

MISSION STATEMENT

TrainND provides training for North Dakota business and industry, enhancing their ability to compete globally.



It's a competitive world.

TRAIN for it!

2011 YEAR END REPORT

- **330** businesses received services in **643** training sessions.
- Training sessions consisted of **9,040** participants which include **6,421** unduplicated participants.
- There were **111,903** contact hours of training in the region.
- Of the participants served **97 %** were satisfied with the training.
- Of the businesses served, **99 %** were satisfied with the training, with **98 %** satisfied with the responsiveness of TrainND ~ Northwest in meeting their needs. These results demonstrate responsiveness by the Division to a strong demand for workforce training in the state.
- **216** businesses requested additional training.

FY COMPARISONS

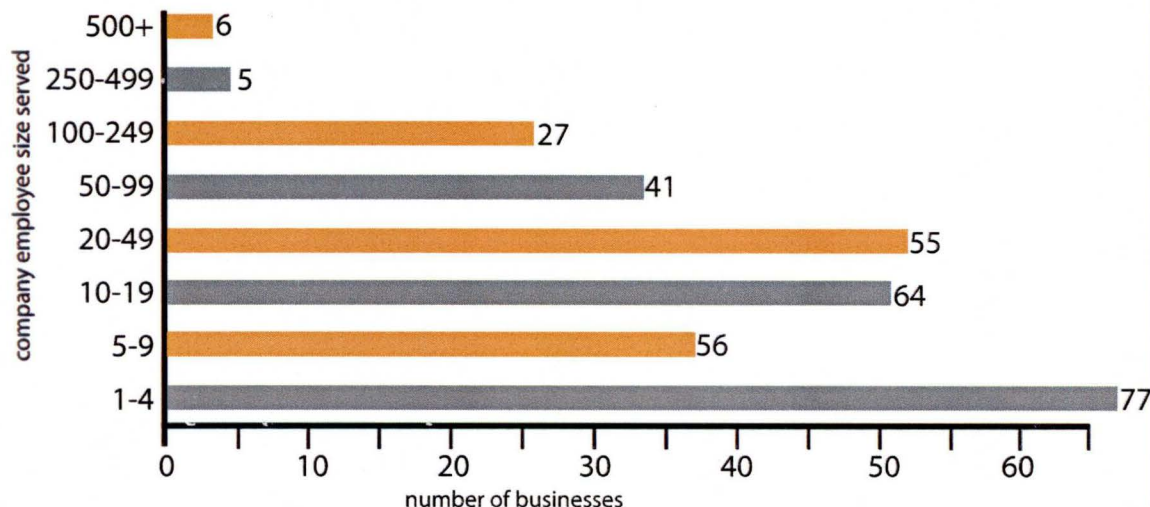
	2010	2011
number of businesses	271	330
participants (unduplicated)	5,212	6,421
participants (duplicated)	7,376	9,040
businesses requesting additional training	184	216
companies served with <50 employees	205	252
total revenue	\$1,656,177	\$2,626,050
direct training revenue	\$1,406,195	\$2,037,056
training sessions	583	643
contact hours	87,494	111,903

Clients Trained

The following table represents the number of companies in FY 10 for which training was provided and their respective North American Industrial Code Standard number.

NAICS	Description	No. of Companies	Percent
11	Ag, Forestry, Fishing, Hunting	3	1%
21	Mining	225	68%
22	Utilities	4	1%
23	Construction	14	4%
32	Wood, Printing, Manufacturing	2	1%
42	Wholesale Trade	1	1%
45	Luxury/Accessory Trade	1	1%
48	Transportation	42	13%
51	Information	1	1%
54	Professional, Scientific, and Technical	4	1%
61	Educational Services	8	1%
62	Health care & Social Assistance	13	4%
81	Services and Repairs	3	1%
92	Gov't Public Administration (Fire, Police, etc.)	9	3%
TOTAL		330	100%

OUR CUSTOMERS



PETROLEUM SAFETY & TECHNOLOGY CENTER

Safety training is the foundation of the Petroleum Safety and Technology Center of Excellence. TrainND is in the process of developing and delivering, additional technical programs for the oil and gas industry.

Class	Sessions	Participants
10 Hour OSHA General Safety Class	86	2,808
16 Hour OSHA General Safety Class	23	154
24 Hour General Safety Class	13	21
40 Hour General Safety Class	45	632
TOTAL	167	3,615*

Technical/Specialty Training:

Medic First Aid	86	871
Defensive Driving	52	327
Confined Space/Excavation	12	200
H2S/Fit Testing	81	938
Hazwoper	45	367
Fire Extinguisher Training	5	32
Forklift Safety	16	68
OSHA 500/501/511	5	41
Floorhand for Well Service	3	8
Marathon Oil Safety Orientation	64	1,624
Aerial Lift Training	4	17
SMART School	18	174
Well Control for Drillers/Workovers	13	125
Commercial Drivers License	20	68
CDL Evaluations	8	14
TOTAL	432	4,874*

*This is a duplicated head count.

