WYOMING

AREIRS



Photo Courtesy of U.S. Army

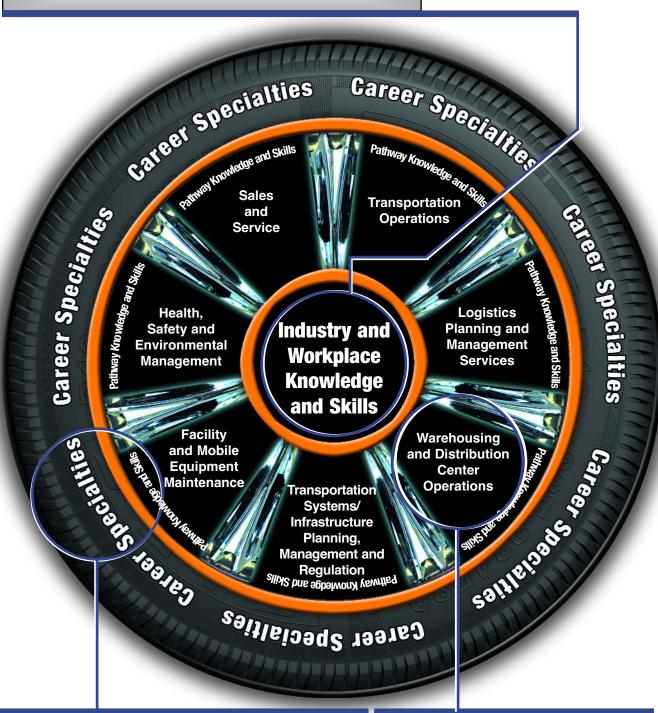


Planning, management and movement of people, materials and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Career Cluster Guide

CAREER CLUSTER MODEL

Industry and workplace knowledge and skills are taught and reinforced in all pathways and at all levels.



Highly specific career specialty skills are taught at the postsecondary level by colleges, trade schools, apprenticeships or other training options.

High schools offer some or all pathways to students and teach pathway-specific knowledge and skills.

