Comparisons of Job Characteristics

Focus Occupation: Electrical and Electronic Engineering Technicians (17-3023)
Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 75

Focus Occupation: Electrical and Electronic Engineering Technicians (17-3023)
Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Telecommunications	3.9	19.3	8.4	<<	Extensive education and/or training may be required
Computers and Electronics	8.4	15.4	15.8	0	Current knowledge level may be sufficient
Mechanical	6.8	12.4	11.6	0	Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 70

Focus Occupation: Electrical and Electronic Engineering Technicians (17-3023)
Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Troubleshooting	4.5	11.8	8.8	<<	Extensive development of skills in this area may be required
Quality Control Analysis	5.9	11.5	8.8	<<	Extensive development of skills in this area may be required
Operation Monitoring	6.6	11.4	9.4	<	A higher skill level may be required
Repairing	3.4	10.6	8.0	<<	Extensive development of skills in this area may be required
Equipment Maintenance	3.5	10.3	7.9	<<	Extensive development of skills in this area may be required
Operation and Control	5.4	10.0	6.8	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	9.2	7.0	<<	Extensive development of skills in this area may be required

Installation	1.7	7.7	3.3	<<	Extensive development of skills in this area may be required
Programming	2.2	5.2	3.6	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 74

Focus Occupation: Electrical and Electronic Engineering Technicians (17-3023)
Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Visual Color Discrimination	6.4	12.9	9.6	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	12.0	9.9	<	Some improvement in abilities may be required
Manual Dexterity	6.5	11.4	8.4	<<	Extensive improvement in abilities may be required
Visualization	7.5	11.0	9.8	<	Some improvement in abilities may be required
Gross Body Equilibrium	3.2	8.6	1.0	<<	Extensive improvement in abilities may be required
Gross Body Coordination	3.9	8.3	1.1	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	6.1	1.0	<<	Extensive improvement in abilities may be required
Night Vision	2.1	5.9	1.0	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 73

Focus Occupation: Electrical and Electronic Engineering Technicians (17-3023)
Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

Work Activities	Exclusivity of Activity
Calibrate or adjust electronic equipment or instruments to specification	67
Communicate technical information	4
Fabricate, assemble, or disassemble manufactured products by hand	11
Install electronic equipment, components, or systems	62
Install/connect electrical equipment to power circuit	57
Modify electrical or electronic equipment or products	74
Read blueprints	10
Read schematics	34

Read technical drawings	7
Repair electronic components, equipment, or systems	74
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Solder electrical or electronic connections or components	55
Understand detailed electronic design specifications	70
Understand service or repair manuals	40
Understand technical information for electronic repair work	76
Understand technical operating, service or repair manuals	6
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: n/a

Focus Occupation: Electrical and Electronic Engineering Technicians (17-3023)
Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.