



**CAREERS**  
*the Next  
Generation*



## ***High School Dual Credit Program: Water & Wastewater Operations***

PRESENTATION TO :

***Water North Coalition***

***Faust Alberta  
December 10, 2015***

***Alex. Gordon  
Team Lead Aboriginal Program***

# CAREERS: The Next Generation

- A student focused, industry and community partnership
- Incorporated in 1997; Board of Directors representing industry and participating government ministries
- Vision: “Strong vibrant communities where youth develop successful careers”
- Mission: “Enable youth on their path to rewarding careers”
- Core Programming: Trades (RAP), Technical and Technologies (4<sup>th</sup> Class PE, OGPO, WWO, PFO, Health Care, Forestry)
- Key Partners: schools, industry, government ministries, associations and communities



# Provincial Dual Credit Strategy

- Increase learner retention and completion rates
- Increase participation in post-secondary programs
- Assist youth to make connections to current and emerging labour markets
- Expand local partnerships to offer dual credit programming.



## The Opportunity

- Early entry into a career pathway
- High school credits toward graduation
- Post-secondary certification for technical training
- Become attached to a local committed industry
- Build essential employability skills
- Acquire a paid summer internship
- Grow and work in your community

# Connecting Learning and Work



**Dual Credit Study**  
(online theory coursework)

+



**Work Experience**  
(internship with local industry)



## Program Partners

- Local and Regional High Schools
- Northern Alberta Institute of Technology
- Local and Regional Employing Industry
- Government of Alberta Dual Credit Strategy
- CAREERS: The Next Generation
- Potential: Northern Lakes College

# WATER & WASTEWATER OPERATIONS



- **AQUATERA**
- **Video Clip: Opportunities in Water Operations**
- **CAREERS Pathway Structure**

# Video Clip

Opportunities and Options:  
[Water Operations Careers](#)

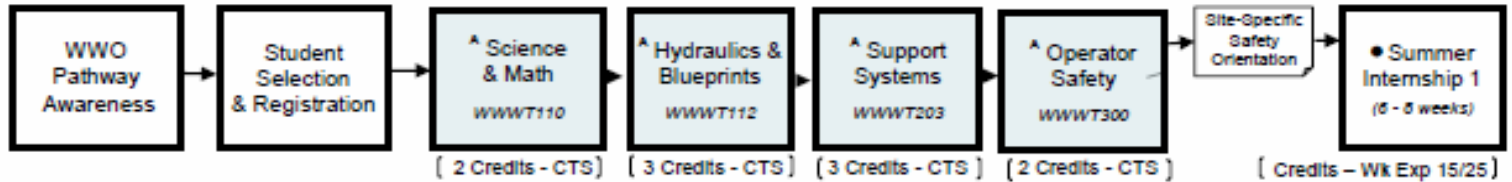


# WWO High School Dual Credit Pathway

## YEAR I

### Introduction to Water and Wastewater Operations

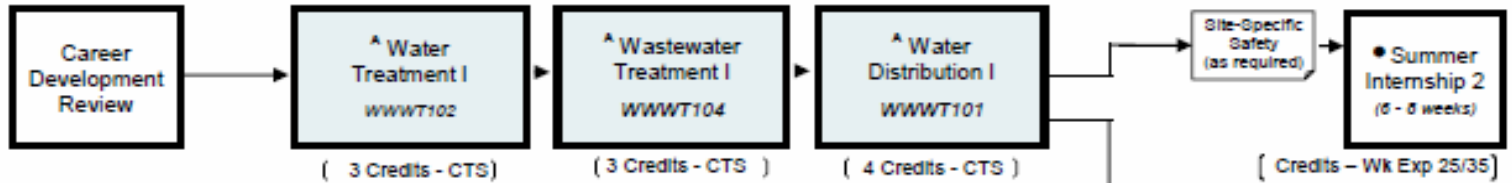
(emphasis on applied science, math and blueprint reading, use of pumps and piping systems, safety practices and risk management)



## YEAR II

### Water Treatment and Distribution Processes

(emphasis on water and wastewater treatment, operational principles of water distribution systems and equipment, inspection and maintenance)

