



HEALTHIER WORKPLACES | A HEALTHIER WORLD

IH/OEHS Exposure Profiles in Manufacturing: Measuring, Analyzing and Controlling Instruments

NOTE: To search within this table, "Control - F" on your keyboard.

The data from the OSHA IMIS does not specify the job title or position description of the worker who was sampled. Therefore, the identification of the Exposed Personnel reflects the best judgement of the author of the profile.

Occupational health exposures don't include all of the maintenance, utility, helpers, and assistants that have not been evaluated by referenced sources.

Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Aeronautical/Nautical Systems	Maintenance Tech	Asbestos Fibers	29 CFR 1910.1001
Aeronautical/Nautical Systems	Welder/Brasier/Solder	Cadmium Fume (as Cd)	29 CFR 1910.1027
Aeronautical/Nautical Systems	Welder/Brasier/Solder	Carbon Monoxide	29 CFR 1910.1000
Aeronautical/Nautical Systems	Clean/Etch/Polisher	Diisobutyl Ketone	29 CFR 1910.1000
Aeronautical/Nautical Systems	Maintenance Tech	Diisobutyl Ketone	29 CFR 1910.1000
Aeronautical/Nautical Systems	Production Operator	Diisobutyl Ketone	29 CFR 1910.1000
Aeronautical/Nautical Systems	Clean/Etch/Polisher	Methyl Chloroform	29 CFR 1910.1000
Aeronautical/Nautical Systems	Maintenance Tech	Methyl Chloroform	29 CFR 1910.1000
Aeronautical/Nautical Systems	Production Operator	Methyl Chloroform	29 CFR 1910.1000
Aeronautical/Nautical Systems	Production Operator	Musculoskeletal Disorder – Cumulative Trauma	Section (5)(a)(1)
Aeronautical/Nautical Systems	Maintenance Tech	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Aeronautical/Nautical Systems	Ship/Receive Warehouse Worker	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Aeronautical/Nautical Systems	Maintenance Tech	Occupational Noise	29 CFR 1910.95
Aeronautical/Nautical Systems	Production Operator	Occupational Noise	29 CFR 1910.95
Aeronautical/Nautical Systems	Welder/Brasier/Solder	Ozone	29 CFR 1910.1000
Aeronautical/Nautical Systems	Clean/Etch/Polisher	Respirable Silica Dust	29 CFR 1910.1053
Aeronautical/Nautical Systems	Clean/Etch/Polisher	Tetrahydrofuran	29 CFR 1910.1000
Aeronautical/Nautical Systems	Maintenance Tech	Tetrahydrofuran	29 CFR 1910.1000
Aeronautical/Nautical Systems	Production Operator	Tetrahydrofuran	29 CFR 1910.1000
Aeronautical/Nautical Systems	Maintenance Tech	Ultraviolet Light	29 CFR 1910.97

IH/OEHS Exposure Profile**Manufacturing: Measuring, Analyzing and Controlling Instruments**

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Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Aeronautical/Nautical Systems	Welder/Brasier/Solder	Ultraviolet Light	29 CFR 1910.97
Aeronautical/Nautical Systems	Maintenance Tech	Xylene Isomers	29 CFR 1910.1000
Aeronautical/Nautical Systems	Production Operator	Xylene Isomers	29 CFR 1910.1000
Aeronautical/Nautical Systems	Spray Painter/Coater	Xylene Isomers	29 CFR 1910.1000
Dental Equipment and Supplies	Maintenance Tech	2-Butanone	29 CFR 1910.1000
Dental Equipment and Supplies	Production Operator	2-Butanone	29 CFR 1910.1000
Dental Equipment and Supplies	Spray Painter/Coater	2-Butanone	29 CFR 1910.1000
Dental Equipment and Supplies	Maintenance Tech	Ammonia	29 CFR 1910.1000
Dental Equipment and Supplies	Production Operator	Ammonia	29 CFR 1910.1000
Dental Equipment and Supplies	Welder/Brasier/Solder	Carbon Monoxide	29 CFR 1910.1000
Dental Equipment and Supplies	Welder/Brasier/Solder	Chromium, Metal And Insoluble Salts	29 CFR 1910.1000
Dental Equipment and Supplies	Clean/Etch/Polisher	Hexone	29 CFR 1910.1000
Dental Equipment and Supplies	Maintenance Tech	Hexone	29 CFR 1910.1000
Dental Equipment and Supplies	Production Operator	Hexone	29 CFR 1910.1000
Dental Equipment and Supplies	Welder/Brasier/Solder	Iron Oxide Fume	29 CFR 1910.1000
Dental Equipment and Supplies	Clean/Etch/Polisher	Methyl Chloroform	29 CFR 1910.1000
Dental Equipment and Supplies	Maintenance Tech	Methyl Chloroform	29 CFR 1910.1000
Dental Equipment and Supplies	Production Operator	Methyl Chloroform	29 CFR 1910.1000
Dental Equipment and Supplies	Maintenance Tech	Methyl Methacrylate	Section (5)(a)(1)
Dental Equipment and Supplies	Production Operator	Methyl Methacrylate	Section (5)(a)(1)
Dental Equipment and Supplies	Clean/Etch/Polisher	Methylene Chloride	29 CFR 1910.1053
Dental Equipment and Supplies	Maintenance Tech	Methylene Chloride	29 CFR 1910.1053
Dental Equipment and Supplies	Production Operator	Methylene Chloride	29 CFR 1910.1053
Dental Equipment and Supplies	Production Operator	Musculoskeletal Disorder – Cumulative Trauma	Section (5)(a)(1)

