APPRENTICESHIP TRAINING PROGRAMS
APPRENTICESHIP TRAINING PROGRAMS

APPRENTICESHIP FIELDS OF STUDY
Control Operator
Electrician
Generation Mechanic
Hydro Operator
Instrument Technician
Meter Technician
Power Lineman
Relays Technician
SCADA/Telecommunications Technician
Substation-Electrician
Telecommunications Technician

DEGREES, CERTIFICATES AND AWARDS
Associate in Science Degree (A.S.)
• Electrician
• Generation Mechanic
• Meter Technician
• Power Lineman
• Relays Technician
• SCADA/Telecommunications Technician
• Substation-Electrician

Certificate of Achievement
• Control Operator
• Electrician
• Generation Mechanic
• Hydro Operator
• Instrument Technician
• Meter Technician
• Power Lineman
• Relays Technician
• SCADA/Telecommunications Technician
• Substation-Electrician
• Telecommunications Technician

DESCRIPTION
Apprenticeship training programs provide the participant an opportunity for formal training consisting of a balance between on-the-job training (OJT) and technical related and supplemented instruction (RSI) directly associated with the particular trade or industry. The OJT is coordinated through the Imperial Irrigation District (IID) and the RSI is provided by Imperial Valley College.

To be eligible to participate in any of the apprenticeship training programs, an individual must be an employee of the Imperial Irrigation District (IID). Applicants for these apprenticeship programs are directed to the IID office located at: 333 E. Barioni Blvd, Imperial, California 92251, telephone (760) 482-9640.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices. Majors and certificates are available for most of the Apprenticeship programs identified on this page.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. While completion of the ELTT courses does not require nor assure employment with the IID, it does place an individual in a better position to seek employment.

CAREER OPPORTUNITIES
Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

APPRENTICESHIP COURSE CLASSROOMS AT IMPERIAL IRRIGATION DISTRICT (IID) LOCATIONS

IID – ECTR – El Centro Executive Training Center
IID – ECCL – El Centro Computer Lab
1284 Main St., El Centro, CA 92243

IID – ECBB – El Centro Bell Building
2151 W. Adams Ave., El Centro, CA 92243

IID – ECGS – Generation Station
IID – SP – Steam Plant
485 W. Villa Rd., El Centro, CA 92243

IID – ELSH – Electric Shop
IID – MS – Meter Shop
IID – MTR – Mechanical Training Room
IID – PD – Power Dock
IID - TLSH – Telecommunications Shop
IID – WC – Water Control
333 E Barioni Blvd. Imperial, CA 92251

IID – HYDROS
3675 E. Hwy. 98, Holtville, CA 92250

IID-LQ
81600 Avenue 58, La Quinta, CA 92253
APPRENTICESHIP – CONTROL OPERATOR

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION
The Control Operator Apprenticeship Program will prepare students to operate and control distributed control system and heat recovery steam generator, steam turbines, generators, and associated mechanical and electrical equipment in the production of electrical energy.

Apprenticeship training programs provide the participant an opportunity for formal training consisting of a balance between on-the-job training (OJT) and technical related and supplemented instruction (RSI) directly associated with the particular trade or industry. The OJT is coordinated through the Imperial Irrigation District (IID) and the RSI is provided by Imperial Valley College.

To be eligible to participate in any of the apprenticeship training programs, an individual must be an employee of the Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. While completion of the ELTT courses does not require nor assure employment with the IID, it does place an individual in a better position to seek employment.

PROGRAM LEARNING OUTCOMES
1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

CERTIFICATE OF ACHIEVEMENT PROGRAM
The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate; (2) achieve a “C” average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

TRANSFER PREPARATION
Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor’s degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:
- www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine
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- http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID
Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: www.imperial.edu/students/financial-aid-and-scholarships/

CAREER OPPORTUNITIES
Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: http://www.imperial.edu/courses-and-programs/programs-of-study/
## CERTIFICATE PROGRAM

**APPRENTICESHIP – CONTROL OPERATOR CERTIFICATE**

Thirty-two (32.0) units required for the certificate.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

**ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.**

### I. Required courses for the certificate (32.0 units).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELTT 101</td>
<td>Electrical Trades I</td>
<td>4.0</td>
</tr>
<tr>
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<td>Electrical Trades II</td>
<td>4.0</td>
</tr>
<tr>
<td>ELTT 103</td>
<td>Electrical Trades III</td>
<td>4.0</td>
</tr>
<tr>
<td>ELTT 104</td>
<td>Electrical Trades IV</td>
<td>4.0</td>
</tr>
<tr>
<td>APPL 105</td>
<td>Power Plant Operator V</td>
<td>4.0</td>
</tr>
<tr>
<td>APPL 106</td>
<td>Power Plant Operator VI</td>
<td>4.0</td>
</tr>
<tr>
<td>APPL 107</td>
<td>Power Plant Operator VII</td>
<td>4.0</td>
</tr>
<tr>
<td>APPL 108</td>
<td>Power Plant Operator VIII</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**Total Certificate Units** 32.0
APPRENTICESHIP – ELECTRICIAN

DEGREES, CERTIFICATES AND AWARDS
Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION
The Electrician Apprenticeship Program will prepare students to perform a variety of skilled electrical work associated with the construction, installation, maintenance, and repair of high and low voltage electrical systems found in substations, control buildings, and underground facilities.

Apprenticeship training programs provide the participant an opportunity for formal training consisting of a balance between on-the-job training (OJT) and technical related and supplemented instruction (RSI) directly associated with the particular trade or industry. The OJT is coordinated through the Imperial Irrigation District (IID) and the RSI is provided by Imperial Valley College.

To be eligible to participate in any of the apprenticeship training programs, an individual must be an employee of the Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. While completion of the ELTT courses does not require nor assure employment with the IID, it does place an individual in a better position to seek employment.

PROGRAM LEARNING OUTCOMES
1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS
The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a “C” average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES
Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: http://www.imperial.edu/courses-and-programs/programs-of-study/

TRANSFER PREPARATION
Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor’s degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

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ASSOCIATE DEGREE PROGRAM

APPRENTICESHIP – ELECTRICIAN – A.S. DEGREE
Thirty-two (32.0) units required for the major.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

ALL COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.

I. Required courses for the major (32.0 units).

<table>
<thead>
<tr>
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<tbody>
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</tr>
<tr>
<td>ELTT 103</td>
<td>Electrical Trades III</td>
<td>4.0</td>
</tr>
<tr>
<td>ELTT 104</td>
<td>Electrical Trades IV</td>
<td>4.0</td>
</tr>
<tr>
<td>APEL 105</td>
<td>Electrician V</td>
<td>4.0</td>
</tr>
<tr>
<td>APEL 106</td>
<td>Electrician VI</td>
<td>4.0</td>
</tr>
<tr>
<td>OR APLN 106</td>
<td>Power Lineman VI (4.0)</td>
<td>4.0</td>
</tr>
<tr>
<td>APEL 107</td>
<td>Electrician VII</td>
<td>4.0</td>
</tr>
<tr>
<td>APEL 108</td>
<td>Electrician VIII</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Total Major Units: 32.0

CERTIFICATE PROGRAM

APPRENTICESHIP – ELECTRICIAN CERTIFICATE
Thirty-two (32.0) units required for the certificate.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.

I. Required courses for the certificate (32.0 units).

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
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<tr>
<td>APEL 108</td>
<td>Electrician VIII</td>
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</tr>
</tbody>
</table>

Total Certificate Units: 32.0
APPRENTICESHIP – GENERATION MECHANIC

DEGREES, CERTIFICATES AND AWARDS
Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION
The Generation Mechanic Apprenticeship Program will prepare students to inspect, test, adjust, and repair mechanical power generation equipment.

Apprenticeship training programs provide the participant an opportunity for formal training consisting of a balance between on-the-job training (OJT) and technical related and supplemented instruction (RSI) directly associated with the particular trade or industry. The OJT is coordinated through the Imperial Irrigation District (IID) and the RSI is provided by Imperial Valley College.

To be eligible to participate in any of the apprenticeship training programs, an individual must be an employee of the Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to ID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. While completion of the ELTT courses does not require nor assure employment with the IID, it does place an individual in a better position to seek employment.

