

# *Taking a Deeper Look at High Demand Manufacturing and Logistics Jobs*

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# ***Workforce Demand in Nevada's Manufacturing and Logistics Sector: Projections and Priorities***

- Industry and Workforce Overview
- Strategic Location Drivers
- Occupations in Demand by Manufacturing and Logistics Industries
  - Sector Staffing Ranked by the Number of Jobs
  - Staffing Ranked by Economic Development Priorities
  - Staffing Ranked by Occupational Projections
  - Staffing Demand Ranked by Priorities and Projections

# Staffing Demand Ranked by Priorities and Projections

Description	Combined Ranking	Annual Workers Needed to Fill Openings and/or to be Nationally Competitive in 10 Years	Typical Entry Level Education	Typical On-The-Job Training
Machinists	1	318	High school diploma or equivalent	Long-term on-the-job training
Production Supervisor	2	299	<b>Postsecondary non-degree award</b>	None
Product Inspectors	3	229	High school diploma or equivalent	Moderate-term on-the-job training
Technical Product Sales Representatives	4	201	<b>Bachelor's degree</b>	Moderate-term on-the-job training
Team Assemblers	5	729	High school diploma or equivalent	Moderate-term on-the-job training
Non-Technical Product Sales Representatives	6	1,015	High school diploma or equivalent	Moderate-term on-the-job training
Secretaries and Administrative Assistants	6	458	High school diploma or equivalent	Short-term on-the-job training
Heavy and Tractor-Trailer Truck Drivers	8	1,094	<b>Postsecondary non-degree award</b>	Short-term on-the-job training
General and Operations Managers	9	1,014	<b>Bachelor's degree</b>	None
Office and Administrative Supervisors	10	471	High school diploma or equivalent	None
Industrial Truck and Tractor Operators	11	318	Less than high school	Short-term on-the-job training
Hand Packers and Packagers	12	259	Less than high school	Short-term on-the-job training
Production Workers	13	180	Less than high school	Short-term on-the-job training
Maintenance and Repair Workers	14	659	High school diploma or equivalent	Long-term on-the-job training
Bookkeeping Clerks	15	524	High school diploma or equivalent	Moderate-term on-the-job training
Freight, Stock, and Material Movers	16	1,327	Less than high school	Short-term on-the-job training
Sales Managers	17	277	<b>Bachelor's degree</b>	None
Office Clerks	18	1,452	High school diploma or equivalent	Short-term on-the-job training
Customer Service Representatives	19	1,034	High school diploma or equivalent	Short-term on-the-job training
Stock Clerks and Order Fillers	20	956	Less than high school	Short-term on-the-job training
Freight, Stock, and Material Mover Supervisors	21	83	High school diploma or equivalent	None
Shipping, Receiving, and Traffic Clerks	22	448	High school diploma or equivalent	Short-term on-the-job training
Printing Press Operators	23	111	High school diploma or equivalent	Moderate-term on-the-job training
Light Truck or Delivery Services Drivers	24	371	High school diploma or equivalent	Short-term on-the-job training
Driver/Sales Workers	25	122	High school diploma or equivalent	Short-term on-the-job training
Airline Pilots, Copilots, and Flight Engineers	26	78	<b>Bachelor's degree</b>	Moderate-term on-the-job training
Aircraft Mechanics and Service Technicians	27	54	<b>Postsecondary non-degree award</b>	None
Cargo and Freight Agents	28	56	High school diploma or equivalent	Short-term on-the-job training
Ticket Agents and Travel Clerks	29	68	High school diploma or equivalent	Short-term on-the-job training
Flight Attendants	30	81	High school diploma or equivalent	Moderate-term on-the-job training

# *Taking a Deeper Dive: The O\*NET Program*

- Information on 277 standardized and occupation-specific descriptors that define 1,110 occupational titles
  - Is continually updated by surveying a broad range of workers from each occupation
  - Provides a basis for career exploration
  - Content Model
    - Defines the information structure for a single occupation
    - Hierarchical model capturing the specific knowledge, skills, and abilities of each occupation
  - O\*NET-SOC Taxonomy
    - Defines the set of occupations across the world of work
  - Data Collection
    - Data initially based on 2001 occupational analysis
    - Annual survey updates from occupation worker population and occupation experts
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# Machinists

## Overview

Median Hourly Earnings*	\$17.40
2015 Jobs*	1,103
2005-2015 Change*	9
2005-2015 Estimated Annual Openings*	51