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Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Dental Equipment and Supplies	Maintenance Tech	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Dental Equipment and Supplies	Ship/Receive Warehouse Worker	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Dental Equipment and Supplies	Maintenance Tech	Occupational Noise	29 CFR 1910.95
Dental Equipment and Supplies	Production Operator	Occupational Noise	29 CFR 1910.95
Dental Equipment and Supplies	Maintenance Tech	Oil Mist, Mineral	29 CFR 1910.1000
Dental Equipment and Supplies	Production Operator	Oil Mist, Mineral	29 CFR 1910.1000
Dental Equipment and Supplies	Welder/Brasier/Solder	Ozone	29 CFR 1910.1000
Dental Equipment and Supplies	Production Operator	Respirable Dust	29 CFR 1910.1000
Dental Equipment and Supplies	Abrasive Blaster	Respirable Silica Dust	29 CFR 1910.1053
Dental Equipment and Supplies	Clean/Etch/Polisher	Toluene	29 CFR 1910.1000
Dental Equipment and Supplies	Maintenance Tech	Toluene	29 CFR 1910.1000
Dental Equipment and Supplies	Production Operator	Toluene	29 CFR 1910.1000
Dental Equipment and Supplies	Production Operator	Total Dust	29 CFR 1910.1000
Dental Equipment and Supplies	Abrasive Blaster	Total Silica Dust	29 CFR 1910.1000
Dental Equipment and Supplies	Maintenance Tech	Ultraviolet Light	29 CFR 1910.97
Dental Equipment and Supplies	Welder/Brasier/Solder	Ultraviolet Light	29 CFR 1910.97
Electromedical & Therapeutics	Maintenance Tech	Acrylic Acid	29 CFR 1910.1000
Electromedical & Therapeutics	Production Operator	Acrylic Acid	29 CFR 1910.1000
Electromedical & Therapeutics	Welder/Brasier/Solder	Carbon Monoxide	29 CFR 1910.1000
Electromedical & Therapeutics	Welder/Brasier/Solder	Iron Oxide Fume	29 CFR 1910.1000
Electromedical & Therapeutics	Production Operator	Musculoskeletal Disorder – Cumulative Trauma	Section (5)(a)(1)
Electromedical & Therapeutics	Maintenance Tech	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Electromedical & Therapeutics	Ship/Receive Warehouse Worker	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Electromedical & Therapeutics	Maintenance Tech	Occupational Noise	29 CFR 1910.95
Electromedical & Therapeutics	Production Operator	Occupational Noise	29 CFR 1910.95
Electromedical & Therapeutics	Welder/Brasier/Solder	Ozone	29 CFR 1910.1000
Electromedical & Therapeutics	Maintenance Tech	Ultraviolet Light	29 CFR 1910.97

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Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Electromedical & Therapeutics	Welder/Brasier/Solder	Ultraviolet Light	29 CFR 1910.97
Equipment/Appliance Control	Maintenance Tech	2-Butanone	29 CFR 1910.1000
Equipment/Appliance Control	Production Operator	2-Butanone	29 CFR 1910.1000
Equipment/Appliance Control	Spray Painter/Coater	2-Butanone	29 CFR 1910.1000
Equipment/Appliance Control	Maintenance Tech	Asbestos Fibers	29 CFR 1910.1001
Equipment/Appliance Control	Welder/Brasier/Solder	Carbon Monoxide	29 CFR 1910.1000
Equipment/Appliance Control	Clean/Etch/Polisher	Hexone	29 CFR 1910.1000
Equipment/Appliance Control	Maintenance Tech	Hexone	29 CFR 1910.1000
Equipment/Appliance Control	Production Operator	Hexone	29 CFR 1910.1000
Equipment/Appliance Control	Welder/Brasier/Solder	Iron Oxide Fume	29 CFR 1910.1000
Equipment/Appliance Control	Clean/Etch/Polisher	Isopropyl Alcohol	29 CFR 1910.1000
Equipment/Appliance Control	Maintenance Tech	Isopropyl Alcohol	29 CFR 1910.1000
Equipment/Appliance Control	Production Operator	Isopropyl Alcohol	29 CFR 1910.1000
Equipment/Appliance Control	Production Operator	Mercury Vapor (as Hg)	29 CFR 1910.1000
Equipment/Appliance Control	Production Operator	Musculoskeletal Disorder – Cumulative Trauma	Section (5)(a)(1)
Equipment/Appliance Control	Maintenance Tech	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Equipment/Appliance Control	Ship/Receive Warehouse Worker	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Equipment/Appliance Control	Maintenance Tech	Occupational Noise	29 CFR 1910.95
Equipment/Appliance Control	Production Operator	Occupational Noise	29 CFR 1910.95
Equipment/Appliance Control	Welder/Brasier/Solder	Ozone	29 CFR 1910.1000
Equipment/Appliance Control	Clean/Etch/Polisher	Toluene	29 CFR 1910.1000
Equipment/Appliance Control	Maintenance Tech	Toluene	29 CFR 1910.1000
Equipment/Appliance Control	Production Operator	Toluene	29 CFR 1910.1000
Equipment/Appliance Control	Maintenance Tech	Ultraviolet Light	29 CFR 1910.97
Equipment/Appliance Control	Welder/Brasier/Solder	Ultraviolet Light	29 CFR 1910.97
Equipment/Appliance Control	Welder/Brasier/Solder	Zinc Oxide Fume	29 CFR 1910.1000
Lab Analytical Instruments	Production Operator	Musculoskeletal Disorder – Cumulative Trauma	Section (5)(a)(1)
Lab Analytical Instruments	Maintenance Tech	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Lab Analytical Instruments	Ship/Receive Warehouse Worker	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Lab Analytical Instruments	Maintenance Tech	Occupational Noise	29 CFR 1910.95
Lab Analytical Instruments	Production Operator	Occupational Noise	29 CFR 1910.95
Lab Analytical Instruments	Maintenance Tech	Xylene Isomers	29 CFR 1910.1000
Lab Analytical Instruments	Production Operator	Xylene Isomers	29 CFR 1910.1000
Lab Analytical Instruments	Spray Painter/Coater	Xylene Isomers	29 CFR 1910.1000
Lab Apparatus and Furniture	Welder/Brasier/Solder	Cadmium Fume (as Cd)	29 CFR 1910.1027

