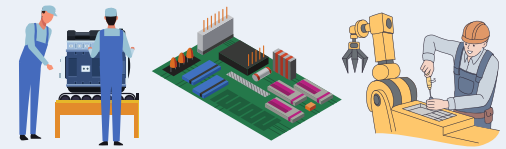


Electronic Assemblers, Fabricators, Inspectors and Testers



Electronics Assemblers, Fabricators, Inspectors and Testers work with a highly in demand and increasingly important set of goods. Working with electronic goods requires precision manufacturing skills, strong monitoring and quality control, and knowledge of electricity and design. These set of skills are highly desirable in manufacturing, and are even employed in some supervision roles, leading to strong transferability within the sector for these electronics workers.

Skills

Skills are developed through training and experience, and are the practical proficiencies someone possesses. The following are top key skills electronic assemblers and inspectors employ in their work:

1. Operations Monitoring
2. Active Listening
3. Operation and Control
4. Time Management
5. Critical Thinking

Tasks

Tasks are the assigned duties that an occupational group performs in their daily work. The following are some of the tasks electronic assemblers and inspectors most regularly encounter:

1. Measure dimensions of completed products or workpieces to verify conformance to specifications.
2. Monitor equipment operation to ensure that products are not flawed.
3. Enter commands, instructions, or specifications into equipment.
4. Read work orders or other instructions to determine product specifications or materials requirements.
5. Notify others of equipment repair or maintenance needs.

Technical Knowledge

Technical Knowledge is the understanding of theory and utility of modern tools in a work environment. The following tools are used by electronic assemblers and inspectors regularly:

1. Computer-aided design and manufacturing software
2. Label making software
3. Industrial control software
4. Analytical or scientific software
5. Content workflow software

Abilities

Abilities refer to the innate faculties that allow workers to carry out tasks and activities. The following are the top abilities that electronic assemblers and inspectors possess:

1. Finger Dexterity
2. Near Vision
3. Problem Sensitivity
4. Information Ordering
5. Oral Expression and Comprehension

Skills Transferability Matrix



FOCAL's Skills Transferability Matrices analyze the transferability of an occupation across a multitude of other occupations on the basis of similarities in **skills, technical knowledge, tasks, and abilities** as outlined by the O*Net database. It aims to show workers how to leverage their skill set in changing occupations, planning a career path, and transitioning to other industries. It also assists policy makers and educators address changing skill sets and areas of opportunity for workforce entrants in developing industries. Employers can also use this tool in reskilling or upskilling workers to circumvent skills shortages, and reduce the hiring and training challenges.

| Electronic Assemblers, Fabricators, Inspectors and Testers | | | | | |
|---|--------|------------|-------|-----------|-------|
| Occupations | Skills | Technology | Tasks | Abilities | Total |
| Machine operators and inspectors, electrical apparatus manufacturing | 96% | 100% | 74% | 96% | 92% |
| Assemblers and inspectors, electrical appliance, apparatus & equipment manufacturing | 96% | 100% | 74% | 95% | 91% |
| Assemblers, fabricators and inspectors, industrial electrical motors and transformers | 94% | 100% | 75% | 94% | 91% |
| Mechanical assemblers and inspectors | 94% | 92% | 60% | 92% | 84% |
| Boat assemblers and inspectors | 92% | 92% | 61% | 91% | 84% |
| Motor vehicle assemblers, inspectors and testers | 93% | 92% | 58% | 91% | 83% |
| Other products assemblers, finishers and inspectors | 92% | 92% | 58% | 91% | 83% |
| Plastic products assemblers, finishers and inspectors | 92% | 92% | 56% | 93% | 83% |
| Inspectors and testers, mineral and metal processing | 91% | 92% | 54% | 91% | 82% |
| Inspectors and graders, textile, fabric, fur and leather products manufacturing | 91% | 92% | 54% | 91% | 82% |
| Machining tool operators | 88% | 63% | 34% | 84% | 67% |
| Metalworking and forging machine operators | 88% | 54% | 41% | 82% | 66% |
| Contractors and supervisors, machining and metal forming trades | 71% | 58% | 12% | 81% | 56% |
| Industrial painters, coaters and metal finishing process operators | 89% | 21% | 23% | 86% | 55% |
| Supervisors, electrical products manufacturing | 67% | 54% | 12% | 78% | 53% |

After scanning over 2,600 skills, technical competencies, tasks, and abilities of each of the 500 occupations as defined by the National Occupational Classification (NOC) system, a skills transferability matrix for electronic assemblers, fabricators, inspectors and testers is produced. In the matrix above, a high score is highlighted in green and indicates the high transferability potential of an attribute of an occupation with that of electronic assemblers and inspectors. Lower or no transferability areas are marked in red. Electronic assemblers and inspectors share high degrees of transferability to other assembly and inspection roles, ranging from electric and plastic products to complex machines such as boats and automobiles. Though transferability to areas outside assembly and inspection is limited, there is a trend of some transferability observed in roles with machine operation, such as metalworking and industrial painting. With some training, assemblers and inspectors may find it easier to transition into these roles. Some upward mobility is observed, with moderate transferability to product manufacturing and assembly supervision and inspection, but additional training and experience in supervision is likely required for these roles.

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