



Transportation, Distribution & Logistics Career Cluster

PLAN OF STUDY

<http://www.nd.gov/cte/services/career-clusters/>

<http://www.careerclusters.org>

(7/10/2010 CTE revision)

Name _____

School _____

Date _____



SAMPLE OCCUPATIONS RELATING TO THIS CAREER CLUSTER	
Pathway	Occupations (also include Trade and Industry, Agriculture, Tech Ed., and Trade & Industry teachers)
FACILITY & MOBILE EQUIPMENT MAINTENANCE	Automotive Technician • Collision Repair Technician • Diesel Technician • Recreational Engines Technician • Marine Engine Technician • Industrial Electricians
HEALTH, SAFETY & ENVIRONMENTAL MANAGEMENT	Industrial Health & Safety Engineer • Safety Analyst • Environmental Scientist/Technician • Environmental Compliance Inspectors • Environmental Engineer
LOGISTICS PLANNING & MANAGEMENT SERVICES	Logistic Engineers • Logistics Analysts • Logisticians • Logistic Consultants • International Logistics Specialists
SALES & SERVICE	Marketing Manager • Sales Representative • Travel Agent • Customer Service Representative • Customer Service Manager • Cashier • Clerk
TRANSPORTATION OPERATIONS	Pilot • Flight Engineer • Truck Driver • Bus Driver • Dispatchers • Air Traffic Controllers • Transportation Managers • Locomotive Engineers
TRANSPORTATION SYSTEMS/INFRASTRUCTURE PLANNING, MANAGEMENT & REGULATION	Urban Planner • Civil Engineer • Air Traffic Controllers • Freight Inspectors • Motor Vehicle Inspector • State/Federal Regulatory Inspectors
WAREHOUSING & DISTRIBUTION CENTER OPERATIONS	Warehouse Manager • Shipping & Receiving Clerk • Production/Planning Clerks • Laborers & Material Handlers • Industrial and Packing Engineers

SUGGESTED COURSE OF HIGH SCHOOL STUDY						
It is suggested that students consider appropriate units of dual credit, articulation, or advanced placement opportunities for postsecondary credit.						
English (*four units required to graduate; including literature, composition, and speech) Choices may include:	Math (*three units required to graduate) Choices may include:	Science (three units required to graduate) *Required units Choices may include:	Social Studies (three units required to graduate) *Required units Choices may include:	Physical Education (one unit required to graduate) *Required units	Career & Technical Education and Other Electives (three units of foreign or Native American language, fine arts, or career and technical education are required to graduate)	Additional Suggested Learning Opportunities
<input type="checkbox"/> English 9 <input type="checkbox"/> English 10 <input type="checkbox"/> English 11 <input type="checkbox"/> English 12 <input type="checkbox"/> Speech or Debate <input type="checkbox"/> Business English <input type="checkbox"/> Grammar <input type="checkbox"/> Creative Writing <input type="checkbox"/> AP English <input type="checkbox"/> Dual Credit Classes	<input type="checkbox"/> Pre-Algebra <input type="checkbox"/> Consumer Math <input type="checkbox"/> Applied Math College Prep: <input type="checkbox"/> Algebra I & II <input type="checkbox"/> Geometry <input type="checkbox"/> Advanced Math <input type="checkbox"/> Probability & Stat <input type="checkbox"/> Trigonometry <input type="checkbox"/> Dual Credit Classes	<input type="checkbox"/> *Physical Science <input type="checkbox"/> * Biology <input type="checkbox"/> *1 additional unit <input type="checkbox"/> Advanced Biology <input type="checkbox"/> Physics <input type="checkbox"/> Advanced Physics <input type="checkbox"/> Chemistry <input type="checkbox"/> Dual Credit Courses	<input type="checkbox"/> *U.S. History <input type="checkbox"/> *Amer. Gov 1/2 & <input type="checkbox"/> *Economics ½, or <input type="checkbox"/> *Problems of Dem <input type="checkbox"/> *1 additional unit <input type="checkbox"/> Psychology <input type="checkbox"/> ND or World Hist. <input type="checkbox"/> Geography <input type="checkbox"/> Dual Credit Classes	<input type="checkbox"/> *Physical Education 1 unit or <input type="checkbox"/> *Physical Ed ½ unit and <input type="checkbox"/> *Health ½ unit	<input type="checkbox"/> Agricultural Engines and General Mechanics <input type="checkbox"/> Auto Technology I & II <input type="checkbox"/> Auto Collision and Repair I & II <input type="checkbox"/> Agricultural Welding <input type="checkbox"/> Welding I & II <input type="checkbox"/> Engineering Technology <input type="checkbox"/> Introduction to Computer Applications <input type="checkbox"/> Business & the World of Work <input type="checkbox"/> Foreign Language <input type="checkbox"/> Aerospace Science I, II, III & IV (JROTC)	School-Based: <input type="checkbox"/> SkillsUSA or TSA <input type="checkbox"/> Career Research <input type="checkbox"/> Cooperative Education <input type="checkbox"/> Internship <input type="checkbox"/> Job Shadowing <input type="checkbox"/> Service Learning Project Community-Based: <input type="checkbox"/> Mentorship <input type="checkbox"/> Volunteer or Part-time Employ

