



Key Demand Occupations – 2012 – Battle Creek Area

College Degree Required

Education	Title / Description / Key Skills	Projected Job Growth	% Job Growth 2002 - 2012	Hourly Wage
Management Occupations				
General and Operations Managers (11-1021)				
	Plan, direct, or coordinate the operations of companies or public and private sector organizations. Duties and responsibilities include formulating policies, managing daily operations, and planning the use of materials and human resources, but are too diverse and general in nature to be classified in any one functional area of management or administration, such as personnel, purchasing, or administrative services. Includes owners and managers who head small business establishments whose duties are primarily managerial.	110	12.3%	\$33.78
Work Exp. + Bachelor's	Key Skills: Active Listening, Management of Personnel Resources, Time Management, Judgment & Decision Making, Monitoring			
Construction Managers (11-9021)				
	Plan, direct, coordinate, or budget, usually through subordinate supervisory personnel, activities concerned with the construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a construction project and oversee its organization, scheduling, and implementation.	25	14.7%	\$35.77
Bachelor's	Key Skills: Reading, Critical Thinking, Coordination, Instructing, Active Listening			
Medical and Health Services Managers (11-9111)				
	Plan, direct, or coordinate medicine and health services in hospitals, clinics, managed care organizations, public health agencies, or similar organizations.	45	19.1%	\$38.66
Work Exp. + Bachelor's	Key Skills: Active Listening, Reading Comprehension, Critical Thinking, Monitoring, Speaking			
Professional Occupations				
Employment, Recruitment & Placement Specialists (13-1071)				
	Recruit and place workers.	45	31.1%	\$24.57*
Bachelor's	Key Skills: Reading Comprehension, Service Orientation, Active Listening, Speaking, Persuasion			
Training and Development Specialists (13-1073)				
	Conduct training and development programs for employees.	30	17.9%	\$25.30
Bachelor's	Key Skills: Active Listening, Speaking, Time Management, Reading Comprehension, Writing			
Management Analysts (13-1111)				
	Conduct organizational studies and evaluations, design systems and procedures, conduct work simplifications and measurement studies, and prepare operations and procedures manuals to assist management in operating more efficiently and effectively. Includes program analysts and management consultants.	90	11.1%	\$33.29
Work Exp. + Bachelor's	Key Skills: Critical Thinking, Judgment & Decision Making, Active Listening, Coordination, Time Management			
Accountants and Auditors (13-2011)				
	Examine, analyze, and interpret accounting records for the purpose of giving advice or preparing statements. Install or advise on systems of recording costs or other financial and budgetary data.	95	14.4%	\$24.17
Bachelor's	Key Skills: Mathematics, Active Listening, Critical Thinking, Monitoring, Judgment & Decision Making			
Computer Support Specialists (15-1041)				
	Provide technical assistance to computer system users. Answer questions or resolve computer problems for clients in person, via telephone or from remote location. May provide assistance concerning the use of computer hardware and software, including printers.	25	16.9%	\$21.88
Associate's	Key Skills: Troubleshooting, Reading Comprehension, Critical Thinking, Active Listening, Writing			
Computer Systems Analysts (15-1051)				
	Analyze science, engineering, business, and all other data processing problems for application to electronic data processing systems. Analyze user requirements, procedures, and problems to automate or improve existing systems and review computer system capabilities, workflow, and scheduling limitations.	55	17.6%	\$32.22
Bachelor's	Key Skills: Active Learning, Reading Comprehension, Complex Problem Solving, Critical Thinking, Active Listening			
Industrial Engineers (17-2112)				
	Design, develop, test, and evaluate integrated systems for managing industrial production processes including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination.	65	23.5%	\$30.49
Bachelor's	Key Skills: Critical Thinking, Active Listening, Time Management, Reading Comprehension, Complex Problem Solving			

OJT = On-the-job Training

Note: The forecasts above highlight positive long-term growth occupations. They do not necessary reflect current hiring demand.