\*These figures are taken from: [Machinists \(SOC 51-4041\)](#)

## Educational Attainment

Post-Baccalaureate Certificate - awarded for completion of an organized program of study; designed for people who have completed a Baccalaureate degree, but do not meet the requirements of academic degrees carrying the title of Master	5%
Associate's Degree (or other 2-year degree)	5%
Some College Courses	4%
Post-Secondary Certificate - awarded for training completed after high school (for example, in Personnel Services, Engineering-related Technologies, Vocational Home Economics, Construction Trades, Mechanics and Repairers, Precision Production Trades)	50%
High School Diploma (or GED or High School Equivalence Certificate)	34%
Less than a High School Diploma	2%

# Machine Tool Technology/Machinist (CIP Code 48.0501)

## Regional Completions by Award Level



Award Level	Completions (2014)	Percent
Award of less than 1 academic year	37	84.1%
Award of at least 1 but less than 2 academic years	1	2.3%
Associates degree	6	13.6%
Award of at least 2 but less than 4 academic years	0	0.0%
Bachelors degree	0	0.0%

## Regional Completions by Institution

Institution	Certificates (2014)	Degrees (2014)	Total Completions (2014)
Western Nevada College	31	6	37
Truckee Meadows Community College	7	0	7

# Machinists

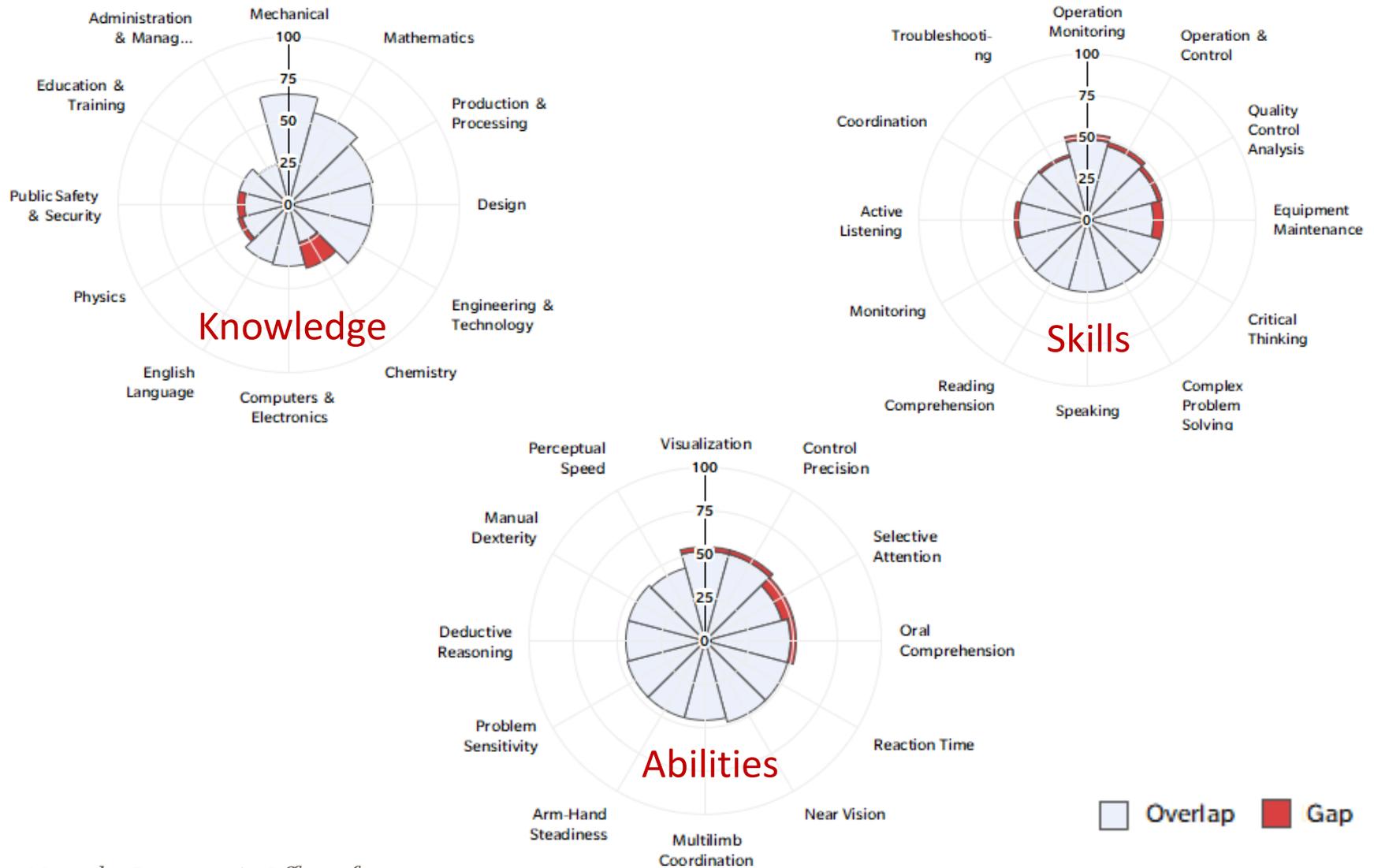
## Top Compatible Occupations

O*NET Occupation	Median Hourly Earnings	2005 Jobs	2015 Jobs	2005-2015 Change	2005-2015 Estimated Annual Openings	Compatibility Index
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	\$14.57	159	83	-76	5	98
Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	\$24.59	99	110	11	5	97
Biomass Plant Technicians	\$30.24	161	131	-30	7	97
Welders, Cutters, and Welder Fitters	\$19.18	2,839	1,958	-881	100	97
Model Makers, Metal and Plastic	\$18.97	12	11	-1	1	97
Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	\$14.20	228	213	-15	10	97
Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	\$20.14	40	28	-12	2	96
Sheet Metal Workers	\$20.44	2,351	1,480	-871	84	96
Cabinetmakers and Bench Carpenters	\$16.05	1,347	620	-727	34	96
Tool and Die Makers	\$23.66	130	108	-22	2	96

# Machinists Competencies

Knowledge			Skills			Abilities					
Importance	Level		Importance	Level		Importance	Level				
68		Mechanical	70	68	48	56	48	52	Finger Dexterity	63	52
63		Mathematics	76	63	46	53	46	52	Visualization	56	52
52		Production and Processing	60	52	46	50	46	52	Near Vision	60	52
50		Engineering and Technology	46	50	45	53	45	52	Control Precision	63	52