PATHWAY

SPECIFIC OCCUPATIONS

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Transportation Operations	Air/Space Transportation: Transportation managers – air Airplane pilots/copilots Commercial pilots Flight engineers Flight attendants Dispatchers – air Traffic managers Air traffic controllers Aircraft cargo handling supervisors Airfield operations specialists Other airlines operations and support jobs Rail Transportation: Transportation managers – rail Dispatchers – rail Traffic managers Locomotive engineers Locomotive firers Railyard conductors and yardmasters Railroad brake, signal and switch operators (including train crew	members and yard workers) Railyard engineers, dinkey operators, and hostlers Other railyard and terminal operations and support jobs Water Transportation: Transportation: Transportation managers – water Dispatchers – water Traffic managers Captains Mates Pilots of water vessels Sailors and marine oilers Able seamen Ordinary seamen Ship and boat captains Ship engineers Motorboat operators Bridge and lock tenders Other port/harbor/waterway/marina operations and support jobs Road Transportation: Transportation managers – road	Dispatchers — Truck/bus/taxi, traffic managers Truck drivers-heavy Truck drivers-heavy Truck drivers — light or delivery services Bus drivers — transit and intercity Bus drivers — school Taxi drivers and chauffeurs Truck/bus/taxi terminal operations and support jobs Transit Systems: Transportation managers — mass transit Dispatchers — bus Traffic managers Dispatchers — rail Traffic managers Bus drivers — transit and intercity Subway and streetcar operators Other
Logistics Planning and Management Services	Logisticians Logistics managers	Logistics engineers Logistics analysts	Logistics consultants International logistics
Warehousing and Distribution Center Operations	Warehouse managers Storage and distribution managers Industrial and packaging engineers Traffic, shipping and receiving clerks Production, planning, expediting clerks	First-line supervisors/ managers of helpers Laborers and material movers – hand First-line supervisors/ managers of transportation and material-moving machine and vehicle operators	Laborers and freight, stock and material movers – hand Car, truck and ship loaders Packers and packagers – hand Other packaging/packing/material handling and moving jobs
Facility and Mobile Equipment Maintenance	Facility: Facility: Facility maintenance managers and engineers Industrial equipment mechanics Industrial electricians Electrical/electronic technicians Other facility/terminal maintenance jobs Mobile Equipment: General Mobile equipment maintenance managers Electrical and electronic installers and repairers — transportation equipment Mobile heavy equipment mechanics Air/Space Aerospace engineering and	operations technicians Aircraft mechanics and service technicians Airframe mechanics Power plant mechanics Aircraft engine specialists Aircraft body and bonded structure repairers Avionics technicians Water Motorboat mechanics Ship mechanics and repairers Motorboat mechanics Automotive/truck mechanics and body repairers Rail Rail car repairers Signal and track switch repairers	Rail locomotive and car mechanics and repairers Road Electronic equipment installers and repairers — motor vehicle Automotive body and related repairers Automotive glass installers and repairers Automotive service technicians and mechanics Automotive master mechanics Automotive specialty technicians Bus and truck mechanics and diesel engine specialists Motorcycle mechanics Bicycle repairers Tire repairers and changers
Transportation Systems/ Infrastructure Planning, Management and Regulation	General Intermodal – Urban and regional planners Civil engineers Engineering technicians Surveying and mapping technicians Government service executives Environmental compliance inspectors	Air/Space • Air traffic controllers • Aviation inspectors Road • Traffic engineers • Traffic technicians • Motor vehicle inspectors • Freight inspectors Rail • Railroad inspectors	Water Marine cargo inspectors Vessel traffic control specialists Transit Public transportation inspectors Other Other government agency managers Regulators Inspectors, other federal/state/local transportation agency jobs
Health, Safety and Environmental Management	Health and safety managers Industrial health and safety engineers Environmental scientists and specialists	 Environmental science and protection technicians Environmental managers and engineers 	Environmental compliance inspectors Safety analysts
Sales and Service	Marketing managers Sales managers Sales representatives – transportation/logistics services	Reservation, travel and transportation agents/clerks Cargo and freight agents Customer service managers	Customer service representatives Customer order and billing clerks Cashiers, counter and rental clerks

Wyoming's Highest-Paying, Fastest-Growing Jobs

Ī	Title	Basic Description	Ī	Anticipated Total 2012	1	
L			l	Employment	Ц	
	Source: See footnote #1 Truck Drivers, Heavy and Tractor-Trailer	Source: See footnote #2 Drive a tractor-trailer combination or a truck with a capacity of at least 26,000 GVW, to transport and deliver goods, livestock, or materials in liquid, loose, or packaged form. May be required to unload truck. May require use of automated routing equipment. Requires commercial drivers' license.		6,680		
	Automotive Service Technicians and Mechanics	Diagnose, adjust, repair, or overhaul automotive vehicles.		2,080	l	
	Truck Drivers, Light or Delivery Services	Drive a truck or van with a capacity of under 26,000 GVW, primarily to deliver or pick up merchandise or to deliver packages within a specified area. May require use of automatic routing or location software. May load and unload truck.		1,880		
	Bus and Truck Mechanics and Diesel Engine Specialists	Diagnose, adjust, repair, or overhaul trucks, buses, and all types of diesel engines.		890		
	Automotive Body and Related Repairers	Repair and refinish automotive vehicle bodies and straighten vehicle frames.		470		
	Cleaners of Vehicles and Equipment	Wash or otherwise clean vehicles, machinery, and other equipment. Use such materials as water, cleaning agents, brushes, cloths, and hoses.		510		
l	Tire Repairers and Changers	Repair and replace tires.		480		
l	Laborers and Freight, Stock, and Material Movers, Hand	Manually move freight, stock, or other materials or perform other unskilled general labor. Include all unskilled manual laborers not elsewhere classified.		2,310		
l	Industrial Truck and Tractor Operators	Operate industrial trucks or tractors equipped to move materials around a warehouse, storage yard, factory, construction site, or similar location.		1,070		
	Bus Drivers, School	Operate industrial trucks or tractors equipped to move materials around a warehouse, storage yard, factory, construction site, or similar location.		1,130		
	First-Line Supervisors/Managers of Transportation and Material Moving Machine and Vehicle Operators	Directly supervise and coordinate activities of transportation and material-moving machine and vehicle operators and helpers.		640		
	Service Station Attendants	Service automobiles, buses, trucks, boats, and other automotive or marine vehicles with fuel, lubricants, and accessories. Collect payment for services and supplies.		420		

