



National Energy Business Centre of Excellence (NEBCE)

Wellsite Abandonment & Reclamation Training Program

Course Outline and Descriptions (8-day)

Participants are provided with an orientation by NEBCE and overview of the training program by the instructor. They also participate in a series of interactive project presentations provided by private sector industry partners, and Indigenous agencies who work in the oil and gas sector.

The seven-day course outline for the Wellsite Abandonment and Reclamation Training program is listed as follows and may be subject to change based on industry requirements:

DAY ONE

Wellsite Abandonment & Reclamation

Well Status

- ∞ Dry Hole
- ∞ Producing Wells
- ∞ Suspended Wells
- ∞ Abandoned Wells
- ∞ Directives/Regulations
 - Alberta AER Directive 13
 - British Columbia Dormant Site Provisions
 - Saskatchewan Oil & Gas Conservation Regulations

Magnitude of the Problem

- ∞ Alberta
- ∞ British Columbia
- ∞ Saskatchewan

Emergency Preparedness Requirements

- ∞ Directives/Regulations
 - Alberta AER Directive 71
 - British Columbia Emergency Response Manual
 - Saskatchewan Oil & Gas Conservation Regulations

Downhole Equipment and Abandonment

- ∞ Typical Downhole Equipment for Producing Wells
- ∞ Oil and Natural Gas
- ∞ Abandonment Requirements
- ∞ Downhole Procedures
- ∞ Alberta AER Directive 20
- ∞ British Columbia Chapter 9 Well Completion, Maintenance & Abandonment
- ∞ Saskatchewan Oil & Gas Conservation Regulations
- ∞ Drilling Waste Management – Directive 50
- ∞ Disposal Procedures
- ∞ Drilling Waste Inspections – Manual 002
- ∞ Oilfield Waste Liability Program – Directive 75
- ∞ Disposal Well Requirements – Directive 51
- ∞ Swan Hills Waste Recovery

Surface Equipment

- ∞ Producing Oil Wells
- ∞ Producing Gas Wells
- ∞ Abandonment Requirements – Directive 20

Pipeline and Gathering Systems Decommissioning and Abandonment

- ∞ Leases
- ∞ Gathering Systems

Surface Clean Up & Reclamation

- ∞ Surface Rights Agreements
- ∞ Provincial and Federal Environmental Requirements
- ∞ Inspection and Monitoring Requirements
- ∞ Red Water Court Environmental Clean-Up Requirements

Typical Costs and Case Studies

- ∞ Downhole Abandonment
- ∞ Surface Equipment, Facilities and Roads
- ∞ Pipelines

DAY TWO

Wellsite Abandonment & Reclamation - Alternative Applications

- ∞ Geothermal Energy
- ∞ Lithium Extraction
- ∞ Helium Production
- ∞ Hydrogen Extraction
- ∞ Solar Power
- ∞ Wind Power
- ∞ Surface Development Regulations
- ∞ Regulatory Issues

DAY THREE

Safety Orientation

Students are provided with the information required to work in a safe environment and the interactive session includes:

- ∞ Basic legislation, hazard identification and control, the selection, care and use of Personal Protective Equipment and selection, care, and usage of basic tools

Students are encouraged to be active in the program through discussion and exercises throughout the program. Specifically, students identify the causes and effects of incidents, locate basic legislation for the province they work in, identify where in a safety manual they would find procedures needed for their job tasks, identify assess, control and report hazards, select appropriate PPE, and discuss the proper use of tools common to their job.

Participants are assessed by their level of class participation and a written examination.

WHMIS (2015 Certified)

Students are provided with the information required to work safely with hazardous products found in the workplace. The interactive session includes:

- ∞ Why the WHMIS legislation was enacted
- ∞ What products are governed by WHMIS
- ∞ Responsibilities of the supplier, employer, and worker
- ∞ Labelling required
- ∞ Information on the SDS, where to find the information and what it means
- ∞ Worker education requirements
- ∞ Federal and Provincial/Territorial Legislation
- ∞ How to use the information provided

At the conclusion of the course, each student is required to complete a written exam (using the resources provided) and obtain a score of 80% to successfully obtain certification.

DAY FOUR & FIVE

Standard First Aid with CPR "A"

This two-day (16 hour) course uses a “hands-on” approach and covers:

- ∞ Emergency Scene Management (ESM), role and responsibilities of a First Aider
- ∞ Responsive and unresponsive casualty care
- ∞ Shock
- ∞ Severe bleeding
- ∞ Wound care
- ∞ Burns
- ∞ Bone and joint injuries including fractures, dislocation, sprains and strains
- ∞ Chest injuries
- ∞ Poisonings
- ∞ Heat and cold injuries
- ∞ Rescue carries
- ∞ Medical conditions
- ∞ Adult resuscitation including choking, CPR, 2 rescuer CPR and AED training

Each student is required to write an examination on the principles covered with a minimum score of 70% to achieve certification.

DAY SIX

H2S Alive

The Hydrogen Sulfide safety training will provide students with the critical information needed to help recognize the presence of Hydrogen Sulfide on the job site. It is important to understand the precautions necessary to work in a safe environment, where Hydrogen Sulfide is present and how to respond in an emergency. The session will include the following learning components:

- ∞ Properties of H2S
- ∞ Health hazards associated with exposure
- ∞ Detection and monitoring methods
- ∞ Acceptable exposure limits

At the conclusion of the course, each student is required to complete a written exam (using the resources provided) and obtain a score of 80% to successfully obtain certification.

DAY SEVEN

Ground Disturbance 201 – ABCGA Endorsed – What you will learn:

- The damage prevention process and the potential consequences of damaging buried facilities.
- The roles and responsibilities of stakeholders in respect to ground disturbance and damage prevention.
- How to manage a ground disturbance based on regulatory, best practices and industry guidelines.
- The purpose of locates, what those marks and the locate documentation mean.
- What documentation is necessary on a ground disturbance site.

Earn your supervisor-level ground disturbance certificate, endorsed to the ABCGA’s Ground Disturbance 201 Standard. Those that disturb the ground need consistent, accurate information that helps them minimize the risks of contacting buried facilities associated with ground disturbance activities.

DAY EIGHT

Confined Space

- This course provides the knowledge needed to identify confined spaces and to assess and control confined space hazards according to safe work practices.
- Participants will learn how to identify, understand and mitigate the potential hazards of working in restricted and confined spaces.
- Developed using the Canadian Standards Association's Z1006-16 Management of Work in Confined Spaces and the Canadian Association of Oil and Gas Producers' Code of Practice for Confined Space.

At the conclusion of the course, each student is required to complete an exam with a minimum score of 70% to receive a certificate that is valid for three years.

Thank you in advance for your participation and we look forward to working in partnership with your community and wish all participants a successful learning experience!!

Please note: The schedule may be subject to change to adapt to emergencies or any other unforeseen circumstances.