* Michigan Wage Data

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Mechanical Engineers (17-2141)				
	Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of such equipment as centralized heat, gas, water, and steam systems.	90	23.0%	\$33.41*
Bachelor's	Key Skills: Mathematics, Complex Problem Solving, Critical Thinking, Reading Comprehension, Science			
Mechanical Engineering Technicians (17-3027)				
	Apply theory and principles of mechanical engineering to modify, develop, and test machinery and equipment under direction of engineering staff or physical scientists.	20	16.4%	\$23.24*
Associate's	Key Skills: Reading Comprehension, Active Listening, Coordination, Judgment & Decision Making, Complex Problem Solving			
Child, Family, and School Social Workers (21-1021)				
	Provide social services and assistance to improve the social and psychological functioning of children and their families and to maximize the family well-being and the academic functioning of children. May assist single parents, arrange adoptions, and find foster homes for abandoned or abused children. In schools, they address such problems as teenage pregnancy, misbehavior, and truancy. May also advise teachers on how to deal with problem children.	100	25.5%	\$23.16
Bachelor's	Key Skills: Speaking, Active Listening, Monitoring, Social Perceptiveness, Service Orientation			
Directors, Religious Activities and Education (21-2021)				
	Direct and coordinate activities of a denominational group to meet religious needs of students. Plan, direct, or coordinate church school programs designed to promote religious education among church membership. May provide counseling and guidance relative to marital, health, financial, and religious problems.	35	19.3%	\$15.13*
Bachelor's	Key Skills: Speaking, Active Listening, Reading Comprehension, Service Orientation, Social Perceptiveness			
Graphic Designers (27-1024)				
	Design or create graphics to meet a client's specific commercial or promotional needs, such as packaging, displays, or logos. May use a variety of mediums to achieve artistic or decorative effects.	25	15.1%	\$22.13*
Associate's	Key Skills: Time Management, Coordination, Active Listening, Judgment and Decision Making, Active Learning			
Public Relations Specialists (27-3031)				
	Engage in promoting or creating good will for individuals, groups, or organizations by writing or selecting favorable publicity material and releasing it through various communications media. May prepare and arrange displays, and make speeches.	35	16.4%	\$23.11
Bachelor's	Key Skills: Writing, Critical Thinking, Reading Comprehension, Active Listening, Judgment & Decision Making			
Health Care Occupations				
Registered Nurses (29-1111)				
	Assess patient health problems and needs, develop and implement nursing care plans, and maintain medical records. Administer nursing care to ill, injured, convalescent, or disabled patients. May advise patients on health maintenance and disease prevention or provide case management. Licensing or registration required.	330	19.6%	\$28.25
Associate's	Key Skills: Active Listening, Reading Comprehension, Critical Thinking, Instructing, Speaking, Time Management			
Dental Hygienists (29-2021)				
	Clean teeth and examine oral areas, head, and neck for signs of oral disease. May educate patients on oral hygiene, take and develop X-rays, or apply fluoride or sealants.	40	22.7%	\$26.46
Associate's	Key Skills: Active Listening, Speaking, Reading Comprehension, Active Learning, Time Management			
Medical Records and Health Information Technicians (29-2071)				
	Compile, process, and maintain medical records of hospital and clinic patients in a manner consistent with medical, administrative, ethical, legal, and regulatory requirements of the health care system. Process, maintain, compile, and report patient information for health requirements and standards.	30	32.3%	\$13.34
Associate's	Key Skills: Active Listening, Reading Comprehension, Time Management, Speaking, Writing			
Sales Occupations				
Securities, Commodities & Financial Sales Agents (41-3031)				
	Buy and sell securities in investment and trading firms, or call upon businesses and individuals to sell financial services. Provide financial services, such as loan, tax, and securities counseling. May advise securities customers about such things as stocks, bonds, and market conditions.	25	19.0%	\$37.68*
Bachelor's	Key Skills: Service Orientation, Active Listening, Speaking, Instruction, Judgment and Decision Making			

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Professional Occupations				
	Purchasing Agents, Except Wholesale, Retail and Farm (13-1023)	25	8.9%	\$24.46
Work Exp. in Related Occupation	Purchase machinery, equipment, tools, parts, supplies, or services necessary for the operation of an establishment. Purchase raw or semi-finished materials for manufacturing. Key Skills: Speaking, Active Listening, Critical Thinking, Judgment & Decision Making, Reading Comprehension			
	Cost Estimators (13-1051)	35	19.1%	\$27.17
Work Exp. in Related Occupation	Prepare cost estimates for product manufacturing, construction projects, or services to aid management in bidding on or determining price of product or service. May specialize according to particular service performed or type of product manufactured. Key Skills: Active Listening, Reading Comprehension, Mathematics, Time Management, Writing			
	Preschool Teachers, Except Special Education (25-2011)	65	14.6%	\$12.91
Post-Secondary Vocational Training	Instruct children (normally up to 5 years of age) in activities designed to promote social, physical, and intellectual growth needed for primary school in preschool, day care center, or other child development facility. May be required to hold State certification. Key Skills: Active Listening, Instructing, Speaking, Reading Comprehension, Learning Strategies			
	Self-Enrichment Education Teachers (25-3021)	55	31.8%	\$16.18*
Work Exp. in Related Occupation	Teach or instruct courses other than those that normally lead to an occupational objective or degree. Courses may include self-improvement, nonvocational, and nonacademic subjects. Teaching may or may not take place in a traditional educational institution. Key Skills: Instructing, Speaking, Active Listening, Learning Strategies, Social Perceptiveness			
Health Care Occupations				
	Licensed Practical & Licensed Vocational Nurses (29-2061)	45	10.2%	\$17.91
Post-Secondary Vocational Training	Care for ill, injured, convalescent, or disabled persons in hospitals, nursing homes, clinics, private homes, group homes, and similar institutions. May work under the supervision of a registered nurse. Licensing required. Key Skills: Active Listening, Reading Comprehension, Time Management, Writing, Active Learning			
Service Occupations				
	Fire Fighters (33-2011)	30	15.5%	\$17.63*
Long-Term OJT	Control and extinguish fires or respond to emergency situations where life, property, or the environment is at risk. Duties may include fire prevention, emergency medical service, hazardous material response, search and rescue, and disaster management. Key Skills: Active Listening, Coordination, Equipment Selection, Critical Thinking, Equipment Maintenance			
	Police and Sheriff's Patrol Officers (33-3051)	75	19.8%	\$22.95*
Long-Term OJT	Maintain order, enforce laws and ordinances, and protect life and property in an assigned patrol district. Perform combination of following duties: patrol a specific area on foot or in a vehicle; direct traffic; issue traffic summonses; investigate accidents; apprehend and arrest suspects, or serve legal processes of courts. Key Skills: Judgment & Decision Making, Active Listening, Critical Thinking, Writing, Speaking			
	First-Line Supervisors of Food Preparation Workers (35-1012)	90	11.7%	\$13.16
Work Exp. in Related Occupation	Supervise workers engaged in preparing and serving food. Key Skills: Speaking, Active Listening, Time Management, Instruction, Reading Comprehension			
	Hairdressers, Hairstylists, and Cosmetologists (39-5012)	85	12.3%	\$11.10*
Post-Secondary Vocational Training	Provide beauty services, such as shampooing, cutting, coloring, and styling hair, and massaging and treating scalp. May also apply makeup, dress wigs, perform hair removal, and provide nail and skin care services. Key Skills: Active Listening, Speaking, Time Management, Coordination, Social Perceptiveness			
Sales Occupations				
	First-Line Supervisors/Managers of Retail Sales Workers (41-1011)	225	11.2%	\$18.22
Work Exp. in Related Occupation	Directly supervise sales workers in a retail establishment or department. Duties may include management functions, such as purchasing, budgeting, accounting, and personnel work, in addition to supervisory duties. Key Skills: Management of Personnel Resources, Active Listening, Service Orientation, Time Management, Instructing			