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Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Lab Apparatus and Furniture	Welder/Brasier/Solder	Carbon Monoxide	29 CFR 1910.1000
Lab Apparatus and Furniture	Welder/Brasier/Solder	Chromium, Metal and Insoluble Salts	29 CFR 1910.1000
Lab Apparatus and Furniture	Welder/Brasier/Solder	Inorganic Arsenic (as As)	29 CFR 1910.1018
Lab Apparatus and Furniture	Welder/Brasier/Solder	Iron Oxide Fume	29 CFR 1910.1000
Lab Apparatus and Furniture	Welder/Brasier/Solder	Iron Oxide Fume	29 CFR 1910.1000
Lab Apparatus and Furniture	Clean/Etch/Polisher	Methylene Chloride	29 CFR 1910.1053
Lab Apparatus and Furniture	Maintenance Tech	Methylene Chloride	29 CFR 1910.1053
Lab Apparatus and Furniture	Production Operator	Methylene Chloride	29 CFR 1910.1053
Lab Apparatus and Furniture	Production Operator	Musculoskeletal Disorder – Cumulative Trauma	Section (5)(a)(1)
Lab Apparatus and Furniture	Maintenance Tech	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Lab Apparatus and Furniture	Ship/Receive Warehouse Worker	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Lab Apparatus and Furniture	Maintenance Tech	Occupational Noise	29 CFR 1910.95
Lab Apparatus and Furniture	Production Operator	Occupational Noise	29 CFR 1910.95
Lab Apparatus and Furniture	Welder/Brasier/Solder	Ozone	29 CFR 1910.1000
Lab Apparatus and Furniture	Abrasive Blaster	Respirable Silica Dust	29 CFR 1910.1053
Lab Apparatus and Furniture	Clean/Etch/Polisher	Respirable Silica Dust	29 CFR 1910.1053
Lab Apparatus and Furniture	Clean/Etch/Polisher	Toluene	29 CFR 1910.1000
Lab Apparatus and Furniture	Maintenance Tech	Toluene	29 CFR 1910.1000
Lab Apparatus and Furniture	Production Operator	Toluene	29 CFR 1910.1000
Lab Apparatus and Furniture	Maintenance Tech	Ultraviolet Light	29 CFR 1910.97
Lab Apparatus and Furniture	Welder/Brasier/Solder	Ultraviolet Light	29 CFR 1910.97
Lab Apparatus and Furniture	Welder/Brasier/Solder	Zinc Oxide Fume	29 CFR 1910.1000
Measure, Display, Control Prod	Maintenance Tech	2-Butanone	29 CFR 1910.1000
Measure, Display, Control Prod	Production Operator	2-Butanone	29 CFR 1910.1000
Measure, Display, Control Prod	Spray Painter/Coater	2-Butanone	29 CFR 1910.1000
Measure, Display, Control Prod	Welder/Brasier/Solder	Aluminum Oxide	29 CFR 1910.1000
Measure, Display, Control Prod	Maintenance Tech	Asbestos Fibers	29 CFR 1910.1001
Measure, Display, Control Prod	Welder/Brasier/Solder	Cadmium Fume (as Cd)	29 CFR 1910.1027
Measure, Display, Control Prod	Welder/Brasier/Solder	Carbon Monoxide	29 CFR 1910.1000
Measure, Display, Control Prod	Sander and Buffer	Chromium VI	29 CFR 1910.1026
Measure, Display, Control Prod	Welder/Brasier/Solder	Chromium VI	29 CFR 1910.1026
Measure, Display, Control Prod	Manufacturing Tech	Chromium, Metal and Insoluble Salts	29 CFR 1910.1000
Measure, Display, Control Prod	Welder/Brasier/Solder	Chromium, Metal and Insoluble Salts	29 CFR 1910.1000
Measure, Display, Control Prod	Sander and Buffer	Copper Dust (as Cu)	29 CFR 1910.1000
Measure, Display, Control Prod	Manufacturing Tech	Copper Fume (as Cu)	29 CFR 1910.1000

