

WTE 60 Supervision (3)

3 hours lecture

Note: Cross listed as PWM/WWT 60

Supervisory aspects of public agencies including organization, decision making, coordination, communication, and public relations. Personnel supervision including coaching, training, evaluation, discipline, team building, morale, and grievances. Safety programs and encouraging safe conditions, actions and attitudes.

WTE 62 Cross Connection Specialist (3)

3 hours lecture

Recommended preparation: WTE/WWT 58**Note:** Cross listed as WWT 62

The study of the various levels of administrative and technical procedures necessary to operate a cross connection control program. Students will obtain the knowledge to become certified as a "Cross Connection Control Specialist" under the provisions set forth by the American Water Works Association.

WTE 64 Water Quality Monitoring (3)

2½ hours lecture - 1½ hours laboratory

Recommended preparation: WTE /WWT 50

Prepares students to properly monitor public drinking water quality through study of: Federal and State regulations, laboratory analyses, types of contaminants, sample collection techniques and interpretation of monitoring data.

WTE 66 Motors and Pumps, Operation and Maintenance (3)

3 hours lecture

Recommended preparation: WTE/WWT 50**Note:** Cross listed as WWT 66

Identification of problems encountered, causes of problems, corrective solutions, and repairs in the operation of pumps and motors. Implementation of maintenance programs including scheduling and recordkeeping.

WTE 72 Waterworks Distribution II (3)

3 hours lecture

Prerequisite: A minimum grade of 'C' in WTE 52

Intermediate and advanced instruction in the field of water distribution, types of reservoirs, water lines, pumps, valves, and related appurtenances. Studies design, proper operation, and facilities repair of a public water system. Provides instruction in methods of record keeping and administrative responsibilities related to water systems. This course prepares students for the California Department of Health Services, Water Distribution Operator certification exams at levels D-3, D-4, and D-5 and the "American Water Works Association" certification exams for Grades II, III, and IV.

WTE 74 Water Treatment Plant Operation II (3)

3 hours lecture

Prerequisite: A minimum grade of 'C' in WTE 54

Advanced water quality control and treatment with emphasis given to state regulations, EPA regulations, advanced mathematics and chemistry. Particular attention will be given to in depth examination of treatment plant processes and the enforcement of the Surface Water Treatment Rule, Total Coliform Rule, Interim Enhanced Surface Water Treatment Rule, Long Term 1 Enhanced Surface Water Treatment Rule, Long Term 2 Enhanced Surface Water Treatment Rule, and Disinfection/Disinfection by Product Rule. This course will be helpful to those preparing for Grade III and IV examinations.

WTE 97 Water Technology Education Topics (.5 - 4)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

Topics in Water Technology Education. See Class Schedule for specific topic offered. Course title will designate subject covered.

Web

See CSIT - Web Technology

Welding (WELD)

Contact the Trade and Industry Department for further information.
(760) 744-1150, ext. 2545
Office: T-102A

Associate in Science Degrees -

AS Degree requirements are listed in Section 6 (green pages).

- Welding Technology

Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages).

- Welding Technology

Certificates of Proficiency -

Certificate of Proficiency requirements are listed in Section 6 (green pages).

- Entry-Level Gas Metal Arc/Flux Cored Arc Welding
- Entry-Level Gas Tungsten Arc Welding
- Entry-Level Shielded Metal Arc Welding

PROGRAMS OF STUDY**Entry-Level Gas Metal Arc/
Flux Cored Arc Welding**

Provides the skills necessary for entry-level employment as a gas metal arc welder/flux cored arc welder.

CERTIFICATE OF PROFICIENCY

Program Requirements	Units
IT/WELD 108 Technical Mathematics	3
WELD 100 Welding I	3
WELD 120 Gas Metal Arc and Flux Cored Arc Welding	3
WELD 135 Print Reading for Welders	3
WELD 160 Metal Layout for Fabrication	3

TOTAL UNITS 15**Entry-Level Gas Tungsten Arc Welding**

Introduction to GTAW, GMAW, and SMAW welding process with concentration on GTAW. Basic math, print reading, and layout skills and knowledge will be taught to prepare students for entry-level employment as a GTAW welder.

CERTIFICATE OF PROFICIENCY

Program Requirements	Units
IT/WELD 108 Technical Mathematics	3
WELD 100 Welding I	3
WELD 115 Gas Tungsten Arc Welding	3
WELD 135 Print Reading for Welders	3
WELD 160 Metal Layout for Fabrication	3

TOTAL UNITS 15**Entry-Level Shielded Metal Arc Welding**

Provides the skills necessary for entry-level employment as a shielded metal arc welder.

CERTIFICATE OF PROFICIENCY

Program Requirements	Units
IT/WELD 108 Technical Mathematics	3
WELD 100 Welding I	3
WELD 110 Shielded Metal Arc Welding	3
WELD 135 Print Reading for Welders	3
WELD 160 Metal Layout for Fabrication	3

TOTAL UNITS 15