

# Automation Specialist

**Aliases:** Automation Tester

**Industry/Sector(s):** Automotive

## JOB DESCRIPTION <sup>1</sup>

The tasks an Automation Specialist is expected to perform include:

- Providing support to production operations
- Evaluating and maintaining the process control systems

## WORK ENVIRONMENT <sup>2, 1</sup>

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

### Working hours

- Organizations usually work for 5/6 days a week and 8/9 hours everyday. This may vary from organization to organization
- Shift system is not available
- Overtime may be required

### Is the job suitable for a candidate with special needs?

*This may vary from organization to organization*

## HEALTH AND SAFETY REQUIREMENTS/RISKS <sup>5</sup>

- This job is considered mildly hazardous or dangerous.
- One may develop occupational hazards like cuts and bruises, suffocation, etc.
- Health risks include injuries due to slips, trips, falls, misuse of tools, equipment and materials, exposure to excessive sound levels, etc.

## EDUCATIONAL QUALIFICATIONS AND TRAINING <sup>1</sup>

- Preferably, Diploma/B. Tech/B.E. in Industrial/Electrical/Electronic Engineering
- Certified training for Automation Specialist (programme aligned to ASC/Q 6807 released by Automotive Skills Development Council)

## KEY COMPETENCIES <sup>1</sup>

- Knowledge of the process control, automation systems and type of systems being used for the process
- Well-versed in electrical wiring, drawings of the existing layout/equipment/systems
- Familiar with the operation of electrical equipment, robotic instruments, PLC, SCADA, electrical elements operation and testing
- Proficient in troubleshooting/fault finding in pneumatic, hydraulic, electrical control system elements
- Knowledge of QMS system requirements, material and information flow of the process
- Proficient in problem-solving techniques like TOPS 8D 7 QC tools, etc.

## DESIRABLE COMPETENCIES <sup>1</sup>

- Training in the basic fundamentals of working of equipment and machinery, process control systems like PLC, VFD, HMI, SCADA etc. TPM, predictive maintenance techniques, automation, robotics and spares management
- Manual dexterity
- Physically fit
- Good hand-eye co-ordination
- Ability to work in teams

## PERSONALITY TRAITS <sup>1</sup>

- Flexible
- Independent
- Result-oriented
- Good mathematical and communication skills
- Logical comprehension

## AVAILABLE SKILL TRAINING AND LEARNING INSTITUTES

•Shri Ramdeobaba College of Engineering and Management (RCOEM)

<http://www.rknec.edu/>

•Karavali Institute of Technology (KIT)

<http://karavalicollege.ac.in/>

•ShriRam College of Engineering and Management

<http://srgoc.org/SRCCEM%20about.htm>

•Visvesvaraya National Institute of Technology (VNIT)

[http://www.vnit.ac.in/html\\_vnit/](http://www.vnit.ac.in/html_vnit/)

## AVAILABLE SKILL TRAINING SCHEMES/SCHOLARSHIPS

For scholarship and schemes, use further links like:

•<https://scholarships.gov.in/main.do>

## SAMPLE OF TRAINING AND LEARNING COURSES

[http://titagartala.nic.in/syllabus\\_dip\\_ee.pdf](http://titagartala.nic.in/syllabus_dip_ee.pdf)

## CAREER PROGRESSION PATH <sup>6</sup>

**Automation Specialist** → Automation Lead → Chief Engineer

*The progression is indicative*

### Transfer option

•India: Yes

•Abroad: Yes

(\*This field to open the relevant job title when clicked)

## EXPECTED EARNINGS <sup>5</sup>

For new entrants –Rs 8,000 to Rs 33,000 per month

*These figures are indicative and subject to change*

## REQUIRED WORK EXPERIENCE <sup>1</sup>

Generally, 5-6 years in Maintenance/Automation

## CURRENT MARKET TRENDS <sup>4</sup>

### Growth and Development in the Automotive Sector in India

Indian automotive industry holds a prestigious position in the world. It is one of the largest auto sectors in the world and in the year 2014-15, about 31% of the small cars sold in the world were manufactured in India. Growing middle class and a rise in the number of youth are the primary reasons why the automotive sector enjoys such a privileged position. India is also one of the prime auto exporters in the world and this segment is expected to grow even further in the next 4-5 years.

Foreign Direct Investment (FDI) is another reason for this sector to blossom the way it has. Many multinational and Indian companies have invested heavily, which has given this sector the boost it needed. Honda Motorcycle and Scooter India (HMSI) have jointly opened their fourth and the largest scooter plant in the world in Gujarat. Ford is going to introduce Ford Mustang in India in 2016. Nissan Motor Co. is in the process of tying up with the Government to introduce hybrid, technologically advanced, electric cars in India. General Motors, Chrysler, and many well-known players are going to invest in the automotive sector in India. Mercedes Benz has doubled its India assembly capacity. Bayerische Motoren Werke's (BMW) local unit is going to start sourcing for parts from India-based companies.

The Government has also been working constantly to encourage growth and development in this sector. Government has allowed 100% FDI under the automatic route. A separate Department of Transport is being set-up to deal with sector-specific issues. To increase tractor sales in India, Government is providing credits to farmers. Government is also promoting the use and sale of hybrid, eco-friendly, CNG-operated cars to help curb pollution. National Electric Mobility Mission 2020 is created to encourage introduction and eventual transition to eco-friendly, reliable, affordable, and efficient hybrid and electric cars in the country. Experts are predicting that by 2026 this sector will generate 65 million additional jobs in India.

## PROBABLE EMPLOYERS <sup>5</sup>

Automotive organizations

## JOB OPPORTUNITIES IN INDIA

Cities across India

## PEOPLE'S CORNER

Coming Soon

## KEYWORDS

- Automation Specialist
- Automotive Specialist

## OCCUPATIONAL CODES AND STANDARDS

Standard	Code	Description
NCO 2015	7412.0101	Automation Specialist
ISCO 2008	7412	Electrical Mechanics and Fitters
NIC 2008	45200	Maintenance and repair of motor vehicles
QP Reference	ASC/Q6807	Automation Specialist
NSQF	5	Not available

## REFERENCES

1	<a href="http://www.nsdcindia.org/sites/default/files/files/Automation-Specialist-1.pdf">http://www.nsdcindia.org/sites/default/files/files/Automation-Specialist-1.pdf</a>
2	<a href="http://socialjustice.nic.in/policiesacts3.php">http://socialjustice.nic.in/policiesacts3.php</a>
3	<a href="http://www.censusindia.gov.in">www.censusindia.gov.in</a>
4	<a href="http://www.ibef.org/industry/india-automobiles.aspx">http://www.ibef.org/industry/india-automobiles.aspx</a>
5	<a href="http://www.naukri.com/job-listings-Automation-Engineer-plc-Scada-walk-in-7-july-2016-to-16-July-2016-Ace-group-Ahmedabad-Jaipur-Surat-0-to-5-years-070716002601?src=seo_srp&amp;sid=14679943504048&amp;xp=50&amp;qp=automation&amp;srcPage=s">http://www.naukri.com/job-listings-Automation-Engineer-plc-Scada-walk-in-7-july-2016-to-16-July-2016-Ace-group-Ahmedabad-Jaipur-Surat-0-to-5-years-070716002601?src=seo_srp&amp;sid=14679943504048&amp;xp=50&amp;qp=automation&amp;srcPage=s</a>
6	National Classification of Occupations Division 3