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Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Measure, Display, Control Prod	Welder/Brasier/Solder	Copper Fume (as Cu)	29 CFR 1910.1000
Measure, Display, Control Prod	Clean/Etch/Polisher	Ethyl Chloride	29 CFR 1910.1000
Measure, Display, Control Prod	Maintenance Tech	Ethyl Chloride	29 CFR 1910.1000
Measure, Display, Control Prod	Production Operator	Ethyl Chloride	29 CFR 1910.1000
Measure, Display, Control Prod	Maintenance Tech	Ethyl Ether	29 CFR 1910.1000
Measure, Display, Control Prod	Production Operator	Ethyl Ether	29 CFR 1910.1000
Measure, Display, Control Prod	Welder/Brasier/Solder	Fluorides (as F)	29 CFR 1910.1000
Measure, Display, Control Prod	Welder/Brasier/Solder	Inorganic Lead (as Pb)	29 CFR 1910.1025
Measure, Display, Control Prod	Manufacturing Tech	Iron Oxide Fume	29 CFR 1910.1000
Measure, Display, Control Prod	Sander and Buffer	Iron Oxide Fume	29 CFR 1910.1000
Measure, Display, Control Prod	Welder/Brasier/Solder	Iron Oxide Fume	29 CFR 1910.1000
Measure, Display, Control Prod	Sander and Buffer	Magnesium Dust	29 CFR 1910.1000
Measure, Display, Control Prod	Manufacturing Tech	Magnesium Fume	29 CFR 1910.1000
Measure, Display, Control Prod	Welder/Brasier/Solder	Magnesium Fume	29 CFR 1910.1000
Measure, Display, Control Prod	Instrument Assembly	Mercury Vapor (as Hg)	29 CFR 1910.1000
Measure, Display, Control Prod	Pole Maker	Mercury Vapor (as Hg)	29 CFR 1910.1000
Measure, Display, Control Prod	Production Operator	Mercury Vapor (as Hg)	29 CFR 1910.1000
Measure, Display, Control Prod	Welder/Brasier/Solder	Mercury Vapor (as Hg)	29 CFR 1910.1000
Measure, Display, Control Prod	Production Operator	Musculoskeletal Disorder – Cumulative Trauma	Section (5)(a)(1)
Measure, Display, Control Prod	Maintenance Tech	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Measure, Display, Control Prod	Ship/Receive Warehouse Worker	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Measure, Display, Control Prod	Sander and Buffer	Nickel, Metal, and Insoluble Compounds	29 CFR 1910.1000
Measure, Display, Control Prod	Welder/Brasier/Solder	Nickel, Metal, and Insoluble Compounds	29 CFR 1910.1000
Measure, Display, Control Prod	Welder/Brasier/Solder	Ozone	29 CFR 1910.1000
Measure, Display, Control Prod	Welder/Brasier/Solder	Silver	29 CFR 1910.1000
Measure, Display, Control Prod	Buffer Room Worker	Sodium Azide	Section (5)(a)(1)
Measure, Display, Control Prod	Maintenance Tech	Ultraviolet Light	29 CFR 1910.97
Measure, Display, Control Prod	Welder/Brasier/Solder	Ultraviolet Light	29 CFR 1910.97
Measure, Display, Control Prod	Sander and Buffer	Zinc Oxide Dust	29 CFR 1910.1000
Measure/Test Electrical Signals	Welder/Brasier/Solder	Carbon Monoxide	29 CFR 1910.1000
Measure/Test Electrical Signals	Clean/Etch/Polisher	Isopropyl Alcohol	29 CFR 1910.1000
Measure/Test Electrical Signals	Maintenance Tech	Isopropyl Alcohol	29 CFR 1910.1000
Measure/Test Electrical Signals	Production Operator	Isopropyl Alcohol	29 CFR 1910.1000

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Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Measure/Test Electrical Signals	Production Operator	Musculoskeletal Disorder – Cumulative Trauma	Section (5)(a)(1)
Measure/Test Electrical Signals	Maintenance Tech	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Measure/Test Electrical Signals	Ship/Receive Warehouse Worker	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Measure/Test Electrical Signals	Maintenance Tech	Occupational Noise	29 CFR 1910.95
Measure/Test Electrical Signals	Production Operator	Occupational Noise	29 CFR 1910.95
Measure/Test Electrical Signals	Welder/Brasier/Solder	Ozone	29 CFR 1910.1000
Measure/Test Electrical Signals	Maintenance Tech	Phenol	29 CFR 1910.1000
Measure/Test Electrical Signals	Production Operator	Phenol	29 CFR 1910.1000
Measure/Test Electrical Signals	Abrasive Blaster	Respirable Silica Dust	29 CFR 1910.1053
Measure/Test Electrical Signals	Clean/Etch/Polisher	Respirable Silica Dust	29 CFR 1910.1053
Measure/Test Electrical Signals	Maintenance Tech	Total Dust	29 CFR 1910.1000
Measure/Test Electrical Signals	Clean/Etch/Polisher	Trichloroethylene	29 CFR 1910.1000
Measure/Test Electrical Signals	Maintenance Tech	Trichloroethylene	29 CFR 1910.1000
Measure/Test Electrical Signals	Production Operator	Trichloroethylene	29 CFR 1910.1000
Measure/Test Electrical Signals	Maintenance Tech	Ultraviolet Light	29 CFR 1910.97
Measure/Test Electrical Signals	Welder/Brasier/Solder	Ultraviolet Light	29 CFR 1910.97
Measure/Test Electrical Signals	Manufacturing Tech	Zinc Oxide Fume	29 CFR 1910.1000
Measure/Test Electrical Signals	Welder/Brasier/Solder	Zinc Oxide Fume	29 CFR 1910.1000
Ophthalmic Goods	Welder/Brasier/Solder	Cadmium Fume (as Cd)	29 CFR 1910.1027
Ophthalmic Goods	Welder/Brasier/Solder	Carbon Monoxide	29 CFR 1910.1000
Ophthalmic Goods	Welder/Brasier/Solder	Copper Fume (as Cu)	29 CFR 1910.1000
Ophthalmic Goods	Welder/Brasier/Solder	Inorganic Lead (as Pb)	29 CFR 1910.1025
Ophthalmic Goods	Maintenance Tech	Isobutyl Alcohol	29 CFR 1910.1000
Ophthalmic Goods	Production Operator	Isobutyl Alcohol	29 CFR 1910.1000
Ophthalmic Goods	Spray Painter/Coater	Isobutyl Alcohol	29 CFR 1910.1000
Ophthalmic Goods	Clean/Etch/Polisher	Isopropyl Alcohol	29 CFR 1910.1000
Ophthalmic Goods	Maintenance Tech	Isopropyl Alcohol	29 CFR 1910.1000
Ophthalmic Goods	Production Operator	Isopropyl Alcohol	29 CFR 1910.1000

