



## Technical Job Family: **Equipment Technician Progression**

These generic job title summaries are intended to indicate the kinds of tasks and levels of work complexity that will be required of positions classified to any of these titles and are not intended to be construed as declaring the specific duties and responsibilities of any particular position. The use of particular expressions or illustrations describing functions within a specific job title does not exclude other duties of a similar kind and/or level of complexity. Positions are classified to a particular job title based upon the predominant level of expected work complexity.

### GENERIC JOB PROFILE SUMMARIES

<b>Equipment Technician II INDIVIDUAL CONTRIBUTOR</b>	<b>Equipment Technician III INDIVIDUAL CONTRIBUTOR</b>	<b>Equipment Technician IV INDIVIDUAL CONTRIBUTOR</b>	<b>Equipment Technician V INDIVIDUAL CONTRIBUTOR</b>
Perform maintenance and equipment and systems repair which may involve electrical, mechanical, electronic, woodworking, or welding tasks, as well as use of chemicals and computer programs.	Troubleshoot, repair, and modify various components, using hand tools, shop tools, chemicals, heavy equipment, and high-voltage equipment.	Maintain, repair, and perform preventative maintenance on support equipment (such as electrical, water, and vacuum systems, or computer hardware or networks) using hand, power, and machine shop tools.	Fabricate precision components and repair parts using a wide variety of machine shop equipment (lathes, mills, drill presses, punches, presses, grinders and tape- or computer-controlled instruments), working to extremely close tolerances.
	Service, lubricate and clean equipment on a regular basis.	Service, lubricate and clean equipment on a regular basis.	Advise proper cleaning techniques and setup to faculty, researchers, students and staff
	Assist with fabrication of parts according to design specifications.	Fabricate and refurbish equipment as needed; assist researchers with design of parts.	Partner with researchers on design and specification requirements; advise customer on various design options and create working drawings.
		Document project specifications as well as testing and production procedures.	Evaluate and document project specifications and provide recommendations to improve efficiency and quality of production.
		Coordinate day to day operations and maintenance of facility. Develop and maintain standard operating procedures.	Supervise small teams of technicians on special projects; schedule and expedite work orders.
Perform routine safety or troubleshooting inspections	Maintain and use various testing devices or inspection	Inspect, test, and modify complex systems, prototypes,	Evaluate equipment and develop short and long term

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using a variety of testing equipment for radiation and electrical and electronic circuits. Notify appropriate personnel if corrective action is needed.	equipment; monitor quality control of systems. Adjust standard equipment to ensure proper working order.	components and equipment to ensure proper working order. Adjust somewhat complex equipment to ensure proper working order.	repair and maintenance plans. Adjust complex equipment to ensure proper working order, coordinate service technicians when needed for significant repairs.
		Instruct users in areas of safety, procedure, or operation of a particular instrument or research area.	Instruct users in areas of safety, procedure, or operation of facility; ensure all users adhere to protocols and requirements complying with Environmental Health and Safety and OSHA mandates.
Transport equipment and structural components within the facility.	Construct special assemblies or rigging to install and move equipment.	Construct and assemble components for the facility.	Oversee equipment assembly and recommend solutions.
	Consult with research staff and graduate students about project technical needs and schedules.	Consult with research staff and graduate students about project technical needs and schedules.	Provide guidance and ensure customer requirements and schedules are met.
	Maintain parts inventory.	Maintain computerized inventory of parts, supplies and order history.	Utilizing computerized database, monitor inventory and usage of facility and equipment.
	Maintain material safety data sheet (MSDS).	Maintain material safety data sheet (MSDS) as well as records regarding condition and disposal of all equipment.	Possess knowledge of proper handling of precious metals or otherwise rare or expensive materials used for component and ensuring proper handling. Maintain training records.
	May operate forklifts and other heavy equipment.	May operate forklifts and other heavy equipment.	May operate forklifts and other heavy equipment.
			May write or manipulate computer programs for tape-controlled or computer numerically-controlled instruments to optimize output.
			Advise scientists on new technology to solve production problems and recommend purchase of specialized equipment and/or technology.