State Occupational Projections: http://www.projectionscentral.com/projections.asp; ONET Codes & Titles: http://www.onetcodeconnector.org/ (This number does not include positions available due to employee turnover.)
 Wyoming Department of Employment, Research and Planning: http://doe.state.wy.us/lmi/200404/TOC000.htm

^{3.} America's Career Infonet: http://www.acinet.org/acinet/default.asp
4. Adapted from Career Information System. Estimated where exact matches were not available. List may be modified or shortened.

TRANSPORTATION, DISTRIBUTION & LOGISTICS

Wyoming Number of New Jobs, Projected 2002-2012 Source: See footnote #1	Wyoming Estimated Hourly Average Wage	Wyoming Estimated Yearly Wage	Most Common Education/ Training Source: See footnote #3	Suggested Programs of Study Source: See footnote #4	Is at least one of these programs available in Wyoming?
900	\$16.02	\$33,321	Moderate-term on-the-job training	Vehicle and Equipment Operations Apprenticeship Programs	Yes
370	\$16.92	\$35,184	Postsecondary vocational award	Automotive and Diesel Technology Apprenticeship Programs	Yes
370	\$12.11	\$25,193	Short-term on- the-job training	Vehicle and Equipment Operations	Yes
110	\$18.27	\$38,005	Postsecondary vocational award	Automotive and Diesel Technology Apprenticeship Programs	Yes
90	\$16.25	\$34,015	Long-term on-the- job training	· Auto Body Repair	Yes
80	\$8.62	\$17,939	Short-term on- the-job training	Automotive and Diesel Technology Vehicle and Equipment Operations	Yes
70	\$12.34	\$25,674	Short-term on- the-job training	High School Diploma or GED, On-the-Job-Training	Yes
60	\$10.19	\$21,200	Short-term on- the-job training	Vehicle and Equipment Operations Apprenticeship Programs	Yes
60	\$16.59	\$34,507	Short-term on- the-job training	Vehicle and Equipment Operations Apprenticeship Programs	Yes
60	\$9.96	\$20,725	Short-term on- the-job training	Vehicle and Equipment Operations	Yes
50	\$23.53	\$48,945	Work experience in a related occupation	Aviation Operations and Services Business Management and Administration Logistics and Materials Management	Yes
40	\$8.10	\$16,839	Short-term on- the-job training	Automotive and Diesel Technology	Yes

For additional information and resources, go to: http://www.wyomingworkforce.org/careerclusters

