Circuit Imaging Operator

Aliases: Photo Imaging Operator

Industry/Sector(s): Electronics and HW

JOB DESCRIPTION 1

The tasks a Circuit Imaging Operator is expected to perform include:

- •Placing the laminated board on the circuit imaging machine while taking due care in alignment of the holes drilled on the board
- •Placing the UV translucent film on the laminated board
- •Operating the machine to expose the photo resist to UV light
- Recognising basic faults in the circuit imaging machine and correcting them
- •Undergoing maintenance of the circuit imaging machine from time to time

WORK ENVIRONMENT 1, 2

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

Working hours

- •Organizations usually work for 5/6 days a week for 8/9 hours everyday. This may vary from organization to organization
- •Shift system may be available
- Overtime may be required

Is the job suitable for a candidate with special needs?

This may vary from organization to organization

EDUCATIONAL QUALIFICATIONS AND TRAINING ¹

- •Preferably, 10th
- •Certified training for Circuit Imaging Operator (programme aligned to ELE/Q2201 released by Electronics Sector Skills Development Council)

KEY COMPETENCIES 1

- •Thorough knowledge of the circuit imaging machine functioning
- •Knowledge of UV, photo resist, intensity, vacuum, alignment and their importance in the circuit imaging process
- Familiarity with operation and maintenance of machines such as laminator, imaging and developing machines
- •Knowledge of photo tools, development of the UV cured circuit, understanding of development parameters, knowledge of chemicals used for developing, etc.
- •Knowledge of the complete process of circuit imaging room including surface preparation of laminate, lamination of the board and cooling, circuit exposure and cooling and developing the exposed board
- Knowledge of manual and automated exposure machines and standard process
- Familiarity with circuit imaging process including surface preparation, lamination, exposure, cooling and developing
- •Knowledge of Dry Film Resist (DFR) lamination and DFR developer operations including process parameters, chemicals, calibration, exposure time, etc.
- Knowledge of various methods of imaging
- •Knowledge of IPC standards and criteria for printed circuit boards
- Knowledge of environment and safety norms
- Knowledge and understanding of common defects and remedies with cause

DESIRABLE COMPETENCIES 1

- •Planning and organizing skills
- •Team player
- Attention to detail

AVAILABLE SKILL TRAINING AND LEARNING INSTITUTES

Schools 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

For further guidance, contact your nearest Common Service Centre or Contact NCS Call Centre (Toll Free Number: 1800-425-1514)

CAREER PROGRESSION PATH 4

 $Helper \rightarrow \textbf{Circuit Imaging Operator} \rightarrow Production \ Supervisor/Process \ Engineer-Imaging \rightarrow Production \ Manager$

The progression is indicative

EXPECTED EARNINGS 3

●For new entrants - Rs 11,000 to Rs 12,000 per month

Standard	Code	Description
NCO 2015	7321.0802	Circuit Imaging Operator
ISCO 2008	7321	Pre-press Technicians
NIC 2008	26103	Manufacture of integrated circuits (analogue, digital or hybrid)
QP Reference	ELE/Q2201	Circuit Imaging Operator
NSQF	Level 4	Not available

REFERENCES		
1	http://www.nsdcindia.org/sites/default/files/files/ Circuit-Imaging-Operator.pdf	
2	http://www.ccdisabilities.nic.in/page.php?s=reg& t=def&p=list_jobsNew	
3	http://www.indeed.co.in/cmp/Ahker-Engineering- Company/jobs/Recruitment-Machine-Operator- 9a93fa77378c7fa9?q=Machine+Operators	
4	http://dget.nic.in/upload/uploadfiles/files/publication/Des-Div-7.pdf	

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