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Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Ophthalmic Goods	Clean/Etch/Polisher	Methyl Chloroform	29 CFR 1910.1000
Ophthalmic Goods	Maintenance Tech	Methyl Chloroform	29 CFR 1910.1000
Ophthalmic Goods	Production Operator	Methyl Chloroform	29 CFR 1910.1000
Ophthalmic Goods	Maintenance Tech	Methyl Methacrylate	Section (5)(a)(1)
Ophthalmic Goods	Production Operator	Methyl Methacrylate	Section (5)(a)(1)
Ophthalmic Goods	Clean/Etch/Polisher	Methylene Chloride	29 CFR 1910.1053
Ophthalmic Goods	Maintenance Tech	Methylene Chloride	29 CFR 1910.1053
Ophthalmic Goods	Production Operator	Methylene Chloride	29 CFR 1910.1053
Ophthalmic Goods	Welder/Brasier/Solder	Molybdenum (as Mo), Insoluble Compounds	29 CFR 1910.1000
Ophthalmic Goods	Production Operator	Musculoskeletal Disorder – Cumulative Trauma	Section (5)(a)(1)
Ophthalmic Goods	Maintenance Tech	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Ophthalmic Goods	Ship/Receive Warehouse Worker	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Ophthalmic Goods	Maintenance Tech	Occupational Noise	29 CFR 1910.95
Ophthalmic Goods	Production Operator	Occupational Noise	29 CFR 1910.95
Ophthalmic Goods	Welder/Brasier/Solder	Ozone	29 CFR 1910.1000
Ophthalmic Goods	Abrasive Blaster	Respirable Silica Dust	29 CFR 1910.1053
Ophthalmic Goods	Abrasive Blaster	Total Silica Dust	29 CFR 1910.1000
Ophthalmic Goods	Maintenance Tech	Ultraviolet Light	29 CFR 1910.97
Ophthalmic Goods	Welder/Brasier/Solder	Ultraviolet Light	29 CFR 1910.97
Ophthalmic Goods	Welder/Brasier/Solder	Zinc Oxide Fume	29 CFR 1910.1000
Optical Instruments and Lenses	Maintenance Tech	2-Butanone	29 CFR 1910.1000
Optical Instruments and Lenses	Production Operator	2-Butanone	29 CFR 1910.1000
Optical Instruments and Lenses	Spray Painter/Coater	2-Butanone	29 CFR 1910.1000
Optical Instruments and Lenses	Clean/Etch/Polisher	Acetone	29 CFR 1910.1000
Optical Instruments and Lenses	Maintenance Tech	Acetone	29 CFR 1910.1000
Optical Instruments and Lenses	Production Operator	Acetone	29 CFR 1910.1000
Optical Instruments and Lenses	Welder/Brasier/Solder	Cadmium Fume (as Cd)	29 CFR 1910.1027
Optical Instruments and Lenses	Welder/Brasier/Solder	Carbon Monoxide	29 CFR 1910.1000
Optical Instruments and Lenses	Welder/Brasier/Solder	Copper Fume (as Cu)	29 CFR 1910.1000
Optical Instruments and Lenses	Clean/Etch/Polisher	Isopropyl Alcohol	29 CFR 1910.1000

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Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Optical Instruments and Lenses	Maintenance Tech	Isopropyl Alcohol	29 CFR 1910.1000
Optical Instruments and Lenses	Production Operator	Isopropyl Alcohol	29 CFR 1910.1000
Optical Instruments and Lenses	Production Operator	Musculoskeletal Disorder – Cumulative Trauma	Section (5)(a)(1)
Optical Instruments and Lenses	Maintenance Tech	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Optical Instruments and Lenses	Ship/Receive Warehouse Worker	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Optical Instruments and Lenses	Clean/Etch/Polisher	N-Hexane	29 CFR 1910.1000
Optical Instruments and Lenses	Maintenance Tech	N-Hexane	29 CFR 1910.1000
Optical Instruments and Lenses	Production Operator	N-Hexane	29 CFR 1910.1000
Optical Instruments and Lenses	Maintenance Tech	Occupational Noise	29 CFR 1910.95
Optical Instruments and Lenses	Production Operator	Occupational Noise	29 CFR 1910.95
Optical Instruments and Lenses	Welder/Brasier/Solder	Ozone	29 CFR 1910.1000
Optical Instruments and Lenses	Clean/Etch/Polisher	Toluene	29 CFR 1910.1000
Optical Instruments and Lenses	Maintenance Tech	Toluene	29 CFR 1910.1000
Optical Instruments and Lenses	Production Operator	Toluene	29 CFR 1910.1000
Optical Instruments and Lenses	Maintenance Tech	Ultraviolet Light	29 CFR 1910.97
Optical Instruments and Lenses	Welder/Brasier/Solder	Ultraviolet Light	29 CFR 1910.97
Orthopedic and Surgical Supply	Maintenance Tech	1,1-Dichloro-1-Fluoroethane	Section (5)(a)(1)
Orthopedic and Surgical Supply	Maintenance Tech	1,2-Dichloroethane	29 CFR 1910.1000
Orthopedic and Surgical Supply	Production Operator	1,2-Dichloroethane	29 CFR 1910.1000
Orthopedic and Surgical Supply	Maintenance Tech	2-Butanone	29 CFR 1910.1000
Orthopedic and Surgical Supply	Production Operator	2-Butanone	29 CFR 1910.1000
Orthopedic and Surgical Supply	Spray Painter/Coater	2-Butanone	29 CFR 1910.1000
Orthopedic and Surgical Supply	Clean/Etch/Polisher	Acetone	29 CFR 1910.1000
Orthopedic and Surgical Supply	Maintenance Tech	Acetone	29 CFR 1910.1000