PROGRAM LEARNING OUTCOMES
1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS
The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate’s degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate; (2) achieve a “C” average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES
Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: http://www.imperial.edu/courses-and-programs/programs-of-study/

TRANSFER PREPARATION
Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor’s degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:
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APPRENTICESHIP – GENERATION MECHANIC

ASSOCIATE DEGREE PROGRAM

APPRENTICESHIP – GENERATION MECHANIC – A.S. DEGREE
Thirty-two (32.0) units required for the major.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

ALL COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.

I. Required courses for the major.

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<td>ELTT 103</td>
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<tr>
<td>ELTT 104</td>
<td>Electrical Trades IV</td>
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</tr>
<tr>
<td>APGN 105</td>
<td>Generation Mechanic V</td>
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<tr>
<td>APGN 106</td>
<td>Generation Mechanic VI</td>
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</tr>
<tr>
<td>APGN 107</td>
<td>Generation Mechanic VII</td>
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</tr>
<tr>
<td>APGN 108</td>
<td>Generation Mechanic VIII</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Total Major Units 32.0

CERTIFICATE PROGRAM

APPRENTICESHIP – GENERATION MECHANIC CERTIFICATE
Thirty-two (32.0) units required for the certificate.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.

I. Required courses for the certificate (32.0 units).

<table>
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</tbody>
</table>

Total Certificate Units 32.0
APPRENTICESHIP – HYDRO OPERATOR

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION
The Hydro Operator Apprenticeship Program will prepare students to control operations of electrical and mechanical equipment (including hydraulic machinery) at one or more hydroelectric generating plants.

Apprenticeship training programs provide the participant an opportunity for formal training consisting of a balance between on-the-job training (OJT) and technical related and supplemented instruction (RSI) directly associated with the particular trade or industry. The OJT is coordinated through the Imperial Irrigation District (IID) and the RSI is provided by Imperial Valley College.

To be eligible to participate in any of the apprenticeship training programs, an individual must be an employee of the Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices. The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. While completion of the ELTT courses does not require nor assure employment with the IID, it does place an individual in a better position to seek employment.

PROGRAM LEARNING OUTCOMES
1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

CERTIFICATE OF ACHIEVEMENT PROGRAM
The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate; (2) achieve a “C” average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

TRANSFER PREPARATION
Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor’s degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

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CAREER OPPORTUNITIES
Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: http://www.imperial.edu/courses-and-programs/programs-of-study/
APPRENTICESHIP – HYDRO OPERATOR

CERTIFICATE PROGRAM

APPRENTICESHIP – HYDRO OPERATOR CERTIFICATE
Thirty-two (32.0) units required for the certificate.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.

I. Required courses for the certificate (32.0 units).

<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>ELTT 104</td>
<td>Electrical Trades IV</td>
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<tr>
<td>APHY 105</td>
<td>Hydro Operator V</td>
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<tr>
<td>APHY 106</td>
<td>Hydro Operator VI</td>
<td>4.0</td>
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<tr>
<td>APHY 107</td>
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<td>4.0</td>
</tr>
<tr>
<td>APHY 108</td>
<td>Hydro Operator VIII</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Total Certificate Units 32.0
APPRENTICESHIP – INSTRUMENT TECHNICIAN

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION
The Instrument Technician Apprenticeship Program will prepare students to inspect, adjust, and repair electrically and pneumatically operated instruments used to indicate and control operating conditions of turbines, furnaces, boilers, and auxiliaries in power-generating plants.

Apprenticeship training programs provide the participant an opportunity for formal training consisting of a balance between on-the-job training (OJT) and technical related and supplemented instruction (RSI) directly associated with the particular trade or industry. The OJT is coordinated through the Imperial Irrigation District (IID) and the RSI is provided by Imperial Valley College.

To be eligible to participate in any of the apprenticeship training programs, an individual must be an employee of the Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. While completion of the ELTT courses does not require nor assure employment with the IID, it does place an individual in a better position to seek employment.