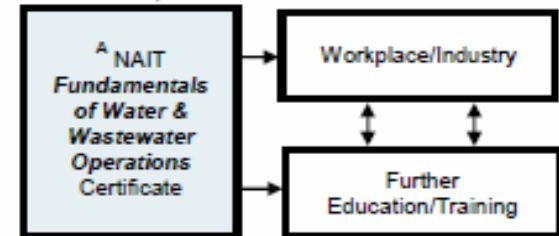


## YEAR III

### Optional Industry Specialization in an area of student/employer preference and choice:

- specialization in water treatment and providing NAIT Water Treatment Certificate, OR
- specialization in wastewater treatment and providing NAIT Wastewater Treatment Certificate, OR
- specialization in water distribution and collection and leading to NAIT Water Distribution and Collection Certificate.

Note: To complete requirements of the Water Distribution and Collection certificate, students will require a 4<sup>th</sup> year of high school study or enroll in additional courses directly with NAIT following high school graduation.



#### Legend:

<sup>A</sup> Aligned with the NAIT syllabus of learning for the Fundamentals of Water and Wastewater Operations Certificate Program and delivered through online distance learning by NAIT Department of Corporate, International and Continuing Education.

• Student registration in off-campus education Work Experience courses required for Government of Alberta WCB coverage to be in effect

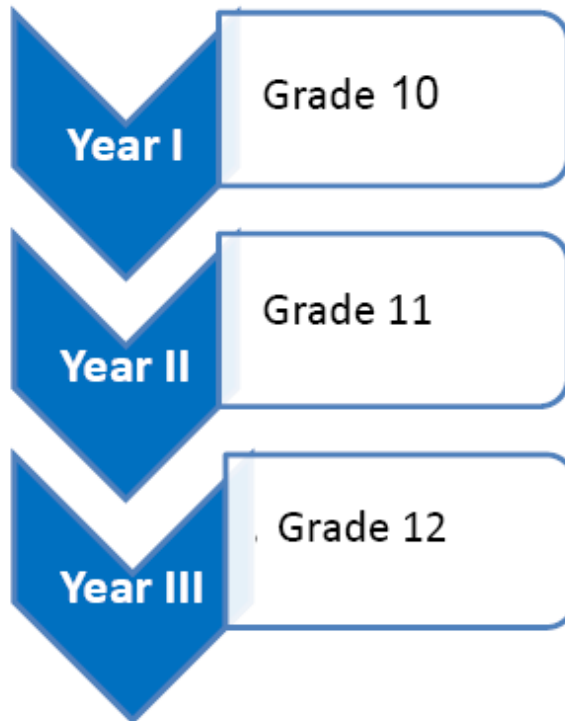
# Water and Wastewater Operations

## Level I Certification

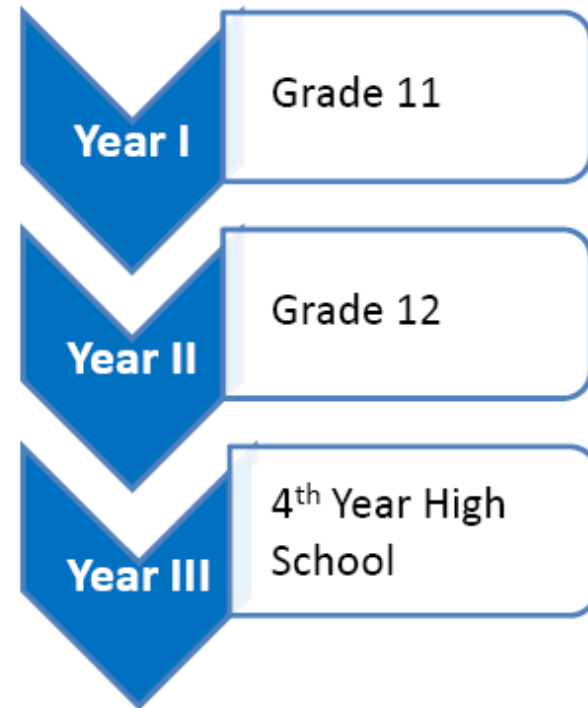
- Requirements for provincial Level I operator certification:
  - completion of Level I training requirements
  - a high school diploma or GED
  - one year of acceptable operating experience
  - successfully writing the provincial Level I certification exam
  
- Transition to Level II, III and IV certification possible upon meeting the requisite training, experience and exam requirements.