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Division of Continuing Education & Training

The Northwest TrainND Provider

TRAINND - NORTHWEST

Fiscal Year	Number of Businesses	Number of Training Sessions	Number of Employees - Unduplicated	Duplicated Head Count	Contact Hours
2003	129	222	1,288	1,994	17,959
2004	194	230	1,362	1,847	29,556
2005	177	280	1,530	2,336	32,869
2006	152	354	2,307	3,157	38,179
2007	155	372	2,865	4,022	41,719
2008	191	458	4,014	5,541	60,584
2009	248	521	4,344	6,769	71,778
Projected FY10	275	580	5,000	7,500	85,000
FY 2010	271	583	5,212	7,376	87,494
Projected FY11	325	650	6,500	10,000	110,000
FY 2011	330	643	6,421	9,040	111,903
Projected FY 12	370	750	9,130	11,300	125,000
2012 (7/1/11-5/23/11)	446	800	9,022	12,445	142,869

Each month approximately 850 employees complete one or more training class.

TrainND is housed in the Crighton Building (10,074 square feet).

The Petroleum Safety and Technology Center has 7,500 square feet.

ELECTRONIC & INSTRUMENTATION CERTIFICATION

Introduction to Petroleum Industry
Electrical Fundamentals
Instrumentation & Controls
Industrial Automation
Process Equipment

WORKOVER TECHNICIAN CERTIFICATE

Introduction to Petroleum Industry
Recovery and Production Methods
Drilling
Preventative Maintenance & Troubleshooting
Well Completion & Workover

PETROLEUM TECHNOLOGY BASIC CERTIFICATE

Introduction to Petroleum Industry
Drilling
Oil Field Hydraulics
Industrial Safety
Process Equipment

COURSE DESCRIPTIONS

Introduction to Petroleum Industry

This course is designed to provide an introduction to the petroleum industry. The course will familiarize the student with the duties of an oil and gas production technician. Specifically students will be able to understand the concepts surrounding exploration and geology, fundamentals of drilling and well completion. And describe the equipment and systems used by the oil & gas production technician. Course begins with how the different structures were created and ending with marketing of the products.

Industrial Safety, Health & Environment

This course introduces the student to personal protective equipment and proper work practices and procedures commonly used in the oil & gas industry. Students will gain a working knowledge of standard safety practices set by the Occupational Safety and Health Administration.

Recovery & Production Methods

Petroleum recovery and production methods associated in the oil & gas industry. Students will be expected to describe natural reservoir drive mechanisms, and artificial lift methods; identify the components of lift surface systems; identify factors used to select lift methods; and describe basic recovery methods.

Drilling

A study of practices and procedures for drilling operations. Rig equipment, casing design, fishing, and proper procedures to successfully drill a well are discussed. Students will study fundamental operations in the drilling industry; identify the five major systems and equipment of a drilling rig; describe specific down-hole problems; and explain solutions. Instruction in volume calculations, hydrostatic pressures, formation pressures, and problems in down-hole drilling operations. Basic concepts of directional drilling will also be covered.





Instrumentation & Controls

This course provides a comprehensive study of instrumentation components, control theory, control systems and typical controllers associated with the operation of energy facilities.

**prerequisite required*

Oil Field Hydraulics

This course will cover hydraulics applicable to drilling, completion, and production. Emphasis on hydraulic control of equipment to include directional control valves, motors, cylinders and system control when using various hydraulic components. Students will understand the application of hydraulic systems associated with workover systems and equipment.

Electrical Fundamentals

This course covers basic direct current theories and applies those theories to the electrical systems and related equipment. Students will study methods of producing a voltage, such as batteries, magnetic fields, basic series and parallel circuits. Students will also study basic DC circuit calculations. This course will also cover basic alternating current (AC) theories and applies those theories to the electrical systems and related equipment. Basic generator and motor design, construction and operating principles will also be covered.

**Students need to have math skills equivalent to college algebra.*

ABOUT THE PROGRAM

The Lease Operator Program is designed to provide technically oriented entry-level employees with the basic knowledge and skills of production processes, safety and equipment operation required to efficiently and safely monitor, trouble-shoot, and operate oil and natural gas wells in their area of responsibility. It is designed to develop technical knowledge regarding oil and gas operations, and prepare students to develop careers as technicians in the petroleum industry. The Lease Operator Program offers the core courses related to oil and gas processing that prepares students for a career as a safe efficient, and environmentally responsible operator. Monitoring and maintaining well-sites is one of their primary responsibilities.



Well Completion & Workover

Covers the basics of acceptable planning, techniques, and equipment for completion and stimulation of newly cased wells; also covers planning, organizing, and supervising remedial and recompletion operations on old wells.