49		Design	51	49	43	47	43	50	Reaction Time	56	50
46		English Language	57	46	43	47	43	48	Oral Expression	53	48
40		Computers and Electronics	42	40	43	50	43	48	Arm-Hand Steadiness	66	48
37		Education and Training	34	37	43	47	43	48	Category Flexibility	50	48
29		Building and Construction	24	29	43	50	43	48	Written Comprehension	53	48
28		Physics	28	28	41	41	41	48	Manual Dexterity	66	48
27		Administration and Management	29	27	41	44	41	48	Oral Comprehension	53	48
26		Public Safety and Security	25	26	41	50	41	46	Speech Clarity	47	46
26		Customer and Personal Service	29	26	39	47	39	46	Problem Sensitivity	56	46
23		Chemistry	17	23	39	47	39	46	Multilimb Coordination	60	46
22		Personnel and Human Resources	21	22	39	44	39	46	Information Ordering	56	46
21		Clerical	21	21	39	44	39	45	Originality	38	45
20		Psychology	18	20	39	41	39	45	Rate Control	50	45
18		Transportation	19	18	39	44	39	45	Speech Recognition	50	45
17		Sales and Marketing	14	17	37	41	37	45	Inductive Reasoning	53	45
16		Communications and Media	14	16	37	47	37	45	Deductive Reasoning	53	45
14		Telecommunications	12	14	37	35	37	45	Flexibility of Closure	41	45
13		Economics and Accounting	15	13	37	41	37	45	Selective Attention	56	45
12		Sociology and Anthropology	9	12	36	38	36	45	Perceptual Speed	47	45
12		Law and Government	13	12	34	28	34	43	Hearing Sensitivity	41	43
12		Therapy and Counseling	10	12	32	25	32	43	Far Vision	44	43
11		Foreign Language	11	11	32	31	32	43	Auditory Attention	41	43
10		Medicine and Dentistry	9	10	32	41	32	43	Trunk Strength	44	43
9		Food Production	10	9	32	38	32	41	Visual Color Discrimination	41	41
9		Philosophy and Theology	8	9	32	38	32	41	Mathematical Reasoning	44	41
9		Biology	7	9	30	38	30	41	Fluency of Ideas	44	41
9		Geography	8	9	29	28	29	39	Depth Perception	47	39
8		History and Archeology	7	8	16	16	16	39	Extent Flexibility	44	39
7		Fine Arts	7	7	14	16	14	39	Response Orientation	44	39
					13	13	13	39	Written Expression	44	39
					5	5	5	39	Number Facility	41	39
								39	Static Strength	41	39
								37	Speed of Closure	38	37
								37	Time Sharing	41	37
								37	Wrist-Finger Speed	44	37
								36	Speed of Limb Movement	35	36
								34	Dynamic Strength	35	34
								34	Stamina	35	34
								34	Memorization	38	34
								32	Gross Body Coordination	35	32
								30	Spatial Orientation	31	30
								23	Gross Body Equilibrium	28	23
								18	Sound Localization	22	18
								18	Glare Sensitivity	19	18
								16	Peripheral Vision	16	16
								13	Night Vision	16	13
								11	Dynamic Flexibility	13	11
								9	Explosive Strength	10	9