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Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Orthopedic and Surgical Supply	Production Operator	Acetone	29 CFR 1910.1000
Orthopedic and Surgical Supply	Production Operator	Barium Sulfate	29 CFR 1910.1000
Orthopedic and Surgical Supply	Welder/Brasier/Solder	Carbon Monoxide	29 CFR 1910.1000
Orthopedic and Surgical Supply	Maintenance Tech	Cyclohexanone	29 CFR 1910.1000
Orthopedic and Surgical Supply	Production Operator	Cyclohexanone	29 CFR 1910.1000
Orthopedic and Surgical Supply	Maintenance Tech	Ethylene Oxide	29 CFR 1910.1047
Orthopedic and Surgical Supply	Production Operator	Ethylene Oxide	29 CFR 1910.1047
Orthopedic and Surgical Supply	Welder/Brasier/Solder	Iron Oxide Fume	29 CFR 1910.1000
Orthopedic and Surgical Supply	Clean/Etch/Polisher	Isopropyl Alcohol	29 CFR 1910.1000
Orthopedic and Surgical Supply	Maintenance Tech	Isopropyl Alcohol	29 CFR 1910.1000
Orthopedic and Surgical Supply	Production Operator	Isopropyl Alcohol	29 CFR 1910.1000
Orthopedic and Surgical Supply	Clean/Etch/Polisher	Methyl Alcohol	29 CFR 1910.1000
Orthopedic and Surgical Supply	Maintenance Tech	Methyl Alcohol	29 CFR 1910.1000
Orthopedic and Surgical Supply	Production Operator	Methyl Alcohol	29 CFR 1910.1000
Orthopedic and Surgical Supply	Maintenance Tech	Methyl Methacrylate	Section (5)(a)(1)
Orthopedic and Surgical Supply	Production Operator	Methyl Methacrylate	Section (5)(a)(1)
Orthopedic and Surgical Supply	Production Operator	Musculoskeletal Disorder – Cumulative Trauma	Section (5)(a)(1)
Orthopedic and Surgical Supply	Maintenance Tech	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Orthopedic and Surgical Supply	Ship/Receive Warehouse Worker	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Orthopedic and Surgical Supply	Clean/Etch/Polisher	N-Hexane	29 CFR 1910.1000
Orthopedic and Surgical Supply	Maintenance Tech	N-Hexane	29 CFR 1910.1000
Orthopedic and Surgical Supply	Production Operator	N-Hexane	29 CFR 1910.1000
Orthopedic and Surgical Supply	Maintenance Tech	Occupational Noise	29 CFR 1910.95
Orthopedic and Surgical Supply	Production Operator	Occupational Noise	29 CFR 1910.95

IH/OEHS Exposure Profile**Manufacturing: Measuring, Analyzing and Controlling Instruments**

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Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Orthopedic and Surgical Supply	Welder/Brasier/Solder	Ozone	29 CFR 1910.1000
Orthopedic and Surgical Supply	Production Operator	Respirable Dust	29 CFR 1910.1000
Orthopedic and Surgical Supply	Abrasive Blaster	Respirable Silica Dust	29 CFR 1910.1053
Orthopedic and Surgical Supply	Maintenance Tech	Styrene	29 CFR 1910.1000
Orthopedic and Surgical Supply	Production Operator	Styrene	29 CFR 1910.1000
Orthopedic and Surgical Supply	Production Operator	Titanium Dioxide	29 CFR 1910.1000
Orthopedic and Surgical Supply	Clean/Etch/Polisher	Toluene	29 CFR 1910.1000
Orthopedic and Surgical Supply	Maintenance Tech	Toluene	29 CFR 1910.1000
Orthopedic and Surgical Supply	Production Operator	Toluene	29 CFR 1910.1000
Orthopedic and Surgical Supply	Production Operator	Total Dust	29 CFR 1910.1000
Orthopedic and Surgical Supply	Abrasive Blaster	Total Silica Dust	29 CFR 1910.1000
Orthopedic and Surgical Supply	Clean/Etch/Polisher	Trichloroethylene	29 CFR 1910.1000
Orthopedic and Surgical Supply	Maintenance Tech	Trichloroethylene	29 CFR 1910.1000
Orthopedic and Surgical Supply	Production Operator	Trichloroethylene	29 CFR 1910.1000
Orthopedic and Surgical Supply	Maintenance Tech	Ultraviolet Light	29 CFR 1910.97
Orthopedic and Surgical Supply	Welder/Brasier/Solder	Ultraviolet Light	29 CFR 1910.97
Orthopedic and Surgical Supply	Maintenance Tech	Xylene Isomers	29 CFR 1910.1000
Orthopedic and Surgical Supply	Production Operator	Xylene Isomers	29 CFR 1910.1000
Orthopedic and Surgical Supply	Spray Painter/Coater	Xylene Isomers	29 CFR 1910.1000
Other Measure/Control Device	Maintenance Tech	2-Butanone	29 CFR 1910.1000
Other Measure/Control Device	Production Operator	2-Butanone	29 CFR 1910.1000
Other Measure/Control Device	Welder/Brasier/Solder	Inorganic Lead (as Pb)	29 CFR 1910.1025
Other Measure/Control Device	Maintenance Tech	Iodine	29 CFR 1910.1000
Other Measure/Control Device	Production Operator	Iodine	29 CFR 1910.1000
Other Measure/Control Device	Clean/Etch/Polisher	Isopropyl Alcohol	29 CFR 1910.1000
Other Measure/Control Device	Maintenance Tech	Isopropyl Alcohol	29 CFR 1910.1000
Other Measure/Control Device	Production Operator	Isopropyl Alcohol	29 CFR 1910.1000