PROGRAM LEARNING OUTCOMES
1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

CERTIFICATE OF ACHIEVEMENT PROGRAM
The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate; (2) achieve a “C” average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

TRANSFER PREPARATION
Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor’s degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:
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FINANCIAL AID
Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: www.imperial.edu/students/financial-aid-and-scholarships/

CAREER OPPORTUNITIES
Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: http://www.imperial.edu/courses-and-programs/programs-of-study/
## CERTIFICATE PROGRAM

**APPRENTICESHIP – INSTRUMENT TECHNICIAN CERTIFICATE**

Thirty-two (32.0) units required for the certificate. Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.

### I. Required courses for the certificate (32.0 units).

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</tr>
<tr>
<td>APIN 105</td>
<td>Instrument Technician V</td>
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<td>Instrument Technician VI</td>
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<td>Instrument Technician VII</td>
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</tr>
<tr>
<td>APIN 108</td>
<td>Instrument Technician VIII</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**Total Certificate Units**

32.0
APPRENTICESHIP – METER TECHNICIAN

DEGREES, CERTIFICATES AND AWARDS
Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION
The Meter Technician Apprenticeship Program will prepare students to inspect, test, calibrate, maintain, and repair KWH meters and associated equipment in the shop or in the field, determine when KWH meters are obsolete or beyond repair, and maintain records on all KWH meters.

Apprenticeship training programs provide the participant an opportunity for formal training consisting of a balance between on-the-job training (OJT) and technical related and supplemented instruction (RSI) directly associated with the particular trade or industry. The OJT is coordinated through the Imperial Irrigation District (IID) and the RSI is provided by Imperial Valley College.

To be eligible to participate in any of the apprenticeship training programs, an individual must be an employee of the Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. While completion of the ELTT courses does not require nor assure employment with the IID, it does place an individual in a better position to seek employment.

PROGRAM LEARNING OUTCOMES
1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS
The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate’s degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate; (2) achieve a “C” average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

TRANSFER PREPARATION
Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor’s degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

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CAREER OPPORTUNITIES
Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: http://www.imperial.edu/courses-and-programs/programs-of-study/
## ASSOCIATE DEGREE PROGRAM

### APPRENTICESHIP – METER TECHNICIAN – A.S. DEGREE

Thirty-two (32.0) units required for the major.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

ALL COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.

I. Required courses for the major (32.0 units).

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<td>APMT 105</td>
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<tr>
<td>APMT 106</td>
<td>Meter Technician VI</td>
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<td>APMT 107</td>
<td>Meter Technician VII</td>
<td>4.0</td>
</tr>
<tr>
<td>APMT 108</td>
<td>Meter Technician VIII</td>
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</tr>
</tbody>
</table>

Total Major Units 32.0

## CERTIFICATE PROGRAM

### APPRENTICESHIP – METER TECHNICIAN CERTIFICATE

Thirty-two (32.0) units required for the certificate.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.

I. Required courses for the certificate (32.0 units).

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</tr>
</tbody>
</table>

Total Certificate Units 32.0
DEGREES, CERTIFICATES AND AWARDS

Certificate of Achievement
Associate in Science Degree (A.S.)

APPRENTICESHIP – POWER LINEMAN

DESCRIPTION

The Power Lineman Apprenticeship Program will prepare students to perform a variety of skilled line and power work connected with the construction and maintenance of overhead and underground electrical transmission, distribution lines, and perform work on energized circuits ranging from low to high voltage lines.

Apprenticeship training programs provide the participant an opportunity for formal training consisting of a balance between on-the-job training (OJT) and technical related and supplemented instruction (RSI) directly associated with the particular trade or industry. The OJT is coordinated through the Imperial Irrigation District (IID) and the RSI is provided by Imperial Valley College.

To be eligible to participate in any of the apprenticeship training programs, an individual must be an employee of the Imperial Irrigation District (IID). Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. While completion of the ELTT courses does not require nor assure employment with the IID, it does place an individual in a better position to seek employment.