# Programming Options

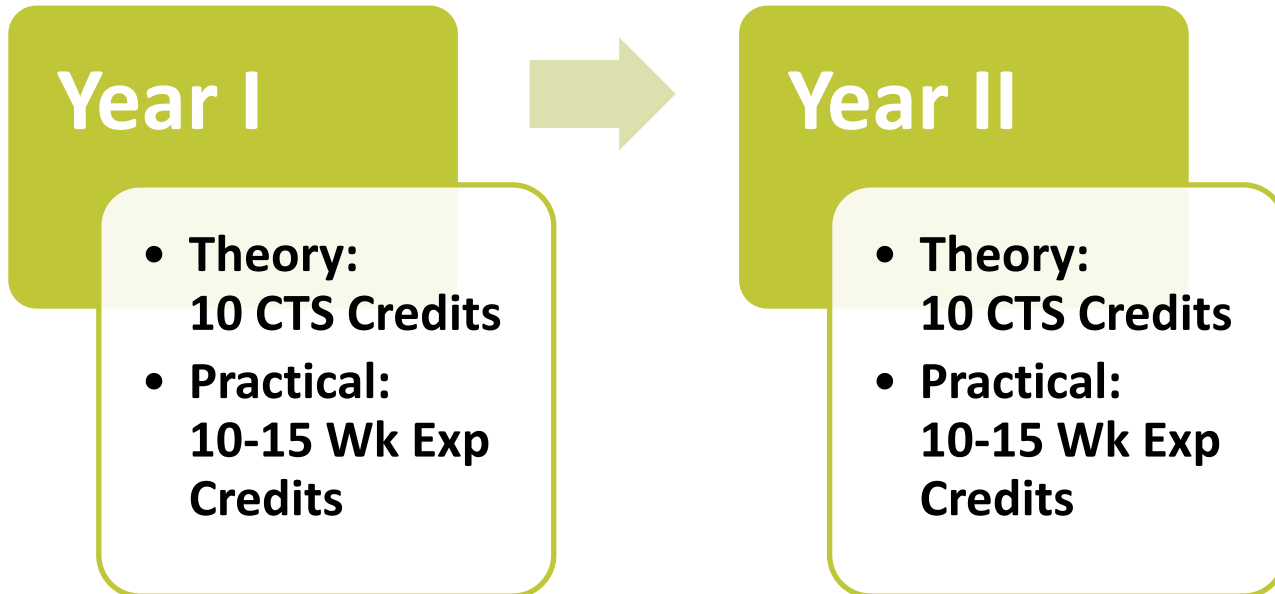
## Scenario A



## Scenario B



# High School Credits

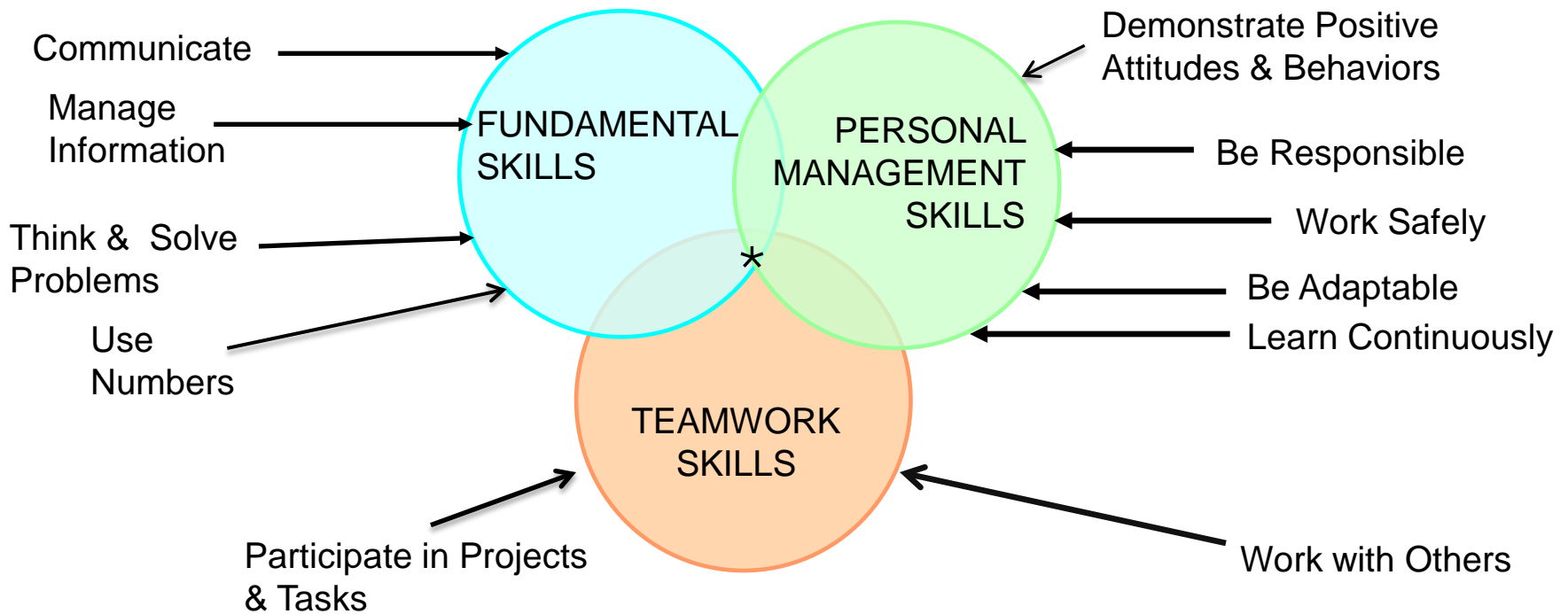




# Learning Schedules

- Each student should be scheduled with 60 – 90 minute blocks of in-school time on a daily basis
- Flexibility to accommodate the study of other complementary/optional courses (e.g., fine arts, second languages) may be limited

# What Employers Want: Employability Skills



*Conference Board of Canada, 2000+*

\* **Employers want a balance**



## Student Selection Criteria

- Average to superior academic standing
- Successful completion or concurrent enrolment in:
  - Math 10C
  - Science 10
  - ELA 10-1 or 10-2
- Attitude/behaviour, attendance, punctuality, time management, work habits
- Recommendations from the school
- Industry screening and selection.



## NAIT Tuition

- NAIT tuition of \$950 for each of Year I and Year II will be paid by the student's school or school system
- A one-time "caution" fee of \$300 per student will be levied by the school, refundable upon successful program completion





# Textbooks

- **WWO:** approximately \$250 for each of Year I and Year II

# Student Application & Selection

1. Student discuss interest/suitability with school's Program Coordinator
2. Complete the CAREERS Program Application
3. Student applications screened by the school and CAREERS
4. Participate in a successful interview with CAREERS and the Industry Sponsor
5. Upon acceptance, complete a post-secondary registration package

# CURRENT PLACEMENTS

## Grande Prairie Region

- 8 placements: Year I
- 4 High Schools: Beaverlodge, Spirit River, Charles Spencer, St. Joes
- 3 Communities: Grande Prairie, Beaverlodge, Spirit River
- 1 Employer: Aquatera

# NEW COMMUNITY INTEREST

- Airdrie
- Calgary
- Lethbridge
- Drayton Valley
- Morley
- Wabasca
- Siksika
- Kehewin
- Kainai



# Question Time



# www.nextgen.org

An Industry-driven private and public partnership dedicated to the career development of Alberta's youth. >

## Latest Tweets

CAREERS The Next Gen  
#careerexpo is wrapping  
up...Jill out! ^js

Apr 28

CAREERS The Next Gen



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