## JOB FACTOR PROFILE TABLE

FACTOR PROFILE	10342 EQUIPMENT TECHNICIAN II, BAND B	10343 EQUIPMENT TECHNICIAN III, BAND C	10344 EQUIPMENT TECHNICIAN IV, BAND D	10345 EQUIPMENT TECHNICIAN V, BAND E
<b>MINIMUM EDUCATION AND EXPERIENCE EQUIVALENCY</b>	High school Diploma or equivalent; up to 2 years experience	Trade/Vocational/Technical School or equivalent; up to 2 years experience	Trade/Vocational/Technical School or equivalent; more than 2 years, but less than 4 years experience	Trade/Vocational/Technical School or equivalent; more than 4 years, but less than 6 years experience
<b>IMPACT</b>	Extends beyond department	Extends beyond department	Extends beyond department	Extend beyond college/unit
<b>CONTACTS - INSIDE</b>	Assists others Cooperation of task completion Handle confidential information	Assists others Cooperation of task completion Handle confidential information	Coordinate activities Contribute to group projects	Provide guidance or instruction
<b>CONTACTS - OUTSIDE</b>	Limited contact	Straightforward business Provide factual information Handle confidential information	Straightforward business Provide factual information Handle confidential information	Conduct somewhat complex business Obtain involved information or provide detailed responses
<b>CONTACTS - STUDENTS</b>	Provide information or instruction on policies/procedures	Provide information or instruction on policies/procedures	Provide training and instruction on equipment, instruments, machinery, methods	Provide training and instruction on equipment, instruments, machinery, methods

<b>FACTOR PROFILE</b>	<b>10342 EQUIPMENT TECHNICIAN II, BAND B</b>	<b>10343 EQUIPMENT TECHNICIAN III, BAND C</b>	<b>10344 EQUIPMENT TECHNICIAN IV, BAND D</b>	<b>10345 EQUIPMENT TECHNICIAN V, BAND E</b>
<b>SUPERVISION</b>	None given	Students Temporaries On-the-job training	Group leader Full responsibility for students, temporaries, and employees who do similar work Includes recommendations for hiring and performance appraisals	Group leader Full responsibility for students, temporaries, and employees who do similar work Includes recommendations for hiring and performance appraisals
<b>COMPLEXITY</b>	Entire field tasks	Focus on entire field	Focus on entire field	Focus on entire field and generally on related areas
<b>LEVEL OF DECISION MAKING</b>	Makes routine decisions within limits prescribed by established policies or supervisor	Makes some decisions requiring various criteria within limits prescribed by established policies or supervisor	Makes some decisions requiring various criteria within limits prescribed by established policies or supervisor	Makes some decisions requiring various criteria within limits prescribed by established policies or supervisor
<b>FREEDOM OF ACTION</b>	General supervision Proceeds alone on regular tasks Refers questionable situations to supervisor	Very general supervision Resolve most problems Accomplish most tasks alone Keep supervisor informed of progress	Very general supervision Resolve most problems Accomplish most tasks alone Keep supervisor informed of progress	Little guidance Accomplish work activities Rarely referring situations to the supervisor
<b>SUPPORT SKILLS – WRITING</b>	Limited responsibility, OR is position's area of work	Provides standard response to inquiries	Provides standard response to inquiries	Provides non-standard response to inquiries
<b>SUPPORT SKILLS – COMPUTER</b>	Limited responsibility, OR is position's area of work	Use business or technical programs for data input or word processing to create documents or reports	Uses business or technical programs requiring sophistication of usage	Uses a variety of business or technical programs to complete information management or production tasks
<b>WORKING CONDITIONS - PHYSICAL</b>	Lift 20 to 50 lbs.	Lift 20 to 50 lbs.	Lift more than 50 lbs.	Lift more than 50 lbs.

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<b>WORKING CONDITIONS - VISUAL</b>	Close concentration and visual attention	Close concentration, visual attention and need for manual dexterity	Close concentration, visual attention and need for manual dexterity	High degree of concentration, requiring acute hand/eye coordination
<b>WORKING CONDITIONS - HAZARD</b>	Chemicals/substances requiring careful use. Handling of animals or mildly toxic plants. Equipment requiring close attention, including extensive computer use. Some use of protective devices.	Chemicals/substances requiring careful use. Handling of animals or mildly toxic plants. Equipment requiring close attention, including extensive computer use. Some use of protective devices.	Highly toxic chemicals / substances / plants. Sick or violent people, sick or dangerous animals. Equipment requiring extreme safety precautions. Protective devices necessary.	Highly toxic chemicals / substances / plants. Sick or violent people, sick or dangerous animals. Equipment requiring extreme safety precautions. Protective devices necessary.