PROGRAM LEARNING OUTCOMES

1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate’s degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate; (2) achieve a “C” average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: http://www.imperial.edu/courses-and-programs/programs-of-study/

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor’s degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

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www.imperial.edu/students/financial-aid-and-scholarships/
**ASSOCIATE DEGREE PROGRAM**

**APPRENTICESHIP – POWER LINEMAN – A.S. DEGREE**

Thirty-two (32.0) units required for the major.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

**ALL COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.**

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<tr>
<td>APLN 108 Power Lineman VIII</td>
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</table>

**Total Major Units** 32.0

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**CERTIFICATE PROGRAM**

**APPRENTICESHIP – POWER LINEMAN CERTIFICATE**

Thirty-two (32.0) units required for the certificate.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

**ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.**

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</table>

**Total Certificate Units** 32.0
DEGREES, CERTIFICATES AND AWARDS

Certificate of Achievement

ASSOCIATE IN SCIENCE DEGREE (A.S.)

DESCRIPTION

The Relays Technician Apprenticeship Program will prepare students to install, maintain, test, and repair the Imperial Irrigation District's substation protective relays, AC and DC control systems, microprocessor relaying communications, and associated high voltage substation equipment.

Apprenticeship training programs provide the participant an opportunity for formal training consisting of a balance between on-the-job training (OJT) and technical related and supplemented instruction (RSI) directly associated with the particular trade or industry. The OJT is coordinated through the Imperial Irrigation District (IID) and the RSI is provided by Imperial Valley College.

To be eligible to participate in any of the apprenticeship training programs, an individual must be an employee of the Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. While completion of the ELTT courses does not require nor assure employment with the IID, it does place an individual in a better position to seek employment.

PROGRAM LEARNING OUTCOMES

1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate; (2) achieve a “C” average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

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ASSOCIATE DEGREE PROGRAM

APPRENTICESHIP – RELAYS TECHNICIAN – A.S. DEGREE
Thirty-two (32.0) units required for the major.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

ALL COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.

I. Required courses for the major (32.0 units).

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</tr>
<tr>
<td>ELTT 103</td>
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<tr>
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</tr>
<tr>
<td>APRL 105</td>
<td>Relays Technician V</td>
<td>4.0</td>
</tr>
<tr>
<td>APRL 106</td>
<td>Relays Technician VI</td>
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<tr>
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<td></td>
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</tr>
<tr>
<td>APLN 106</td>
<td>Power Lineman VI (4.0)</td>
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</tr>
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</tr>
<tr>
<td>APRL 108</td>
<td>Relays Technician VIII</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Total Major Units 32.0

CERTIFICATE PROGRAM

APPRENTICESHIP – RELAYS TECHNICIAN CERTIFICATE
Thirty-two (32.0) units required for the certificate.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.

I. Required courses for the certificate (32.0 units).

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Total Certificate Units 32.0
APPRENTICESHIP – SCADA/TELECOMMUNICATIONS TECHNICIAN

DEGREES, CERTIFICATES AND AWARDS
Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION
The Telecommunications Technician Apprenticeship Program will prepare students to install, configure, test, maintain, troubleshoot, and repair microwave radio and fiber-optic networks for substation communications, two-way radio, telephone, video surveillance systems, and associated equipment.

Apprenticeship training programs provide the participant an opportunity for formal training consisting of a balance between on-the-job training (OJT) and technical related and supplemented instruction (RSI) directly associated with the particular trade or industry. The OJT is coordinated through the Imperial Irrigation District (IID) and the RSI is provided by Imperial Valley College.

To be eligible to participate in any of the apprenticeship training programs, an individual must be an employee of the Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. While completion of the ELTT courses does not require nor assure employment with the IID, it does place an individual in a better position to seek employment.

PROGRAM OUTCOMES
1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS
The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a “C” average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES
Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: http://www.imperial.edu/courses-and-programs/programs-of-study/

TRANSFER PREPARATION
Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:
www.ASSIST.org – CSU and UC Articulation Agreements and Majors Search Engine
www.CSUMentor.edu – CSU System Information
www.universityofcalifornia.edu/admissions/index.html - UC System Information
www.aicc.edu – California Independent Colleges and Universities, Association of Undergraduate Exchange Programs

FINANCIAL AID
Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: www.imperial.edu/students/financial-aid-and-scholarships/
APPRENTICESHIP – SCADA/TELECOMMUNICATIONS TECHNICIAN

ASSOCIATE DEGREE PROGRAM

APPRENTICESHIP – SCADA/TELECOMMUNICATIONS TECHNICIAN – A.S. DEGREE

Thirty-two (32.0) units required for the major.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

ALL COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.