Process Equipment

This course is designed to explain the basic operating principles of equipment used in the process technology industry such as valves, piping, pumps, compressors, generators, motors, lubrication systems, heat exchangers, furnaces, boilers, cooling towers, separators, reactors and distillation columns. The mechanical design characteristics, scientific principles, and the interactions of the various pieces of equipment will be explored.

Industrial Automation

Applications of industrial automation systems including identification of system requirements, equipment integration, motors, controllers, and sensors. Explain industry's progression toward automation; employ control methods and procedures; operate motors and motor controls for automation; select appropriate sensors; and incorporate proper set-up, maintenance, and testing for automation.

Preventative Maintenance & Troubleshooting

Students will learn skills, techniques and procedures to properly perform routine maintenance and troubleshooting on surface production equipment.



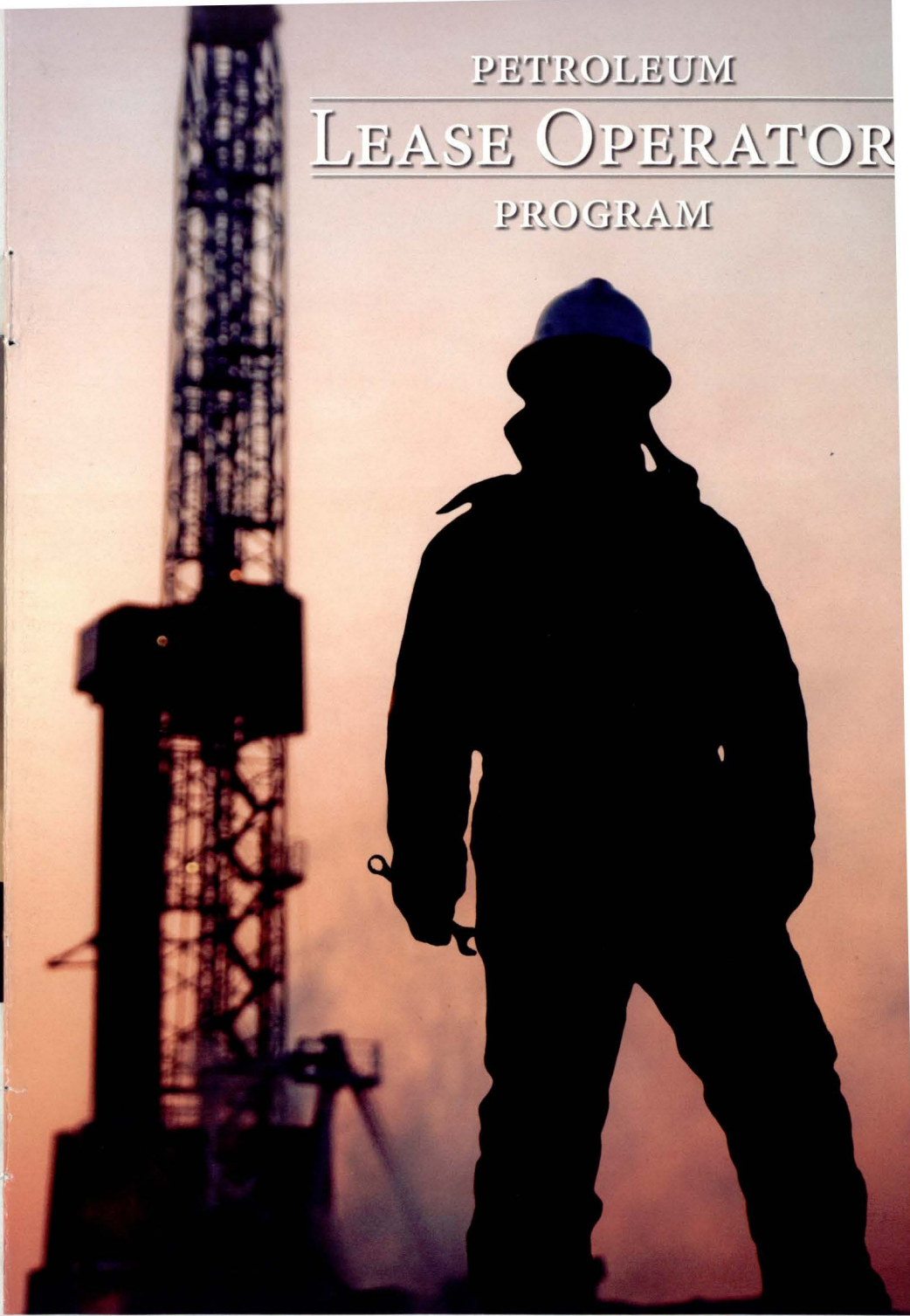


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NORTHWEST

Powered by Williston State College

PETROLEUM LEASE OPERATOR PROGRAM



[It's a competitive world. Train for it.]

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