

Design-for-Manufacture_Engineer

Aliases: Design Engineer

Industry/Sector(s): Electronics and HW

JOB DESCRIPTION ¹

The tasks a Design-for-Manufacture Engineer is expected to perform include:

- Converting electrical design drawings to wiring and assembly instructions that are easily understood by assembly technicians
- Interacting with the design engineer to understand specifications of product being developed
- Comparing specifications of new product with existing and identifying differences in terms of features and functionality
- Co-ordinating with the procurement department to ensure timely completion of production process

WORK ENVIRONMENT

- It is a desk job
- Work from home option is not available
- Part-time work and contractual jobs may be available in some cities
- Local travelling is not a part of this job role
- Need to handle a team

Working hours

- Working hours are 9/10 hours every day for 6 days a week. This may vary from company to company
- Shift system may be applicable

Is the job suitable for a candidate with special needs?

Maybe

EDUCATIONAL QUALIFICATIONS AND TRAINING ¹

- Minimum – Preferably BTech (Electrical)
- Certified training for Design-for-Manufacture-Engineer (programme aligned to ELE/Q6101 released by Electronics Sector Skills Council of India)

KEY COMPETENCIES ¹

- Knowledge of electrical and mechanical modules and components used in the production process
- Knowledge of basic mechanical and structural engineering concepts
- Proficient in CAD, Auto CAD, Pro E and other design and simulation software
- Well-versed with properties of electrical and electronic components frequently used in the manufacturing process
- Knowledge of wiring and circuit diagram
- Knowledge of basic power systems, motor fundamentals, drive system fundamentals
- Well-versed in power electronics and motor cabling requirements
- Adept in the identification of the correct software to be used and relevant factors to be considered
- Well-versed with sources and methods for obtaining required technical information for the design
- Knowledge of relevant documents and documentation procedures used in the process

DESIRABLE COMPETENCIES ¹

Not applicable

AVAILABLE SKILL TRAINING AND LEARNING INSTITUTES

- ITIs across India
- Electrical Engineering colleges across India
- Sahasra Sambhav Skill Development Pvt. Ltd., Sec-2, Noida – 201305, <http://www.sambhavinstitute.com>
- Funfirst Global Skillers Pvt. Ltd., A-303 &304, Kailas Industrial Complex, Veer Savarkar Marg, Ghatkopar Hiranandani Link Road, Vikhroli (W), Mumbai – 400079, <http://globalskillers.com>

AVAILABLE SKILL TRAINING SCHEMES/SCHOLARSHIPS

<http://www.ejobshub.in/2013/12/iocl-scholarship-2014-2015-download.html>
<http://www.ffe.org> <http://www.successcds.net/Scholarships/ge-foundation-scholarship-programme.html>

SAMPLE OF TRAINING AND LEARNING COURSES

http://www.uptu.ac.in/pdf/syllabus/btech_II_ee_group_revised_02sep14.pdf

CAREER PROGRESSION PATH

Design-for-Manufacture Engineer → Senior Engineer → Engineer Operations In-Charge

Transfer option

•India: Yes

•Abroad: Yes

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

EXPECTED EARNINGS ²

- For freshers – ₹ 15,000 to ₹ 20,000 per month
 - For candidates with 1 year of experience - ₹ 25,000 to ₹ 40,000 per month
- (These figures are indicative and subject to change)*

REQUIRED WORK EXPERIENCE ¹

Not required

PROBABLE EMPLOYERS

Electronics manufacturing companies across India

PEOPLE'S CORNER

Coming Soon

KEYWORDS

Design Engineer

OCCUPATIONAL CODES AND STANDARDS

Standard	Code	Description
NCO 2015	2151.0701	Design-for-Manufacture_Engineer
ISCO 2008	2151	Electrical Engineers
NIC 2008	26109	Manufacture of other electronic components n.e.c
QP Reference	ELE/Q1601	Design-for-Manufacture Engineer
NSQF	5	NA

REFERENCES

0	<p>http://www.eleb2b.com/ele/pdf/Defence-electronics.pdf</p> <p>www.censusindia.gov.in</p>
1	1 Qualification Pack – Design-for-Manufacture Engineer
2	http://jobsearch.naukri.com/design-for-manufacture-engineer-jobs
3	3 "Human Resource and Skill Requirements in the Electronics and IT Hardware Sector (2022) – A Report" released by NSDC
4	http://jobsearch.naukri.com/design-for-manufacture-engineer-jobs
5	http://www.nsdcindia.org/sites/default/files/files/Electronics-IT-hardware.pdf