I. Required courses for the major (32.0 units).

<table>
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<tr>
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</tr>
<tr>
<td>APSC 105</td>
<td>SCADA/Telecommunications Technician V</td>
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<td>APSC 107</td>
<td>SCADA/Telecommunications Technician VII</td>
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</tr>
<tr>
<td>APSC 108</td>
<td>SCADA/Telecommunications Technician VIII</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Total Major Units 32.0

CERTIFICATE PROGRAM

APPRENTICESHIP – SCADA/TELECOMMUNICATIONS CERTIFICATE

Thirty-two (32.0) units required for the certificate.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.

I. Required courses for the certificate (32.0 units).

<table>
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<th>Course</th>
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<tbody>
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</tr>
</tbody>
</table>

Total Certificate Units 32.0
DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.)
Certificate of Achievement

DESCRIPTION

The Substation-Electrician Apprenticeship Program will prepare students to perform a variety of skilled electrical work associated with the construction, installation, maintenance, and repair of high and low voltage electrical systems found in substations, control buildings, and underground facilities.

Apprenticeship training programs provide the participant an opportunity for formal training consisting of a balance between on-the-job training (OJT) and technical related and supplemented instruction (RSI) directly associated with the particular trade or industry. The OJT is coordinated through the Imperial Irrigation District (IID) and the RSI is provided by Imperial Valley College.

To be eligible to participate in any of the apprenticeship training programs, an individual must be an employee of the Imperial Irrigation District (IID).

Apprentices must complete the eight courses that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

The ELTT (101-104) courses are open to apprentices and non-apprentices. See the Electrical Trades major and certificate listing in the IVC General Catalog. While completion of the ELTT courses does not require nor assure employment with the IID, it does place an individual in a better position to seek employment.

PROGRAM LEARNING OUTCOMES

1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculums applications.

2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.

3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a “C” average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

CAREER OPPORTUNITIES

Upon completion of the apprenticeship program(s), students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree students may further their career as licensed contractors.

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: http://www.imperial.edu/courses-and-programs/programs-of-study/
## ASSOCIATE DEGREE PROGRAM

### APPRENTICESHIP – SUBSTATION ELECTRICIAN – A.S. DEGREE

Thirty-two (32.0) units required for the major.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

*ALL COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.*

I. **Required courses for the major (32.0 units).**

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</tr>
<tr>
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<td>Electrical Trades IV</td>
<td>4.0</td>
</tr>
<tr>
<td>APSB 105</td>
<td>Substation-Electrician V</td>
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</tr>
<tr>
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</tr>
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<td></td>
</tr>
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<td>APSB 107</td>
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</tr>
<tr>
<td>APSB 108</td>
<td>Substation-Electrician VIII</td>
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</tr>
</tbody>
</table>

**Total Major Units**: 32.0

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## CERTIFICATE PROGRAM

### APPRENTICESHIP – SUBSTATION ELECTRICIAN CERTIFICATE

Thirty-two (32.0) units required for the certificate.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

*ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.*

I. **Required courses for the certificate (32.0 units).**

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**Total Certificate Units**: 32.0
APPRENTICESHIP – TELECOMMUNICATIONS TECHNICIAN

DEGREES, CERTIFICATES AND AWARDS
Certificate of Achievement

DESCRIPTION
The Telecommunications Technician Apprenticeship Program will prepare students to install, configure, test, maintain, troubleshoot, and repair microwave radio and fiber-optic networks for substation communications, two-way radio, telephone, video surveillance systems, and associated equipment.

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PROGRAM LEARNING OUTCOMES
1. Students will receive positive apprentice evaluations on coursework, safety practices, and curriculum applications.
2. Students will be prepared to take the senior apprentice certification at the completion of one half of the program (ELTT 101-104) and the completion of 4,000 of the on-the-job training hours.
3. Students will be prepared through the completion of classroom instruction and 8,000 of the on-the-job training hours to successfully pass the State of California journeyman examination and receive the journeyman certification.