# Machinists vs. Multiple Machine Tool Setter Competencies



# Product Supervisor

## Overview

Median Hourly Earnings*	\$26.99
2015 Jobs*	2,738
2005-2015 Change*	-226
2005-2015 Estimated Annual Openings*	86

\*These figures are taken from: [First-Line Supervisors of Production and Operating Workers \(SOC 51-1011\)](#)

## Educational Attainment

Post-Baccalaureate Certificate - awarded for completion of an organized program of study; designed for people who have completed a Baccalaureate degree, but do not meet the requirements of academic degrees carrying the title of Master	0%
Bachelor's Degree	23%
Associate's Degree (or other 2-year degree)	6%
Some College Courses	14%
Post-Secondary Certificate - awarded for training completed after high school (for example, in Personnel Services, Engineering-related Technologies, Vocational Home Economics, Construction Trades, Mechanics and Repairers, Precision Production Trades)	9%
High School Diploma (or GED or High School Equivalence Certificate)	44%
Less than a High School Diploma	3%

# Product Inspectors

## Overview

Median Hourly Earnings*	\$15.29
2015 Jobs*	2,334
2005-2015 Change*	30
2005-2015 Estimated Annual Openings*	101

\*These figures are taken from: [Inspectors, Testers, Sorters, Samplers, and Weighers \(SOC 51-9061\)](#)

## Educational Attainment

Bachelor's Degree	3%
Associate's Degree (or other 2-year degree)	10%
Some College Courses	7%
Post-Secondary Certificate - awarded for training completed after high school (for example, in Personnel Services, Engineering-related Technologies, Vocational Home Economics, Construction Trades, Mechanics and Repairers, Precision Production Trades)	14%
High School Diploma (or GED or High School Equivalence Certificate)	52%
Less than a High School Diploma	14%

# Technical Product Sales Representatives

## Overview

Median Hourly Earnings*	\$34.60
2015 Jobs*	1,486
2005-2015 Change*	-237
2005-2015 Estimated Annual Openings*	55

\*These figures are taken from: [Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products \(SOC 41-4011\)](#)

## Educational Attainment

Doctoral Degree	0%
Post-Baccalaureate Certificate - awarded for completion of an organized program of study; designed for people who have completed a Baccalaureate degree, but do not meet the requirements of academic degrees carrying the title of Master	2%
Bachelor's Degree	39%
Some College Courses	30%
Post-Secondary Certificate - awarded for training completed after high school (for example, in Personnel Services, Engineering-related Technologies, Vocational Home Economics, Construction Trades, Mechanics and Repairers, Precision Production Trades)	14%
High School Diploma (or GED or High School Equivalence Certificate)	14%

# Team Assemblers

## Overview

Median Hourly Earnings*	\$11.93
2015 Jobs*	4,800
2005-2015 Change*	-1,193
2005-2015 Estimated Annual Openings*	141

\*These figures are taken from: [Team Assemblers \(SOC 51-2092\)](#)

## Educational Attainment

Some College Courses	4%
Post-Secondary Certificate - awarded for training completed after high school (for example, in Personnel Services, Engineering-related Technologies, Vocational Home Economics, Construction Trades, Mechanics and Repairers, Precision Production Trades)	4%
High School Diploma (or GED or High School Equivalence Certificate)	86%
Less than a High School Diploma	6%

# Governors Office of Economic Development

*Bob Potts*

*Research Director*

*775-687-9907*

*bpotts@diversifynevada.com*