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First-Line Supervisors of Non-Retail Sales Workers (41-1012)				
		75	12.7%	\$27.63
Work Exp. in Related Occupation	Directly supervise and coordinate activities of sales workers other than retail sales workers. Duties may include management functions, such as purchasing, budgeting, accounting, and personnel work, in addition to supervisory duties. Key Skills: Speaking, Time Management, Active Listening, Reading Comprehension, Social Perceptiveness			
Construction and Repair Occupations				
Brickmasons and Blockmasons (47-2021)				
		25	14.2%	\$22.62*
Long-Term OJT	Lay and bind building materials, such as brick, structural tile, concrete block, cinder block, glass block, and terra-cotta block, with mortar and other substances to construct or repair walls, partitions, arches, sewers, and other structures. Key Skills: Active Listening, Coordination, Mathematics, Time Management, Equipment Selection			
Carpenters (47-2031)				
		240	16.8%	\$20.91
Long-Term OJT	Construct, erect, install, or repair structures and fixtures made of wood, such as concrete forms; building frameworks, including partitions, joists, studding, and rafters; wood stairways, window and door frames, and hardwood floors. May also install cabinets, siding, drywall and batt or roll insulation. Includes brattice builders who build doors or brattices (ventilation walls or partitions) in underground passageways to control the proper circulation of air through the passageways and to the working places. Key Skills: Mathematics, Time Management, Active Listening, Critical Thinking, Judgment & Decision Making			
Electricians (47-2111)				
		75	23.8%	\$22.42
Long-Term OJT	Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems Key Skills: Installation, Active Listening, Reading Comprehension, Troubleshooting, Equipment Selection			
Plumbers, Pipefitters, and Steamfitters (47-2152)				
		55	12.1%	\$22.19
Long-Term OJT	Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases. May install heating and cooling equipment and mechanical control systems. Key Skills: Active Listening, Mathematics, Repairing, Troubleshooting, Complex Problem Solving			
Structural Iron and Steel Workers (47-2221)				
		25	15.9%	\$23.28*
Long-Term OJT	Raise, place, and unite iron or steel girders, columns, and other structural members to form completed structures or structural frameworks. May erect metal storage tanks and assemble prefabricated metal buildings. Key Skills: Installation, Equipment Selection, Operation and Control			
Automotive Service Technicians and Mechanics (49-3023)				
		45	10.6%	\$16.32
Post- Secondary Vocational Training	Diagnose, adjust, repair, or overhaul automotive vehicles. Key Skills: Troubleshooting, Repairing, Equipment Selection, Active Listening, Critical Thinking			
HVAC Mechanics and Installers (49-9021)				
		25	25.6%	\$21.85*
Long-Term OJT	Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves. Key Skills: Troubleshooting, Repairing, Active Listening, Equipment Maintenance, Critical Thinking			
Production Occupations				
Supervisors of Production & Operating Workers (51-1011)				
		105	11.6%	\$21.90
Work Exp. in Related Occupation	Supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators, and plant and system operators. Key Skills: Active Listening, Management of Personnel Resources, Reading Comprehension, Instructing, Monitoring			
Welders, Cutters, Solderers, and Brazers (51-4121)				
		65	14.0%	\$18.60*
Long-Term OJT	Use hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products. Key Skills: Operation & Control, Equipment Selection, Equipment Maintenance, Mathematics, Operation Monitoring			

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