CERTIFICATE OF ACHIEVEMENT PROGRAM
The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate; (2) achieve a “C” average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

TRANSFER PREPARATION
Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor’s degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

Transfer Resources:
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www.CSUMentor.edu – CSU System Information
www.universityofcalifornia.edu/admissions/index.html – UC System Information
www.aiccu.edu – California Independent Colleges and Universities, Association of http://wiche.edu/wue - Western Undergraduate Exchange Programs

FINANCIAL AID
Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information:

www.imperial.edu/students/financial-aid-and-scholarships/
CERTIFICATE PROGRAM

APPRENTICESHIP – TELECOMMUNICATIONS TECHNICIAN CERTIFICATE
Thirty-two (32.0) units required for the certificate.

Apprentices must complete the eight courses listed below that correspond to the apprenticeship program they are in. The AP** 105-108 courses are open only to IID apprentices.

ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF “C” OR BETTER.

I. Required courses for the certificate (32.0 units).

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Total Certificate Units 32.0
APPRENTICESHIP - COURSES OF INSTRUCTION

APPRENTICESHIP-CONTROL OPERATOR

APPL 105 (4.0 UNITS)
Power Plant Operator V
Term Hours: 72 Lec, 0 Lab
Letter Grade only
Prerequisite: ELTT 104 - Electrical Trades IV.
Instruction operating and controlling distributed control system and heat recovery steam generator, steam turbines, generators, boilers and associated mechanical and electrical equipment in the production of electrical energy. (Nontransferable, nondegree applicable)

APPL 106 (4 Units)
Power Plant Operator VI
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APPL 105 - Power Plant Operator V.
Comprehensive review of combined cycle power generation, gas turbine benefits, heat recovery generator, cycle parameters and their impact on plant performance, fuels for combined cycle plants, steam turbine generators, and turbine auxiliary equipment. (Nontransferable, nondegree applicable)

APPL 107 (4 Units)
Power Plant Operator VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APPL 106 - Power Plant Operator VI.
Introduction to combined cycle principles, steam turbine generator, turbine control, generator operations, major components, heat recovery steam generator, flow paths and critical inspection. (Nontransferable, nondegree applicable)

APPL 108 (4 Units)
Power Plant Operator VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APPL 107 - Power Plant Operator VII.
Advanced principles of combine cycle, steam turbine generator, turbine control, generator operations, major components, heat recovery steam generator, flow paths and critical inspection. (Nontransferable, nondegree applicable)

APPRENTICESHIP-ELECTRICIAN

APEL 105 (4 Units)
Electrician V
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: ELTT 104 - Electrical Trades IV.
Instruction in print reading, removal and maintenance (i.e., transmission structures, transmission line installation, climbing steel poles and towers, working on de-energized lines, rigging for high voltage work, hot transmission line repair) and implementation of applied calculations. (Nontransferable, AA/AS degree only)

APEL 106 (4 Units)
Electrician VI
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APEL 105 - Electrician V.
Comprehensive review in AC theory and advanced training in control equipment, (i.e., capacitors, reactors, and circuit breakers), review of high voltage terminations, relays and transformers. Implementation and review of safety regulations applicable to switchyards, substations and confined spaces. (Nontransferable, AA/AS degree only)

APEL 107 (4 Units)
Electrician VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APEL 106 - Electrician VI.
Instruction in Right-of-Ways/Easements, Flash outs and Electrical Burns. Training in a broad scope of areas usual to the power utility industry (i.e., meters, cable fault location, etc.). Review of various safety issues appropriate to the power utility industry. (Nontransferable, AA/AS degree only)

APEL 108 (4 Units)
Electrician VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APEL 107 - Electrician VII.
Comprehensive review of practical electrical wiring including residential and commercial wiring systems. Review of construction safety and the use of test equipment, small electrical devices and transformers. Advanced apprentice training in resistance and wire size and Title VIII Underground and overhead work. Preparation for the National Electrical Code Journey Exam. (Nontransferable, AA/AS degree only)

APPRENTICESHIP-GENERATION MECHANIC

APGN 105 (4 Units)
Generation Mechanic V
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: ELTT 104 - Electrical Trades IV.
Comprehensive review in AC theory, application and generation line systems augmented with an introduction of hydro electric power, generation, dispatching, hydro power operations and related construction standards. (Nontransferable, AA/AS degree only)