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Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Other Measure/Control Device	Production Operator	Mercury Vapor (as Hg)	29 CFR 1910.1000
Other Measure/Control Device	Clean/Etch/Polisher	Methyl Chloroform	29 CFR 1910.1000
Other Measure/Control Device	Maintenance Tech	Methyl Chloroform	29 CFR 1910.1000
Other Measure/Control Device	Production Operator	Methyl Chloroform	29 CFR 1910.1000
Other Measure/Control Device	Clean/Etch/Polisher	Methylene Chloride	29 CFR 1910.1053
Other Measure/Control Device	Maintenance Tech	Methylene Chloride	29 CFR 1910.1053
Other Measure/Control Device	Production Operator	Methylene Chloride	29 CFR 1910.1053
Other Measure/Control Device	Maintenance Tech	Xylene Isomers	29 CFR 1910.1000
Other Measure/Control Device	Production Operator	Xylene Isomers	29 CFR 1910.1000
Other Measure/Control Device	Spray Painter/Coater	Xylene Isomers	29 CFR 1910.1000
Photograph Equipment/ Supply	Maintenance Tech	Acetic Acid	29 CFR 1910.1000
Photograph Equipment/ Supply	Production Operator	Acetic Acid	29 CFR 1910.1000
Photograph Equipment/ Supply	Maintenance Tech	Asbestos Fibers	29 CFR 1910.1001
Photograph Equipment/ Supply	Welder/Brasier/Solder	Carbon Monoxide	29 CFR 1910.1000
Photograph Equipment/ Supply	Maintenance Tech	Ethylenediamine	29 CFR 1910.1000
Photograph Equipment/ Supply	Production Operator	Ethylenediamine	29 CFR 1910.1000
Photograph Equipment/ Supply	Maintenance Tech	Formaldehyde	29 CFR 1910.1048
Photograph Equipment/ Supply	Production Operator	Formaldehyde	29 CFR 1910.1048
Photograph Equipment/ Supply	Welder/Brasier/Solder	Inorganic Lead (as Pb)	29 CFR 1910.1025
Photograph Equipment/ Supply	Production Operator	Musculoskeletal Disorder – Cumulative Trauma	Section (5)(a)(1)
Photograph Equipment/ Supply	Maintenance Tech	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Photograph Equipment/ Supply	Ship/Receive Warehouse Worker	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Photograph Equipment/ Supply	Maintenance Tech	Occupational Noise	29 CFR 1910.95
Photograph Equipment/ Supply	Production Operator	Occupational Noise	29 CFR 1910.95
Photograph Equipment/ Supply	Welder/Brasier/Solder	Ozone	29 CFR 1910.1000
Photograph Equipment/ Supply	Production Operator	Respirable Dust	29 CFR 1910.1000
Photograph Equipment/ Supply	Maintenance Tech	Toluene	29 CFR 1910.1000
Photograph Equipment/ Supply	Production Operator	Toluene	29 CFR 1910.1000

IH/OEHS Exposure Profile**Manufacturing: Measuring, Analyzing and Controlling Instruments**

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Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Photograph Equipment/Supply	Spray Painter/Coater	Toluene	29 CFR 1910.1000
Photograph Equipment/Supply	Production Operator	Total Dust	29 CFR 1910.1000
Photograph Equipment/Supply	Maintenance Tech	Ultraviolet Light	29 CFR 1910.97
Photograph Equipment/Supply	Welder/Brasier/Solder	Ultraviolet Light	29 CFR 1910.97
Photograph Equipment/Supply	Maintenance Tech	Xylene Isomers	29 CFR 1910.1000
Photograph Equipment/Supply	Production Operator	Xylene Isomers	29 CFR 1910.1000
Photograph Equipment/Supply	Spray Painter/Coater	Xylene Isomers	29 CFR 1910.1000
Photograph Equipment/Supply	Welder/Brasier/Solder	Zinc Oxide Fume	29 CFR 1910.1000
Surgical & Medical Instruments	Maintenance Tech	1,2-Dichloroethane	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	1,2-Dichloroethane	29 CFR 1910.1000
Surgical & Medical Instruments	Maintenance Tech	Acetic Acid	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	Acetic Acid	29 CFR 1910.1000
Surgical & Medical Instruments	Clean/Etch/Polisher	Acetone	29 CFR 1910.1000
Surgical & Medical Instruments	Maintenance Tech	Acetone	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	Acetone	29 CFR 1910.1000
Surgical & Medical Instruments	Maintenance Tech	Ammonia	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	Ammonia	29 CFR 1910.1000
Surgical & Medical Instruments	Welder/Brasier/Solder	Carbon Monoxide	29 CFR 1910.1000
Surgical & Medical Instruments	Welder/Brasier/Solder	Copper Fume (as Cu)	29 CFR 1910.1000
Surgical & Medical Instruments	Maintenance Tech	Cyclohexanone	29 CFR 1910.1000
Surgical & Medical Instruments	Maintenance Tech	Cyclohexanone	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	Cyclohexanone	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	Cyclohexanone	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	Desflurane	Section (5)(a)(1)

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Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Surgical & Medical Instruments	Maintenance Tech	Dichlorodifluoro-methane (R-12)	Section (5)(a)(1)
Surgical & Medical Instruments	Maintenance Tech	Dimethyl Acetamide	Section (5)(a)(1)
Surgical & Medical Instruments	Production Operator	Dimethyl Acetamide	Section (5)(a)(1)
Surgical & Medical Instruments	Maintenance Tech	Ethyl Acetate	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	Ethyl Acetate	29 CFR 1910.1000
Surgical & Medical Instruments	Spray Painter/Coater	Ethyl Acetate	29 CFR 1910.1000
Surgical & Medical Instruments	Clean/Etch/Polisher	Ethyl Alcohol	29 CFR 1910.1000
Surgical & Medical Instruments	Maintenance Tech	Ethyl Alcohol	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	Ethyl Alcohol	29 CFR 1910.1000
Surgical & Medical Instruments	Maintenance Tech	Ethylene Oxide	29 CFR 1910.1047
Surgical & Medical Instruments	Production Operator	Ethylene Oxide	29 CFR 1910.1047
Surgical & Medical Instruments	Welder/Brasier/Solder	Iron Oxide Fume	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	Isoflurane	Section (5)(a)(1)
Surgical & Medical Instruments	Clean/Etch/Polisher	Isopropyl Alcohol	29 CFR 1910.1000
Surgical & Medical Instruments	Maintenance Tech	Isopropyl Alcohol	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	Isopropyl Alcohol	29 CFR 1910.1000
Surgical & Medical Instruments	Welder/Brasier/Solder	Manganese Fume	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	Mercury Vapor (as Hg)	29 CFR 1910.1000
Surgical & Medical Instruments	Clean/Etch/Polisher	Methylene Chloride	29 CFR 1910.1053
Surgical & Medical Instruments	Maintenance Tech	Methylene Chloride	29 CFR 1910.1053
Surgical & Medical Instruments	Production Operator	Methylene Chloride	29 CFR 1910.1053
Surgical & Medical Instruments	Production Operator	Musculoskeletal Disorder – Cumulative Trauma	Section (5)(a)(1)
Surgical & Medical Instruments	Maintenance Tech	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
Surgical & Medical Instruments	Ship/Receive Warehouse Worker	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)

