

WATER/WASTEWATER TREATMENT PLANT OPERATOR TRAINING



ATLANTIC FIRST NATIONS
WATER AUTHORITY

SUMMARY



- ▶ The operation and maintenance of water and wastewater systems in communities requires trained, self-confident CERTIFIED operators.
- ▶ The operation and maintenance of water and wastewater systems in communities requires ongoing 24 hr technical support

SUMMARY cont.

- ▶ AFNWA training assists in providing the necessary skills and knowledge to First Nations operators to operate and maintain community facilities at a level that will ensure reliable and continuous services, stabilize operations and maintenance costs and control capital rehabilitation costs.

OPERATOR TRAINING GOALS

- ▶ Develop basic trade knowledge and background for OIT certification (in home community)
- ▶ Develop operation and knowledge skills for class I certification
- ▶ **Establish** Follow-up Training Program to meet operators training needs

ADDITIONAL TRAINING



- ▶ Training in Management Skills for Plant Operations/Administration
- ▶ Classification Preparation for Future Class Advancement Examination

TRAINING PACE



Training is provided at a pace whereby each individual trainee, regardless of their educational background, will complete the course with a sound understanding of the operations of their system and a broader understanding of the industry as a whole.

TRAINING JUSTIFICATION



- Develop Operator skills and confidence
- Increase standard of service
- Increase community health and safety
- Obtain required Provincial Operator certification levels
- stabilize recapitalization of assets
- allow a higher standard of service
- meet health and safety standards

TRAINING JUSTIFICATION

cont.

- contributing to lower maintenance costs
- reliable services
- develop certified First Nation Operators
- provide provincially certified operators
- develop capacity to train others
- establish self sustaining circle of excellence

TRAINING WORKSHOP PERKS

- ▶ operators have the opportunity to be trained on a one to one principle at a comprehending learning pace
- ▶ operators learn the theory based on the design of their own specific type of plant to be operated
- ▶ Theory topics
 - ▶ are reviewed several times every day
 - ▶ important objectives are repeated
 - ▶ an examination follows each course and Provincially accredited certificates are issued
 - ▶ if necessary more coverage can be given to ensure student competency and confidence

OPERATOR IN TRAINING - TRAINING FOCAL POINTS

- ▶ Basic Water Treatment
- ▶ Surface/Ground Water Treatment
- ▶ Basic Wastewater
- ▶ Operation and Maintenance of Wastewater Pumping Station
- ▶ Confined Space Entry
- ▶ Preventive Maintenance
- ▶ Water, Wastewater Treatment Methods
- ▶ Trade Calculations
- ▶ Laboratory skills
- ▶ Disinfection

CLASS 1 & 2 - TRAINING FOCAL POINTS

- ▶ The trainee will learn how to manage the overall operations including:
 - ▶ Purchasing skills
 - ▶ Maintenance Management skills
 - ▶ Operational Management skills
 - ▶ Computer skills
 - ▶ Financial Management skills (Budgets, Controls)
 - ▶ Supervisory skills
 - ▶ Contract Administration
 - ▶ Public Relations (how to deal with suppliers, employer, employees as well as the general public)