INSTITUTES

Colleges across India

AVAILABLE SKILL TRAINING SCHEMES/SCHOLARSHIPS

For scholarship and schemes, use further links like:

- <https://scholarships.gov.in/>

SAMPLE OF TRAINING AND LEARNING COURSES

<https://www.iist.ac.in/admissions/undergraduate/btech-aerospace-engineering>

CAREER PROGRESSION PATH ⁴

Trainee → **Aeronautical Engineering Technician** → Aeronautical Engineer
The progression is indicative

EXPECTED EARNINGS ³

•For new entrants - Rs 16,000 to Rs 25,000 per month

These figures are indicative and subject to change

REQUIRED WORK EXPERIENCE ³

Some organizations hire new entrants too

PROBABLE EMPLOYERS ^{1, 3}

Organizations dealing with aviation and/or aerospace

KEYWORDS

- Aeronautical Engineer
- Aeronautical Technician
- Aircraft Test Analyst
- Laboratory Test Mechanic

OCCUPATIONAL CODES AND STANDARDS

Standard	Code	Description
NCO 2015	3115.1000	Aeronautical Engineering Technician
ISCO 2008	3115	Mechanical Engineering Technicians
NIC 2008	71200	Technical testing and analysis
QP Reference	Not available	Not available
NSQF	Not available	Not available

REFERENCES

1	National Classification of Occupations Division 3
2	http://www.ccdisabilities.nic.in/page.php?s=reg&t=def&p=list_jobsNew
3	http://www.htcampus.com/aeronautical-engineer-career/
4	http://dget.nic.in/upload/uploadfiles/files/publication/Des-Div-3.pdf