PROGRAMS OF STUDY WYOMING COMMUNITY COLLEGES

TRANSPORTATION, DISTRIBUTION & LOGISTICS

MAJORS
Auto Parts Management
Automotive Body Repair
Automotive Technology
Aviation
Customer Service
Customer Service: Business Environment
Customer Service: Business Skills
Customer Service: Computer Skills
Customer Service: Contact Skills
Customer Service: Specialist
Diesel & Heavy Equipment Maintenance & Repair (Diesel and Heavy Equipment - CC)
Diesel Power
Diesel Technology
Engineering
Engineering Technology
Engineering Technology - Drafting Option
Environmental Science
Geographical Information Systems (GIS)
Heavy Equipment Grades Credential
Heavy Equipment Operations Level I Credential
Heavy Equipment Operations Level II Credential
Heavy Equipment Operations Level III Credential
Heavy Equipment Operations Safety Credential
Heavy Equipment Soils Credential
Heavy/Truck/Tractor/Trailer Driving, Advanced
Heavy/Truck/Tractor/Trailer Driving, Basic Skills
Heavy/Truck/Tractor/Trailer Driving, Recertification
Integrated Systems Technology (@LCCC)
Performance Automotive Technology
Railcar Maintenance and Repair

Casper College	Central Wyoming College	Eastern Wyoming College	Laramie County Community College	Northwest College	Sheridan College	Western Wyoming	Community College
AS - As	sociate o	f Sciences	AAS -	Associate	of Applie	d Scie	nc

AA - Associate of Arts				C - Certificate			
	AAS						
			AAS/C				
AAS/C	AAS/C		AAS/C			AAS/C	
AAS							
			С				
	С						
	С						
	С						
	С						
	С						
С						AAS/C	
AAS							
			AAS/C		AAS/C	С	
AS			AS	AS/AAS	AA/AS	AS	
AS/C						AAS	
			AAS/C				
AAS	AS					AS	
AS/C							
	С						
	С						
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	С						
	С						
			AS				
	С						
	С						
	С						
ΔΔς							



Truck Driving
Water Quality Technology

UNIVERSITY OF WYOMING

C	OLLEGE OF ARTS AND SCIENCES	Bachelor's	Master's	Doctorate
_	OFFICE OF ANTO AND COTENOES			
	Math -			<u>_</u>
	Planning Community and Rural —		<u> </u>	
П	Statistics —			_
RS	Accounting —		<u> </u>	
MAJORS	Business Economics —			
Σ	Economics -			
Ш	Finance —			
	Management-			
	Marketing —			
	COLLEGE OF ENGINEERING			
	Architectural Engineering —			
	Civil Engineering -			
	Computer Science			
RS	Computer Science Professional			
MAJOI	Management Information Systems			
Σ	Management Information Systems Business	-		
	Management Information Systems Computer Science	•		
	Mechanical Engineering —	•		•
	Petroleum Engineering —			•

Degree: An award conferred by a college or university signifying that the recipient has satisfactorily completed a defined academic or vocational-technical program of study: Associate of Arts, Associate of Science, Associate of Applied Science, Bachelor of Arts, or Bachelor of Science.

Certificate: An official document issued to a student by a college or university attesting to the training, aptitude and/or qualification gained from the satisfactory completion of a defined program of study. Credit hours vary from 0 to 60 credit hours and are awarded for attendance or specific skills gained. (Attendance requirements vary from one hour to two years of study, depending upon program requirements.)

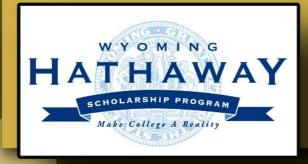
This information is presented as the result of a collaborative effort among the following agencies:













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Future versions of the Wyoming Career Cluster Guides and accompanying Planning Guide may be modified in terms of content and format based upon user input. Please direct all suggestions and inquiries in writing to:

Career Cluster Coordinator

Wyoming Department of Education
2300 Capitol Avenue

Hathaway Building, 2nd Floor
Cheyenne, WY 82002-0050



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for Civil Rights Coordinator, 2300 Capitol Ave., Cheyenne, WY 82002-0050 or 307-777-7673, or the Office of Civil Rights, Region VIII, U. S. Department of Education, Federal Building, Suite 310, 1244 Speer Boulevard, Denver, CO 80204-3582, or 303-844-5695 or TDD 303-844-3417. This information will be provided in an alternative format upon request.



States' Career Clusters Initiative 2006 www.careerclusters.org