



Occupation Profile

INSULATION WORKERS, MECHANICAL

Occupation Description:

Apply insulating materials to pipes or ductwork, or other mechanical systems in order to help control and maintain temperature.

Typical Tasks:

- Measure and cut insulation for covering surfaces, using tape measures, handsaws, knives, and scissors.
- Fit insulation around obstructions, and shape insulating materials and protective coverings as required.
- Determine the amounts and types of insulation needed, and methods of installation, based on factors such as location, surface shape, and equipment use.
- Install sheet metal around insulated pipes with screws to protect the insulation from weather conditions or physical damage.
- Apply, remove, and repair insulation on industrial equipment, pipes, ductwork, or other mechanical systems such as heat exchangers, tanks, and vessels, to help control noise and maintain temperatures.
- Select appropriate insulation, such as fiberglass, Styrofoam, or cork, based on the heat retaining or excluding characteristics of the material.
- Read blueprints and specifications to determine job requirements.

Skills:

- **Critical Thinking** - Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems..
- **Coordination** - Adjusting actions in relation to others' actions..
- **Active Listening** - Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times..
- **Monitoring** - Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action..
- **Speaking** - Talking to others to convey information effectively..
- **Time Management** - Managing one's own time and the time of others..
- **Social Perceptiveness** - Being aware of others' reactions and understanding why they react as they do..

Knowledge:

- **Mathematics** - Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications..
- **Mechanical** - Knowledge of machines and tools, including their designs, uses, repair, and maintenance..
- **Building and Construction** - Knowledge of materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads..
- **Customer and Personal Service** - Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction..
- **English Language** - Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar..

- **Public Safety and Security** - Knowledge of relevant equipment, policies, procedures, and strategies to promote effective local, state, or national security operations for the protection of people, data, property, and institutions..
- **Education and Training** - Knowledge of principles and methods for curriculum and training design, teaching and instruction for individuals and groups, and the measurement of training effects..

Education & Training:

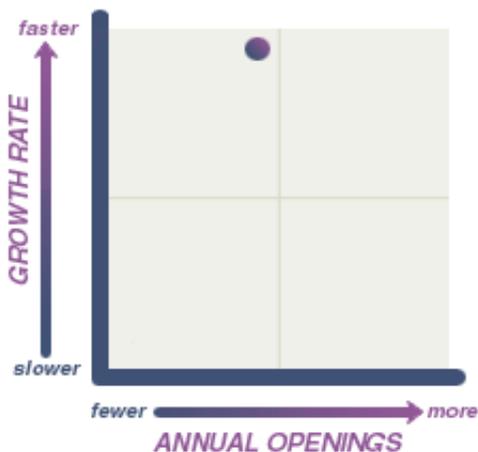
Moderate-term on-the-job training (1 to 12 months)

Wage Information:

Region	Average Annual	Average Hourly	Entry Level (hourly)	Mid-Range (hourly)
Statewide	\$56,982.00	\$27.40	\$18.80	\$20.26 - \$33.15
New Haven	\$62,971.00	\$30.27	\$19.65	\$22.12 - \$38.72

Occupation Outlook:

Region	Employment		Average Annual Growth Rate	Average Annual Job Openings
	2012	2022		
State of Connecticut	210	350	5.1%	17



► Employment in this occupation is expected to grow much faster than average, and the number of annual openings will offer good or favorable job opportunities.

Key:

N/A = Not Applicable, ***** = Over \$60.00 per hour, ##### = Over \$124,821

Similar Occupations:

- Brickmasons and Blockmasons
- Cement Masons and Concrete Finishers
- Terrazzo Workers and Finishers
- Drywall and Ceiling Tile Installers
- Glaziers
- Paperhangers
- Plasterers and Stucco Masons
- Roofers
- Elevator Installers and Repairers
- Electrical and Electronics Repairers, Powerhouse, Substation, and Relay

- Industrial Machinery Mechanics
- Maintenance Workers, Machinery
- Millwrights
- Maintenance and Repair Workers, General
- Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic
- Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders