

Florida Department of Education
CURRICULUM FRAMEWORK

Program Title: Academy Of Public Works
Program Type: Job Preparatory
Occupational Area: Industrial Education
Components: One Core, One Program with Three Occupational Completion Points

	<u>Secondary</u>	<u>PSAV</u>
Program Numbers	8744000	I470304
CIP Number	0615.049903	0615.049903
Grade Level	9-12, 30, 31	30, 31
Standard Length	4 Credits	450 Hours
Certification	ANY VOC FIELD OR COVERAGE	ANY VOC FIELD OR COVERAGE
Facility Code	245	245
CSO	SkillsUSA, Inc.	SkillsUSA, Inc.
Co-op Method	Yes	Yes
Apprenticeship	Yes	Yes
Basic Skills		
Math		9
Language		9
Reading		9

I. MAJOR CONCEPTS/CONTENT: The purpose of this program is to prepare students for entry level employment as county municipal industrial employees.

Students who successfully complete the curriculum may be employed as grounds maintenance workers (SOC 37-3010).

This program focuses on broad, transferable skills and stresses understanding and demonstration of the following elements of the public works industry; planning, management, finance, technical and production skills, underlying principles of technology, labor issues, community issues and health, safety, and environmental issues.

II. PROGRAM STRUCTURE: This program is a planned sequence of instruction consisting of three credits or 450 hours of instruction.

When offered at the secondary level, the program consists of the following courses:

- 8744010 - Public Works Cadet 1
- 8744020 - Public Works Cadet 2
- 8744030 - Public Works Cadet 3
- 8744040 - Public Works Cadet 4

III. LABORATORY ACTIVITIES: Students are provided with realistic laboratory experiences during the classroom portion and the internship in the public works field.

IV. **SPECIAL NOTES:** SkillsUSA, Inc. is the appropriate Career Student Organization (CSO) for providing leadership training and for reinforcing specific career and technical skills. CSOs, when provided, shall be an integral part of the career and technical instructional program, and the activities of such organizations are defined as part of the curriculum in accordance with Rule 6A-6.065, F.A.C.

This program may be offered in PSAV courses. Vocational credit shall be awarded to the student on a transcript in accordance with Section 1001.44, F.S.

Cooperative training - OJT is appropriate for this program. Whenever cooperative training - OJT is offered, the following are required for each student: a training plan, signed by the student, teacher, and employer, which includes instructional objectives and a list of on-the-job and in-school learning experiences; a workstation that reflects equipment, skills and tasks that are relevant to the occupation which the student has chosen as a career goal. The student must receive compensation for work performed.

If this program is offered for 450 hours or more, in accordance with Rule 6A-10.040 F.A.C., the minimum basic skills grade levels required for this postsecondary adult vocational program are: Mathematics 9.0, Language 9.0, and Reading 9.0. These grade level numbers correspond to a grade equivalent score obtained on one of the state designated basic skills examinations. If a student does not meet the basic skills level required for completion of the program, remediation should be provided concurrently in Vocational Preparatory Instruction (VPI). Please reference the Rule for exemptions.

When a secondary student with a disability is enrolled in a vocational class with modifications to the curriculum framework, the particular outcomes and student performance standards that the student must master to earn credit must be specified on an individual basis. The job or jobs for which the student is being trained should be reflected in the student's desired postschool outcome statement on the Transition Individual Educational Plan (Transition IEP).

Federal and state legislation requires the provision of accommodations for students with disabilities to meet individual needs and ensure equal access. Adult students with disabilities must self-identify and request such services. Students with disabilities may need accommodations in such areas as instructional methods and materials, assignments and assessments, time demands and schedules, learning environment, assistive technology and special communication systems. Documentation of the accommodations requested and provided should be maintained in a confidential file.

SCANS Competencies: Instructional strategies for this program must include methods that require students to identify, organize, and use resources appropriately; to work with each other cooperatively and productively; to acquire and use information; to understand social, organizational, and technological systems; and to work with a variety of tools and equipment. Instructional

strategies must also incorporate the methods to improve students' personal qualities and high-order thinking skills.

- V. **INTENDED OUTCOMES:** After successfully completing appropriate course(s) for each occupational completion point of this program, the student will be able to:

OCCUPATIONAL COMPLETION POINT - DATA CODE A (150 Hours)
PUBLIC WORKS CADET 1 - SOC 37-3010

- 01.0 Identify requirements for orientation and safety.
- 02.0 Identify tools/equipment used in public works.
- 03.0 Describe basic elements in water treatment.
- 04.0 Describe basic elements in water distribution.
- 05.0 Describe basic elements in wastewater treatment.
- 06.0 Identify basic elements in wastewater collections.
- 07.0 Identify basic elements in storm water system.
- 08.0 Identify basic elements in equipment maintenance.
- 09.0 Identify basic elements in technical design and drafting.
- 10.0 Describe basic elements in solid waste disposal.
- 11.0 Identify basic elements in parks, buildings and grounds.
- 12.0 Demonstrate employability skills.
- 13.0 Operate computer, using software.

OCCUPATIONAL COMPLETION POINT - DATA CODE B (150 Hours)
PUBLIC WORKS CADET 2 - SOC 37-3010

- 14.0 Identify basic elements in utility locations.
- 15.0 Identify basic elements in equipment operations.
- 16.0 Identify basic elements in traffic operations.
- 17.0 Identify basic elements in public work requiring people skills.
- 18.0 Describe basic elements in the gas industry.
- 19.0 Prepare for commercial driving license.

OCCUPATIONAL COMPLETION POINT - DATA CODE C (150 Hours)
PUBLIC WORKS CADET 3 - SOC 37-3010

- 20.0 Demonstrate work ethics.
- 21.0 Perform designated job skills.

OCCUPATIONAL COMPLETION POINT - DATA CODE D (150 Hours)
PUBLIC WORKS CADET 4 - SOC 37-3010

Outcomes to be determined at this time.

Students must complete the entire 600-hour program. Those who finish the program at the secondary level may articulate with the postsecondary program to complete.

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Program Title: Academy Of Public Works
Postsecondary Number: I470304

OCCUPATIONAL COMPLETION POINT - DATA CODE A (150 Hours)
PUBLIC WORKS CADET 1 - SOC 37-3010

01.0 IDENTIFY RULES FOR ORIENTATION AND SAFETY--The student will be able to:

- 01.01 Comply with school policies and procedures.
- 01.02 Identify goals of the public works academy.
- 01.03 Demonstrate correct procedures for "CPR"/First Aid.
- 01.04 Describe rules for defensive driving.
- 01.05 Describe principles of "Right to Know".

02.0 IDENTIFY TOOLS AND EQUIPMENT USED IN PUBLIC WORKS--The student will be able to:

- 02.01 Describe the various tools used in public works.
- 02.02 Describe the various equipment used in public works.
- 02.03 Describe safety practices when working with tools.

03.0 DESCRIBE BASIC ELEMENTS IN WATER TREATMENT--The student will be able to:

- 03.01 Describe the importance of water treatment.
- 03.02 Identify sources of water and calculate math as required.
- 03.03 Discuss ways of disinfecting water.
- 03.04 Define "pH" Scale.
- 03.05 Identify requirements for certification.
- 03.06 Discuss job opportunities in water treatment.

04.0 DESCRIBE BASIC ELEMENTS IN WATER DISTRIBUTION--The student will be able to:

- 04.01 Identify parts of a distribution system.
- 04.02 Discuss ways of protecting the water system.
- 04.03 Discuss materials used in water distribution.
- 04.04 Identify requirements for certification.
- 04.05 Discuss job opportunities in water distribution.

05.0 DESCRIBE BASIC ELEMENTS IN WASTEWATER TREATMENT--The student will be able to:

- 05.01 List objectives of wastewater treatment.
- 05.02 Define wastewater.
- 05.03 List sources of wastewater.
- 05.04 Identify basic steps in wastewater treatment.
- 05.05 Identify requirements for certification.
- 05.06 Discuss job opportunities in wastewater treatment.

06.0 DESCRIBE BASIC ELEMENTS IN WASTEWATER COLLECTIONS--The student will be able to:

- 06.01 Define wastewater collection system.

- 06.02 Identify components of a wastewater collection system.
 - 06.03 Identify materials used in wastewater collection systems.
 - 06.04 Identify requirements for certification.
 - 06.05 Discuss job opportunities in wastewater collection.
- 07.0 DESCRIBE BASIC ELEMENTS IN STORM WATER SYSTEMS--The student will be able to:
- 07.01 Identify storm water regulations and laws.
 - 07.02 Discuss drainage pipe structures/installation.
 - 07.03 Discuss effects of storm water on the environment.
 - 07.04 Identify requirements for certification.
 - 07.05 Discuss job opportunities in storm water.
- 08.0 IDENTIFY BASIC ELEMENTS IN EQUIPMENT MAINTENANCE--The student will be able to:
- 08.01 Identify stationary equipment.
 - 08.02 Describe role of the equipment mechanic.
 - 08.03 Describe qualifications needed to work on stationary equipment.
 - 08.04 Describe career ladder for equipment mechanics.
 - 08.05 Identify mobile equipment.
 - 08.06 Describe role of mobile equipment mechanic.
 - 08.07 Describe qualifications needed to work as mobile equipment mechanic.
 - 08.08 Describe career opportunities for stationary equipment mechanic.
- 09.0 IDENTIFY BASIC ELEMENTS IN TECHNICAL DESIGN AND DRAFTING--The student will be able to:
- 09.01 Identify tools and supplies and calculate math for drafters and engineers.
 - 09.02 Calculate math problems and read a Philadelphia Rod.
 - 09.03 Demonstrate how to set up and level transit.
 - 09.04 Describe career ladder in drafting and engineering.
 - 09.05 Describe job opportunities in engineering.
 - 09.06 Identify use of contract document.
 - 09.07 Identify legal requirements for bidding.
- 10.0 DESCRIBE BASIC ELEMENTS IN SOLID WASTE DISPOSAL--The student will be able to:
- 10.01 Identify basic characteristics of solid waste treatment.
 - 10.02 Describe procedure for collecting garbage.
 - 10.03 Describe effect of solid waste on environment.
 - 10.04 Describe career ladder for solid waste disposal.
 - 10.05 Describe job opportunities in the field of solid waste.
- 11.0 IDENTIFY BASIC ELEMENTS IN PARKS, BUILDINGS AND GROUNDS--The student will be able to:
- 11.01 Define the role of a maintenance worker.
 - 11.02 Identify the requirements to work with chemicals.
 - 11.03 Identify job opportunities in parks, buildings and grounds.
 - 11.04 Recognize careers related to parks, buildings and grounds.
- 12.0 DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:

- 12.01 Locates, gathers, analyzes, and evaluates necessary information for performing an effective job search.
- 12.02 Gather, analyze and synthesize information on a specific job.
- 12.03 Select appropriate documents and produce final documents to be used for job applications.
- 12.04 Complete a job application.
- 12.05 Uses appropriate listening, viewing, and speaking strategies effectively in demonstrating competencies in job interview techniques.
- 12.06 Select and use appropriate listening, viewing, and speaking strategies for effectively communicating with and responding to an employer supervisor.
- 12.07 Identify and demonstrate communication, personal health, evaluation, and decision-making strategies necessary for acceptable work habits.
- 12.08 Apply an understanding of communication and language impact on workplace situations and on making job changes.

13.0 OPERATE COMPUTER USING SOFTWARE--The student will be able to:

- 13.01 Utilize a CAI package for microcomputer operations.
- 13.02 Ready microcomputers and diskettes for processing.
- 13.03 Load and utilize an application package.

OCCUPATIONAL COMPLETION POINT - DATA CODE B (150 Hours)
PUBLIC WORKS CADET 2 - SOC 37-3010

14.0 IDENTIFY BASIC ELEMENTS IN UTILITY LOCATIONS--The student will be able to:

- 14.01 Define utilities.
- 14.02 Identify common utilities.
- 14.03 Discuss private utilities.
- 14.04 Identify surface features.
- 14.05 Discuss job opportunities in utility locations.

15.0 IDENTIFY BASIC ELEMENTS IN EQUIPMENT OPERATIONS--The student will be able to:

- 15.01 Identify heavy equipment used in public works.
- 15.02 Explain safety practices used in equipment operations.
- 15.03 Describe career ladder for equipment operations.
- 15.04 Describe career opportunities as an equipment operator.

16.0 IDENTIFY BASIC ELEMENTS OPPORTUNITIES IN TRAFFIC OPERATIONS--The student will be able to:

- 16.01 Explain the importance of traffic operations.
- 16.02 Explain how to minimize liability and litigation.
- 16.03 Explain career ladder in traffic control.
- 16.04 Describe the utilization of barricades in the work zone.
- 16.05 Explain the requirements for certification as a traffic control operator.
- 16.06 Describe the importance of signs and marketing on streets.
- 16.07 Describe the importance of street construction.

17.0 IDENTIFY BASIC ELEMENTS IN PUBLIC WORKS REQUIRING PEOPLE SKILLS--The student will be able to:

- 17.01 Identify skills needed for listening.
 - 17.02 Describe the importance of good attitude.
 - 17.03 Discuss instruments used for evaluation.
 - 17.04 Describe methods of non-verbal communication.
 - 17.05 Describe methods of verbal communication.
 - 17.06 Discuss basic human needs.
 - 17.07 Discuss role of good work ethics.
 - 17.08 Discuss principles of human relations.
 - 17.09 Discuss principles of customer relations.
- 18.0 DESCRIBE BASIC ELEMENTS IN THE GAS INDUSTRY--The student will be able to:
- 18.01 Discuss history of gas.
 - 18.02 Identify tools and equipment used in gas industry.
 - 18.03 Discuss safety procedures when using gas and calculate pipe size for gas lines.
 - 18.04 Identify requirements for license and certification.
 - 18.05 Identify career opportunities in the gas industry.
- 19.0 PREPARE FOR COMMERCIAL DRIVING LICENSE--The student will be able to:
- 19.01 Identify steps for basic vehicle (26,000-lb. truck) inspection.
 - 19.02 Explain the rules for road emergencies.
 - 19.03 Discuss guidelines for night driving.
 - 19.04 Discuss guidelines for controlling speed.
 - 19.05 Identify safety measures for controlling vehicles.
 - 19.06 Discuss air brakes.
 - 19.07 Describe procedures for parallel parking, measured right turn, and backing up.
 - 19.08 Demonstrate pre-trip inspection.
 - 19.09 Discuss road trip.
 - 19.10 Describe procedures for acquiring license. Practical driving experience for the postsecondary students only.

OCCUPATIONAL COMPLETION POINT - DATA CODE C (150 Hours)
PUBLIC WORKS CADET 3 - SOC 37-3010

- 20.0 DEMONSTRATE WORK ETHICS--The student will be able to:
- 20.01 Demonstrate ethical practices.
 - 20.02 Follow written and oral directions.
 - 20.03 Interact professionally with employer and employees.
 - 20.04 Demonstrate ethical and professional behavior with customers and clients.
 - 20.05 Identifies and uses positive attitude strategies in classroom, family, community, and workplace.
 - 20.06 Identify the meaning of loyalty to school, family, community, and workplace.
- 21.0 PERFORM DESIGNATED JOB SKILLS--The student will be able to:
- 21.01 Apply safety procedures on the job.
 - 21.02 Follow written and oral directions.
 - 21.03 Display an acceptable level of productivity and quality control.
 - 21.04 Demonstrate appropriate dress and personal hygiene.

- 21.05 Demonstrate reacting to constructive criticism in a positive manner.
- 21.06 Communicate effectively with employer and co-workers.
- 21.07 Demonstrate initiative.
- 21.08 Demonstrate decision making and problem-solving skills.
- 21.09 Demonstrate punctuality and reliability by working as scheduled.
- 21.10 Demonstrate interest and enthusiasm for the job and for the training station.

OCCUPATIONAL COMPLETION POINT - DATA CODE D (150 Hours)
PUBLIC WORKS CADET 4 - SOC 37-3010

Outcomes under development.

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Title: Public Works Cadet 1
Course Number: 8744010
Course Credit: 1

COURSE DESCRIPTION: This is the first course in a planned sequence of instruction. There are 150 hours in this course. This course provides students with competencies in requirements for orientation and safety, employability skills, the operation of computers using software, and the ability to identify basic elements in handling water/waste water, equipment maintenance, technical design and drafting. A further requirement is to identify basic elements in parks, buildings and grounds.

OCCUPATIONAL COMPLETION POINT - DATA CODE A
PUBLIC WORKS CADET 1 - SOC 37-3010

01.0 IDENTIFY RULES FOR ORIENTATION AND SAFETY--The student will be able to:

- 01.01 Comply with school policies and procedures. LA.A.1.4
- 01.02 Identify goals of the public works academy. LA.A.1.4, LA.A.2.4
- 01.03 Demonstrate correct procedures for "CPR"/First Aid. LA.B.2.4, LA.A.2.4, LA.C.1.4, LA.C.2.4, LA.C.3.4, HE.A.1.4
- 01.04 Describe rules for defensive driving. LA.B.2.4
- 01.05 Describe principles of "Right to Know". LA.B.2.4

02.0 IDENTIFY TOOLS AND EQUIPMENT USED IN PUBLIC WORKS--The student will be able to:

- 02.01 Describe the various tools used in public works. LA.A.1.4, LA.C.2.4
- 02.02 Describe the various equipment used in public works. LA.A.1.4, LA.A.2.4, LA.B.2.4
- 02.03 Describe safety practices when working with tools. LA.A.1.4, LA.C.3.4

03.0 DESCRIBE BASIC ELEMENTS IN WATER TREATMENT--The student will be able to:

- 03.01 Describe the importance of water treatment. LA.A.1.4, LA.C.1.4, LA.A.2.4, LA.B.2.4, LA.C.3.4, AT.8.1.4, LA.B.2.4, SC.H.3.4
- 03.02 Identify sources of water and calculate math as required. AT.7.1.4, LA.A.1.4, LA.A.2.4, LA.B.1.4, LA.B.2.4, MA.A.1.4, MA.D.1.4, SC.D.1.4, SC.G.2.4, SS.D.2.4
- 03.03 Discuss ways of disinfecting water. LA.A.1.4, LA.C.1.4, LA.C.2.4, LA.C.3.4, MA.A.3.4, MA.B.4.4, MA.E.1.4, SC.F.1.4
- 03.04 Define "pH" Scale. LA.A.1.4, LA.C.2.4, MA.A.3.4, MA.B.4.4, MA.E.1.4, SC.F.1.4
- 03.05 Identify requirements for certification. AT.8.1.4, LA.A.1.4, SS.B.2.4, AT.8.1.4, LA.B.1.4, LA.B.2.4
- 03.06 Discuss job opportunities in water treatment. AT.4.4.1.4, LA.A.1.4, LA.C.1.4, AT.2.1.4, AT.6.1.4, AT.7.1.4, LA.C.3.4, SS.D.2.4

04.0 DESCRIBE BASIC ELEMENTS IN WATER DISTRIBUTION--The student will be able to:

- 04.01 Identify parts of a distribution system. LA.C.2.4, LA.B.2.4, AT.4.4.1.4, AT.5.2.4, AT.8.1.4, SC.H.3.4
- 04.02 Discuss ways of protecting the water system. LA.C.1.4, LA.C.2.4, LA.C.3.4, AT.4.1.4, AT.5.2.4, AT.8.1.4, SC.H.3.4, MA.B.4.4, MA.D.2.4
- 04.03 Discuss materials used in water distribution. LA.C.1.4, LA.C.3.4, LA.A.2.4, LA.B.2.4, MA.D.2.4, MA.A.5.4, SS.C.2.4
- 04.04 Identify requirements for certification. LA.C.1.4, LA.C.2.4, LA.B.2.4, MA.B.4.4, MA.A.5.4, SS.C.2.4
- 04.05 Discuss job opportunities in water distribution. AT.4.1.4, LA.C.1.4, LA.A.2.4, AT.2.1.4, AT.6.1.4, AT.7.1.4, LA.C.3.4, SS.D.2.4

05.0 DESCRIBE BASIC ELEMENTS IN WASTEWATER TREATMENT--The student will be able to:

- 05.01 List objectives of waste water treatment. AT.4.1.4, AT.8.1.4, LA.A.1.4, SC.G.2.4, SC.F.1.4
- 05.02 Define wastewater. AT.4.1.4, AT.8.1.4, LA.A.1.4, LA.B.2.4
- 05.03 List sources of wastewater. AT.7.1.4, LA.A.2.4, LA.B.2.4, MA.A.1.4, MA.D.1.4, SC.D.1.4, SC.G.2.4, SS.B.1.4
- 05.04 Identify basic steps in wastewater treatment. AT.4.1.4, AT.8.1.4, SC.G.2.4, MA.B.4.4, MA.A.5.4, MA.B.2.4, LA.A.2.4, LA.B.2.4, LA.C.3.4
- 05.05 Identify requirements for certification. AT.8.1.4, LA.A.1.4, SS.B.2.4, LA.C.3.4, LA.B.2.4, LA.B.1.4
- 05.06 Discuss job opportunities in wastewater treatment. AT.4.1.4, LA.A.1.4, LA.C.3.4, LA.B.2.4, LA.B.1.4

06.0 DESCRIBE BASIC ELEMENTS IN WASTEWATER COLLECTIONS--The student will be able to:

- 06.01 Define wastewater collection system. LA.A.2.4, LA.B.2.4
- 06.02 Identify components of a wastewater collection system. LA.A.2.4, AT.4.1.4, SC.G.2.4, SC.H.2.4, AT.4.1.4, LA.B.2.4
- 06.03 Identify materials used in wastewater collection systems. LA.A.2.4, LA.B.2.4, MA.D.2.4, MA.A.5.4
- 06.04 Identify requirements for certification. AT.8.1.4, LA.A.2.4, SS.B.2.4, LA.B.2.4
- 06.05 Discuss job opportunities in wastewater collection. AT.4.1.4, LA.A.1.4, LA.B.1.4, AT.6.1.4, LA.C.3.4

07.0 DESCRIBE BASIC ELEMENTS IN STORM WATER SYSTEMS--The student will be able to:

- 07.01 Identify storm water regulations and laws. AT.8.1.4, SC.6.2.4, SS.C.1.4, LA.B.2.4, LA.A.2.4
- 07.02 Discuss drainage pipe structures/installation. AT.4.1.4, AT.8.1.4, SC.D.1.4, SC.6.2.4, MA.A.1.4, MA.B.2.4, MA.B.3.4, SS.B.1.4, LA.A.2.4, LA.C.1.4, LA.C.3.4
- 07.03 Discuss effects of storm water on the environment. SC.G.2.4, SC.H.3.4, LA.A.2.4, LA.C.1.4, LA.C.3.4
- 07.04 Identify requirements for certification. AT.4.1.4, SS.B.2.4, LA.B.2.4, LA.A.2.4
- 07.05 Discuss job opportunities in storm water. LA.C.1.4, AT.4.1.4, LA.C.2.4, LA.C.3.4

08.0 IDENTIFY BASIC ELEMENTS IN EQUIPMENT MAINTENANCE--The student will be able to:

- 08.01 Identify stationary equipment. LA.A.1.4
- 08.02 Describe role of the equipment mechanic. LA.A.1.4, LA.C.1.4, LA.B.2.4, LA.C.3.4
- 08.03 Describe qualifications needed to work on stationary equipment. LA.A.1.4, LA.C.1.4, LA.B.2.4, LA.C.3.4
- 08.04 Describe career ladder for equipment mechanics. LA.A.1.4, LA.C.1.4, LA.B.2.4, LA.C.3.4, AT.4.1.4
- 08.05 Identify mobile equipment. LA.A.1.4, LA.A.2.4, LA.B.2.4, MA.B.2.4, MA.B.3.4
- 08.06 Describe role of mobile equipment mechanics. LA.A.1.4, LA.A.2.4, LA.B.2.4
- 08.07 Describe qualifications needed to work as mobile equipment mechanic. LA.A.1.4, LA.A.2.4, LA.B.1.4, LA.B.2.4
- 08.08 Describe career opportunities for stationary equipment mechanic. LA.A.1.4, LA.A.2.4, LA.B.2.4, LA.B.1.4

09.0 IDENTIFY BASIC ELEMENTS IN TECHNICAL DESIGN AND DRAFTING--The student will be able to:

- 09.01 Identify tools and calculate math for drafters and engineers. LA.A.1.4, LA.C.1.4, LA.C.2.4, LA.B.2.4, MA.A.3.4, MA.B.4.4
- 09.02 Calculate math problems and read a Philadelphia Rod. LA.C.1.4, LA.C.2.4, LA.C.3.4, MA.A.1.4, MA.B.2.4
- 09.03 Demonstrate how to set up and level transit. LA.C.1.4, LA.C.2.4, LA.C.3.4, SS.B.1.4
- 09.04 Describe career ladder in drafting and engineering. LA.A.1.4, LA.C.3.4, AT.4.1.4, LA.B.2.4, SS.B.1.4.
- 09.05 Describe job opportunities in engineering. AT.4.4.1.4, LA.C.3.4, AT.2.1.4, AT.6.1.4, AT.7.1.4, LA.B.2.4
- 09.06 Identify use of contract document. LA.B.2.4, AT.4.4.1.4, LA.A.2.4, MA.B.1.4, MA.B.3.4, AT.G.1.4, AT.7.1.4, SS.D.2.4
- 09.07 Identify legal requirements for bidding. LA.A.2.4, SS.C.1.4, LA.B.2.4

10.0 DESCRIBE BASIC ELEMENTS IN SOLID WASTE DISPOSAL--The student will be able to:

- 10.01 Identify basic characteristics of solid waste treatment. HE.A.1.4, LA.A.1.4, LA.A.2.4
- 10.02 Describe procedure for collecting garbage. LA.C.3.4, LA.A.2.4
- 10.03 Describe effects of solid waste on environment. SC.D.2.4, SC.G.2.4, LA.A.2.4, LA.C.3.4
- 10.04 Describe career ladder for solid waste disposal. LA.A.1.4, LA.A.2.4, LA.C.3.4, AT.4.1.4
- 10.05 Describe job opportunities in the field of solid waste. AT.4.4.1.4, LA.A.1.4, LA.C.1.4, AT.2.1.4, AT.G.1.4, AT.7.1.4, LA.C.3.4

11.0 IDENTIFY BASIC ELEMENTS IN PARKS, BUILDINGS AND GROUNDS--The student will be able to:

- 11.01 Define the role of a maintenance worker. LA.A.2.4, LA.B.2.4
- 11.02 Identify the requirements to work with chemicals. LA.A.2.4, LA.B.2.4

- 11.03 Identify job opportunities in parks, buildings and grounds.
AT.4.4.1.4, LA.A.2.4, AT.2.1.4, AT.6.1.4, AT.7.1.4,
LA.B.2.4, SS.A.2.4
- 11.04 Recognize careers related to parks, buildings and grounds.
LA.A.1.4, AT.4.1.4, LA.B.2.4, SS.D.2.4
- 12.0 DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:
 - 12.01 Locates, gathers, analyzes, and evaluates necessary information for performing an effective job search.
LA.A.2.4
 - 12.02 Gather, analyze and synthesize information on a specific job. LA.A.2.4
 - 12.03 Select appropriate documents and produce final documents to be used for job applications. LA.B.2.4, LA.B.1.4
 - 12.04 Complete a job application.
 - 12.05 Uses appropriate listening, viewing, and speaking strategies effectively in demonstrating competencies in job interview techniques. LA.C.1.4, LA.C.2.4, LA.C.3.4
 - 12.06 Select and use appropriate listening, viewing, and speaking strategies for effectively communicating with and responding to an employer supervisor. LA.C.1.4, LA.C.2.4, LA.C.3.4
 - 12.07 Identify and demonstrate communication, personal health, evaluation, and decision-making strategies necessary for acceptable work habits. LA.B.2.4, LA.A.2.4, LA.B.1.4, LA.C.3.4, HE.B.3.4
 - 12.08 Apply an understanding of communication and language impact on workplace situations and on making job changes. LA.D.2.4
- 13.0 OPERATE COMPUTER USING SOFTWARE--The student will be able to:
 - 13.01 Utilize a CAI package for microcomputer operations.
LA.A.2.4, LA.B.2.4
 - 13.02 Ready microcomputers and diskettes for processing.
LA.A.2.4, LA.B.2.4
 - 13.03 Load and utilize an application package. LA.B.2.4, LA.A.2.4

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Title: Public Works Cadet 2
Course Number: 8744020
Course Credit: 1

COURSE DESCRIPTION: This is the second course in a planned sequence of instruction. There are 150 hours in this course. This course provides students with competencies in preparation for a commercial driving license, basic elements in public work requiring people skills and in the gas industry. It further provides basic elements in utility locations, equipment operations, and traffic operations.