EXAMPLES OF NORTH DAKOTA APPRENTICESHIP OPPORTUNITIES AND POSTSECONDARY PROGRAMS RELATED TO THIS CAREER CLUSTER				
Pathway	Apprenticeship Opportunities	Associate Degree or Less	Bachelors Degree	Masters Degree or More
FACILITY & MOBILE EQUIPMENT MAINTENANCE	<input type="checkbox"/> +Automobile Body Repairer <input type="checkbox"/> +Refrigeration Mechanic <input type="checkbox"/> Electronics Mechanic Associate Degree or Less → <input type="checkbox"/> +Mechanical Systems (NDSCS) <input type="checkbox"/> +John Deere Tech (NDSCS)	<input type="checkbox"/> +Auto. Tech. (BJCC, BSC, CCCC, LRSC, NDSCS, UTTC, WSC) <input type="checkbox"/> +Auto Body Repair & Refinishing Tech. (BSC, NDSCS) <input type="checkbox"/> +Caterpillar Dealer Service Technician (NDSCS) <input type="checkbox"/> +Recreational Engines Technology (NDSCS) <input type="checkbox"/> +Diesel Technology (NDSCS, WSC)		
HEALTH, SAFETY & ENVIRONMENTAL MANAGEMENT			<input type="checkbox"/> +Environmental Design (NDSU)	
LOGISTICS PLANNING & MANAGEMENT SERVICES				<input type="checkbox"/> Transportation & Logistics Supervision (NDSU)
SALES & SERVICE		<input type="checkbox"/> +Ag Mechanics Sales & Service (NDSCS)	<input type="checkbox"/> +Business Administration (DSU, MaSU, NDSU, TBC)	<input type="checkbox"/> +Business Administration (MiSU, NDSU, UM, UND)
TRANSPORTATION OPERATIONS	<input type="checkbox"/> Truck Driver, Heavy	<input type="checkbox"/> Truck Driver (G's Driving School – Minot) <input type="checkbox"/> Airport/Aviation Management Aviation (WSC)	<input type="checkbox"/> Aeronautics (UND) <input type="checkbox"/> Airport/Aviation Mgt.(UND)	<input type="checkbox"/> Aviation (UND)
TRANS.SYSTEMS/INFRASTRUCTURE PLANNING, MGT. & REGULATION		<input type="checkbox"/> +Civil Engineering & Surveying Technology (NDSCS) <input type="checkbox"/> Transportation & Logistics Supervision (BSC)	<input type="checkbox"/> +Civil Engineering (NDSU, UND)	<input type="checkbox"/> Transportation & Logistics Supervision (NDSU)
WAREHOUSING & DISTRIBUTION CENTER OPERATIONS	For more about Apprenticeships: http://bat.doleta.gov/bat.cfm	<input type="checkbox"/> Transportation & Logistics Supervision (BSC)		<input type="checkbox"/> Transportation & Logistics Supervision (NDSU)

+ These major fields may also be found in related clusters including: Ag, Food & Natural Resources; Business, Admin, & Management; Transportation, Dist. & Logistics.

BJCC – Burdick Job Corps Center, BSC – Bismarck State College, CCCC – Cankdeska Cikana Community College, DCB – Dakota College at Bottineau, DSU – Dickinson State University, LRSC – Lake Region State College, NDSCS – MaSU – Mayville State University, MiSU – Minot State University, North Dakota State College of Science, NDSU – North Dakota State University, TBC – Trinity Bible College, UM – University of Mary, UND – University of North Dakota, UTTC – United Tribes Technical College, VCSU – Valley City State University, WSC – Williston State College. (7/10/2010 CTE revision)