IH/OEHS Exposure Profile**Manufacturing: Measuring, Analyzing and Controlling Instruments**

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Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Surgical & Medical Instruments	Maintenance Tech	Occupational Noise	29 CFR 1910.95
Surgical & Medical Instruments	Production Operator	Occupational Noise	29 CFR 1910.95
Surgical & Medical Instruments	Welder/Brasier/Solder	Ozone	29 CFR 1910.1000
Surgical & Medical Instruments	Clean/Etch/Polisher	Tetrachloroethylene	29 CFR 1910.1000
Surgical & Medical Instruments	Maintenance Tech	Tetrachloroethylene	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	Tetrachloroethylene	29 CFR 1910.1000
Surgical & Medical Instruments	Clean/Etch/Polisher	Tetrahydrofuran	29 CFR 1910.1000
Surgical & Medical Instruments	Maintenance Tech	Tetrahydrofuran	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	Tetrahydrofuran	29 CFR 1910.1000
Surgical & Medical Instruments	Clean/Etch/Polisher	Toluene	29 CFR 1910.1000
Surgical & Medical Instruments	Maintenance Tech	Toluene	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	Toluene	29 CFR 1910.1000
Surgical & Medical Instruments	Maintenance Tech	Total Dust	29 CFR 1910.1000
Surgical & Medical Instruments	Maintenance Tech	Ultraviolet Light	29 CFR 1910.97
Surgical & Medical Instruments	Welder/Brasier/Solder	Ultraviolet Light	29 CFR 1910.97
Surgical & Medical Instruments	Maintenance Tech	Xylene Isomers	29 CFR 1910.1000
Surgical & Medical Instruments	Production Operator	Xylene Isomers	29 CFR 1910.1000
Surgical & Medical Instruments	Spray Painter/Coater	Xylene Isomers	29 CFR 1910.1000
Watch, Clock, Clockwork Parts	Maintenance Tech	2-Butanone	29 CFR 1910.1000
Watch, Clock, Clockwork Parts	Production Operator	2-Butanone	29 CFR 1910.1000
Watch, Clock, Clockwork Parts	Spray Painter/Coater	2-Butanone	29 CFR 1910.1000
Watch, Clock, Clockwork Parts	Clean/Etch/Polisher	Isopropyl Alcohol	29 CFR 1910.1000
Watch, Clock, Clockwork Parts	Maintenance Tech	Isopropyl Alcohol	29 CFR 1910.1000
Watch, Clock, Clockwork Parts	Production Operator	Isopropyl Alcohol	29 CFR 1910.1000
Watch, Clock, Clockwork Parts	Spray Painter/Coater	N-Butyl Acetate	29 CFR 1910.1000
Watch, Clock, Clockwork Parts	Maintenance Tech	Toluene	29 CFR 1910.1000
Watch, Clock, Clockwork Parts	Production Operator	Toluene	29 CFR 1910.1000
Watch, Clock, Clockwork Parts	Spray Painter/Coater	Toluene	29 CFR 1910.1000

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Type of Operation	Exposed Personnel	Health Hazard	OSHA Standard
Watch, Clock, Clockwork Parts	Maintenance Tech	Xylene Isomers	29 CFR 1910.1000
Watch, Clock, Clockwork Parts	Production Operator	Xylene Isomers	29 CFR 1910.1000
Watch, Clock, Clockwork Parts	Spray Painter/Coater	Xylene Isomers	29 CFR 1910.1000
X-Ray Tube/Irradiation Device	Maintenance Tech	1,1,2-Trichloro-1,2,2-Trifluoroethane	Section (5)(a)(1)
X-Ray Tube/Irradiation Device	Welder/Brasier/Solder	Antimony and Compounds (as Sb)	29 CFR 1910.1000
X-Ray Tube/Irradiation Device	Welder/Brasier/Solder	Carbon Monoxide	29 CFR 1910.1000
X-Ray Tube/Irradiation Device	Welder/Brasier/Solder	Inorganic Lead (as Pb)	29 CFR 1910.1025
X-Ray Tube/Irradiation Device	Production Operator	Musculoskeletal Disorder – Cumulative Trauma	Section (5)(a)(1)
X-Ray Tube/Irradiation Device	Maintenance Tech	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
X-Ray Tube/Irradiation Device	Ship/Receive Warehouse Worker	Musculoskeletal Disorder – Physical Exertion	Section (5)(a)(1)
X-Ray Tube/Irradiation Device	Maintenance Tech	Occupational Noise	29 CFR 1910.95
X-Ray Tube/Irradiation Device	Production Operator	Occupational Noise	29 CFR 1910.95
X-Ray Tube/Irradiation Device	Welder/Brasier/Solder	Ozone	29 CFR 1910.1000
X-Ray Tube/Irradiation Device	Maintenance Tech	Styrene	29 CFR 1910.1000
X-Ray Tube/Irradiation Device	Production Operator	Styrene	29 CFR 1910.1000
X-Ray Tube/Irradiation Device	Maintenance Tech	Ultraviolet Light	29 CFR 1910.97
X-Ray Tube/Irradiation Device	Welder/Brasier/Solder	Ultraviolet Light	29 CFR 1910.97