OCCUPATIONAL COMPLETION POINT - DATA CODE B

PUBLIC WORKS CADET 2 - SOC 37-3010

14.0 IDENTIFY BASIC ELEMENTS IN UTILITY LOCATIONS--The student will be able to:

- 14.01 Define utilities. LA.A.2.4, LA.B.2.4
- 14.02 Identify common utilities. LA.A.2.4, LA.B.2.4
- 14.03 Discuss private utilities. LA.C.1.4, LA.C.3.4
- 14.04 Identify surface features. LA.A.1.4, MA.A.1.4, MA.A.2.4, LA.A.2.4, SS.B.1.4, SC.D.1.4
- 14.05 Discuss job opportunities in utility locations. AT.4.1.4, LA.A.1.4, LA.C.1.4, SS.D.2.4, AT.2.1.4, AT.6.1.4, AT.7.1.4, LA.C.3.4

15.0 IDENTIFY BASIC ELEMENTS IN EQUIPMENT OPERATIONS--The student will be able to:

- 15.01 Identify heavy equipment used in public works. LA.C.3.4, LA.A.1.4, LA.B.2.4, LA.B.1.4, MA.B.2.4, MA.B.3.4, AT.1.1.4
- 15.02 Explain safety practices used in equipment operations. LA.C.3.4, AT.8.1.4, HE.A.1.4, HE.A.2.4, HE.B.1.4
- 15.03 Describe career ladder for equipment operations. LA.A.2.4, LA.A.1.4, LA.B.2.4, LA.C.3.4, AT.4.1.4
- 15.04 Describe career opportunities as an equipment operator. LA.A.2.4, LA.A.1.4, LA.B.2.4, LA.C.3.4

16.0 IDENTIFY BASIC ELEMENTS OPPORTUNITIES IN TRAFFIC OPERATIONS--The student will be able to:

- 16.01 Explain the importance of traffic operations. LA.A.2.4, LA.C.3.4, LA.B.2.4, SS.C.1.4
- 16.02 Explain how to minimize liability and litigation. LA.A.2.4, LA.C.3.4, MA.A.1.4, MA.A.5.4, LA.C.3.4, SS.C.1.4
- 16.03 Explain career ladder in traffic control. LA.C.1.4, LA.C.2.4, LA.C.3.4, AT.4.1.4, LA.D.2.4
- 16.04 Describe and calculate distance for barricades in the work zone. LA.A.1.4, LA.C.1.4, MA.B.3.4, LA.A.2.4, LA.B.2.4, SS.D.2.4
- 16.05 Explain the requirements for certification as a traffic control operator. AT.4.4.1.4, LA.A.1.4, LA.A.2.4, LA.C.1.4, AT.2.1.4, AT.6.1.4, AT.7.1.4, LA.C.3.4

