

MINNESOTA PIPELINE PROJECT

PRIVATE INVESTMENT, PUBLIC EDUCATION LABOR AND INDUSTRY EXPERIENCE

Mechanic, Industrial Truck – Mechanics for Industrial Truck Maintenance and Repair inspect, repair, or overhaul agricultural machines with gasoline or diesel engines.

Industry-Sector Technical Competencies

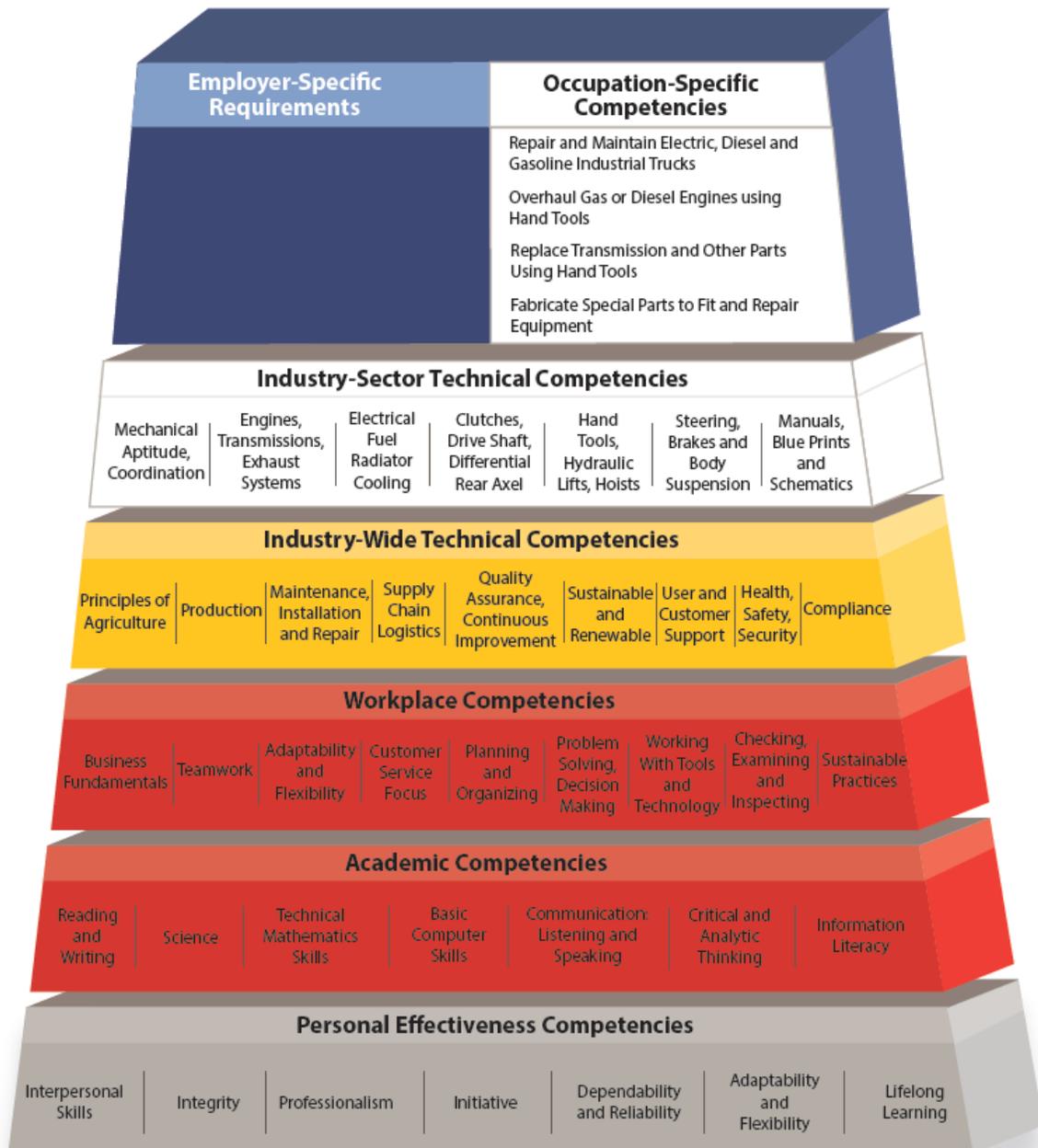
- Mechanical Aptitude & Coordination – Ability to understand how machines work and possess the physical coordination and dexterity to use tools.
- Engines, Transmissions, Exhaust Systems – Training on how engines, transmissions and exhaust systems work on machinery and how to maintain and repair them.
- Electrical Fuel Radiator Cooling – Understand how engine cooling systems work and how to maintain, repair and replace them.
- Clutches, Drive Shaft, Differential Rear Axle – Training on how to maintain, repair and replace clutches, drive shafts, and differential rear axles.
- Hand Tools, Hydraulic Lifts, Hoists – Knowledge on how to safely use hand tools, lifts and hoists while working on machinery.
- Steering, Brakes and Body Suspension – Training on how to maintain, repair and replace steering, brakes and body suspension systems.
- Manuals, Blueprints and Schematics – Understand how to read technical information found in manuals, blueprints and schematics relating to the machinery.

Occupation-Specific Competencies

- Industrial Truck Repair and Maintenance – Demonstrate understanding of how to maintain and repair industrial truck engines and machinery.
- Industrial Truck Engine Overhaul – Demonstrate process of overhauling an industrial engine.
- Engine Part Replacement – Ability to properly install replacement parts on machinery.
- Special Part Fabrication – Demonstrate fabricating special parts when required.

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Competency Model for Agricultural Occupation: Mechanic, Industrial Truck



Based on: Truck Mechanics and Diesel Engine Specialists: Competency Model Employment and Training Administration, United States Department of Labor

Mechanic, Industrial Truck Occupational Competency Training Plan

Related Instruction means an organized and systematic form of instruction designed to provide the apprentice with the knowledge of the theoretical and technical subjects related to the apprentice's trade of occupation, or industrial courses or, when of equivalent value, by correspondence, electronic media, or other forms or self-study approved by the commissioner.

	Course	Course Description	Credit/Non-Credit	Hours Spent on Competency
	Mechanical Aptitude, Coordination			
	Engines, Transmissions, Exhaust Systems			
	Electrical Fuel Radiator Cooling			
	Clutches, Drive Shaft, Differential Rear Axel			
	Hand Tools, Hydraulic Lifts, Hoists			
	Steering, Brakes and Body Suspension			
	Manuals, Blue Prints and Schematics			

On-The-Job Training is the work experience and instruction. Training experience need not be in the exact order as listed below.

	Trainer/Instructor	Name of person responsible for verifying competency mastery	Hours spent on competency
	Repair and Maintain Electric, Diesel and Gasoline Industrial Trucks		
	Overhaul Gas or Diesel Engines using Hand Tools		
	Replace Transmission and Other Parts Using Hand Tools		
	Fabricate Special parts to Fit and Repair Equipment		