PLUMBING 12B

District Name: Mission
District Number: 75
Developed by: Tony Zadworny
School Name: Riverside Trades, Training and Career Centre
Principal's Name: Dennis Goosen, Vice-Principal Stan Weir
Board Authority Approval Date: January 18, 2005
Board Authority Signature:
Course Name: Use B.C. Plumbing Code, DWV, Potable Water Systems
Grade Level of Course: 12
Number of Course Credits: 4 credits
Number of Hours of Instruction: 120 hours

Prerequisite(s):
The student should demonstrate a basic mechanical aptitude and an understanding of the current B.C. Plumbing Code Regulations.

Special Training, Facilities or Equipment Required:

- The Instructor must be a Trade Qualified Plumber with an understanding of the equipment, material and a working knowledge of the current B.C. Plumbing Code Regulations.
- Classroom, Project and service shop, a suitable structure for piping and fixture installations, material and equipment storage space
- Television, VCR, videos, overhead projector,
- Material and Equipment required to complete practical assignments.

- **Student Required hand tools:**
  - Tape Measure
  - Coveralls
  - Steel toed Boots

Course Synopsis:
This course is designed to introduce students to some of the specialized power tools. It will also give the student the opportunity to use the Plumbing Code in a practical application. Additionally, the student will learn the principles of rural sewage and water systems.

Rationale:
This course will provide students with the knowledge and experience to be able construct DWV and potable water systems.

It will also provide them with a basic knowledge that will enable them to understand the operation of rural sewage and water systems.

Organizational Structure:

Unit	Title	Time
Unit 1	Specialized Power Tools	15 hours
Unit 2	Plumbing Fixtures and Trims	30 hours
Unit 3	Drain, Waste and Venting Systems	30 hours
Unit 4	Potable Water Systems	30 hours
Unit 5	Rural Sewage Treatment	8 hours
Unit 6	Rural Water Systems	7 hours
	Total Hours	120

Unit/Topic/Module Descriptions:

Unit 1: Specialized Power Tools

Learning Outcomes
It is expected that students will be able to:

- Identify and demonstrate the correct use, care and maintenance of specialized power tools.

Unit 2: Plumbing Fixtures and Trims

Learning Outcomes
It is expected that students will be able to:

- Identify and demonstrate common plumbing fixture and trim installation
- Identify and demonstrate servicing common plumbing fixtures and trims

Unit 3: Drain, Waste and Venting Systems

Learning Outcomes
It is expected that students will be able to:

- Identify and demonstrate Drainage, Waste and Venting systems

Unit 4: Potable Water Systems

Learning Outcomes
It is expected that students will be able to:

- Identify and demonstrate Potable Water systems.

Unit 5: Rural Sewage Treatment

Learning Outcomes
It is expected that students will be able to:

- Identify and describe Rural Sewage systems

Unit 6: Rural Water Systems

Learning Outcomes
It is expected that students will be able to:

- Identify and describe common types of Rural Water systems.

Instructional Components:

- direct instruction
- indirect instruction
- re-teaching activities
- skill demonstrations
- skills practice sessions
- group/pairs work
- practical competencies

Assessment Component:

- assignments
- unit tests
- self-tests
- projects

- observation of practical skills
- group work
- observation of employability skills

Learning Resources:

- Instructor designed material
- TRAC Piping Occupational Core, Line G, Use Piping Shop Equipment, Province of British Columbia Ministry of Post-Secondary Education, Queen's Printer, 1986.
- TRAC Plumbing Specialty, Line H, Install Standard Plumbing Fixtures, Province of British Columbia Ministry of Post-Secondary Education, Queen's Printer, 1986.
- Plumbing Competency Line I, Install and Repair Fixtures, Queen's Printer.
- Current Fixture Manufacturers Rough-in Literature
- Current British Columbia Plumbing Code Regulations, Queen's Printer