- 16.06 Describe the importance of signs and marketing on streets and calculating the height of signs. LA.A.1.4, LA.A.2.4, LA.C.1.4, LA.C.3.4, MA.B.4.4
- 16.07 Describe the importance of street construction. LA.A.2.4, LA.C.3.4, MA.B.1.4, SS.C.1.4
- 17.0 IDENTIFY BASIC ELEMENTS IN PUBLIC WORKS REQUIRING PEOPLE SKILLS--
The student will be able to:
- 17.01 Identify skills needed for listening. LA.C.1.4, LA.A.1.4, LA.A.2.4, LA.B.1.4, LA.B.2.4
- 17.02 Describe the importance of good attitude. LA.C.3.4, LA.C.1.4, LA.C.2.4
- 17.03 Discuss instruments used for evaluation. LA.C.3.4, LA.A.2.4
- 11.05 Describe methods of non-verbal communication. HE.B.3.4, LA.C.3.4
- 11.06 Describe methods of verbal communication. HE.B.3.4, LA.C.3.4
- 17.06 Discuss basic human needs. LA.C.3.4, LA.C.1.4, HE.C.1.4
- 17.07 Discuss role of good work ethics. SS.B.2.4, SS.D.2.4, LA.A.2.4
- 17.08 Discuss principles of human relations. LA.C.3.4, HE.B.3.4
- 17.09 Discuss principles of customer relations. SS.B.2.4, LA.C.3.4, HE.B.3.4, LA.C.1.4, LA.C.2.4, LA.C.3.4
- 18.0 DESCRIBE BASIC ELEMENTS IN THE GAS INDUSTRY--The student will be able to:
- 18.01 Discuss history of gas. LA.A.2.4, LA.B.2.4, LA.C.1.4, LA.C.3.4
- 18.02 Identify tools and equipment used in gas industry. LA.A.2.4, LA.C.1.4, LA.C.3.4, SC.H.3.4
- 18.03 Discuss safety procedures when using gas and calculate pipe size for gas lines. AT.8.1.4, HE.A.1.4, HE.A.2.4, HE.B.1.4, LA.A.2.4, SC.A.1.4, SC.G.2.4, MA.A.3.4, LA.C.3.4
- 18.04 Identify requirements for license and certification. LA.A.2.4, LA.C.3.4, SS.B.2.4, SS.D.2.4
- 18.05 Identify career opportunities in the gas industry. AT.4.4.1.4, LA.A.2.4, LA.B.2.4, AT.2.1.4, AT.6.1.4, AT.7.1.4, LA.C.3.4, SS.D.2.4
- 19.0 PREPARE FOR COMMERCIAL DRIVING LICENSE--The student will be able to:
- 19.01 Identify steps for basic vehicle (26,000-lb. truck) inspection. LA.C.3.4, LA.A.2.4
- 19.02 Explain the rules for road emergencies. LA.D.2.4, LA.C.3.4
- 19.03 Discuss guidelines for night driving. LA.C.1.4, LA.C.2.4, LA.C.3.4, LA.A.2.4
- 19.04 Discuss guidelines for controlling speed. LA.A.2.4, LA.C.1.4, LA.C.3.4, SC.A.1.4
- 19.05 Identify safety measures for controlling vehicles. LA.A.2.4, LA.C.3.4
- 19.06 Discuss air brakes. LA.A.2.4, LA.C.1.4, LA.C.3.4, SC.C.1.4, SC.C.2.4
- 19.07 Describe procedures for parallel parking, measured right turn, and backing up. LA.C.1.4, LA.C.3.4, LA.A.2.4
- 19.08 Demonstrate pre-trip inspection. LA.C.1.4, LA.C.2.4, LA.C.3.4
- 19.09 Discuss road trip. LA.C.1.4, LA.C.2.4, LA.C.3.4

19.10 Describe procedures for acquiring license. Practical driving experience for the postsecondary students only.
AT.8.1.4, SS.D.2.4, LA.C.3.4

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Title: Public Works Cadet 3
Course Number: 8744030
Course Credit: 1

COURSE DESCRIPTION: This is the third and final course in a planned sequence of instruction. There are 150 hours in this course. This course provides students with competencies in demonstration of work ethics and how to perform designated job skills.

OCCUPATIONAL COMPLETION POINT - DATA CODE C
PUBLIC WORKS CADET 3 - SOC 37-3010

20.0 DEMONSTRATE WORK ETHICS--The student will be able to:

- 20.01 Demonstrate ethical practices. LA.A.1.4, LA.A.2.4, LA.B.2.4, LA.C.3.4
- 20.02 Follow written and oral directions. LA.C.1.4, LA.C.3.4
- 20.03 Interact professionally with employer and employees. LA.C.3.4, LA.C.1.4, HE.B.3.4
- 20.04 Demonstrate ethical and professional behavior with customers and clients. LA.C.1.4, LA.C.3.4
- 20.05 Identifies and uses positive attitude strategies in classroom, family, community, and workplace. LA.C.1.4, LA.A.2.4
- 20.06 Identify the meaning of loyalty to school, family, community, and workplace. LA.A.2.4, LA.B.2.4

21.0 PERFORM DESIGNATED JOB SKILLS--The student will be able to:

- 21.01 Apply safety procedures on the job. LA.A.1.4, LA.B.2.4, HE.A.1.4, HE.A.2.4, LA.A.2.4, AT.8.1.4, HE.B.1.4
- 21.02 Follow written and oral directions. LA.B.2.4, LA.C.3.4
- 21.03 Display an acceptable level of productivity and quality control. LA.A.1.4, LA.C.1.4, AT.6.1.4
- 21.04 Demonstrate appropriate dress and personal hygiene. AT.8.1.4, HC.A.2.4, HE.A.1.4, HE.B.1.4, HE.C.1.4
- 21.05 Demonstrate reacting to constructive criticism in a positive manner. HE.B.3.4
- 21.06 Communicate effectively with employer and coworkers. LA.C.3.4, HE.B.3.4
- 21.07 Demonstrate initiative. HE.B.B.3.4, LA.B.2.4
- 21.08 Demonstrate decision making and problem-solving skills. HE.B.3.4, HE.C.1.4, LA.C.3.4
- 21.09 Demonstrate punctually and reliability by working as scheduled. AT.6.1.4
- 21.10 Demonstrate interest and enthusiasm for the job and for the training station. HE.B.3.4, HE.A.1.4, LA.C.1.4, LA.C.3.4

July 2007

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Title: Public Works Cadet 4
Course Number: 8744040
Course Credit: 1

COURSE DESCRIPTION: Course under development.

OCCUPATIONAL COMPLETION POINT - DATA CODE D
PUBLIC WORKS CADET 3 - SOC 37-3010