APGN 106 (4 Units)
Generation Mechanic VI
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APGN 105 - Generation Mechanic V.
Advanced review in AC theory, application and generation line systems augmented with an introduction of hydro electric power, generation, dispatching, hydro power operations and related construction standards. (Nontransferable, AA/AS degree only)
APGN 107  (4 Units)
Generation Mechanic VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisites: APGN 106 - Generation Mechanic VI.
Advanced theory in the use of rules and regulations, specialized equipment, repair and maintenance of hydro-generators, safety practices, local and state requirements, and control systems. (Nontransferable, AA/AS degree only)

APGN 108  (4 Units)
Generation Mechanic VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APGN 107 - Generation Mechanic VII.
Comprehensive review in AC theory and advanced training in distribution line maintenance (i.e., transmission structures, transmission line installation, climbing steel poles and towers, working on de-energized lines, rigging for high voltage work, hot transmission line repair, using temporary structures, and usage of gloves and hot sticks). Preparation for the National Electrical Code Journey Exam. (Nontransferable, nondegree applicable)

APHY 105  (4 Units)
Hydro Operator V
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: ELTT 104 - Electrical Trades IV.
Instruction in inspecting, adjusting and repairing electrically and pneumatically operated instruments used to indicate and control operating conditions of turbines, furnaces, boilers and auxiliaries, in steam, gas, and hydro generating plants. (Nontransferable, nondegree applicable)

APHY 106  (4 Units)
Hydro Operator VI
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APHY 105 - Hydro Operator V.
Advanced review in AC theory, application and generation line systems augmented with an introduction of hydro electric power, generation, dispatching, hydro power operations and related construction standards. (Nontransferable, nondegree applicable)

APHY 107  (4 Units)
Hydro Operator VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APHY 106 - Hydro Operator VI
Advanced theory in the use of rules and regulations, specialized equipment, repair and maintenance of hydro-generators, safety practices, local and state requirements, and control systems. (Nontransferable, nondegree applicable)

APHY 108  (4 Units)
Hydro Operator VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APHY 107 - Hydro Operator VII.
Comprehensive review in AC theory and advanced training in distribution line maintenance (i.e., transmission structures, transmission line installation, climbing steel poles and towers, working on de-energized lines, rigging for high voltage work, hot transmission line repair, using temporary structures, and usage of gloves and hot sticks). Preparation for the National Electrical Code Journey Exam. (Nontransferable, nondegree applicable)

APPRENTICESHIP-HYDRO OPERATOR

APPRENTICESHIP-INSTRUMENT TECHNICIAN

APIN 105  (4 Units)
Instrument Technician V
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: ELTT 104 - Electrical Trades IV.
Instruction in inspecting, adjusting and repairing electrically and pneumatically operated instruments used to indicate and control operating conditions of turbines, furnaces, boilers and auxiliaries, in steam, gas, and hydro generating plants. (Nontransferable, nondegree applicable)

APIN 106  (4 Units)
Instrument Technician VI
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APIN 105 - Instrument Technician V.
An introduction to instrument transformers and substation metering devices. Continued study in principles and application of capacitors, reactors, circuit breakers, and relays. Introduction to the basic principles in the operation of power transformers. (Nontransferable, nondegree applicable)

APIN 107  (4 Units)
Instrument Technician VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APIN 106 - Instrument Technician VI
Instruction in inspecting, adjusting and repairing electrically and pneumatically operated instruments used to indicate and control operating conditions of turbines, furnaces, boilers and auxiliaries, in steam, gas, and hydro generating plants. (Nontransferable, nondegree applicable)

APIN 108  (4 Units)
Instrument Technician VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APIN 107 - Instrument Technician VII.
Advanced instruction in inspecting, adjusting and repairing electrically and pneumatically operated instruments used to indicate and control operating conditions of turbines, furnaces, boilers and auxiliaries, in steam, gas, and hydro generating plants. (Nontransferable, nondegree applicable)
APPRENTICESHIP-METER TECHNICIAN

APMT 105  (4 Units)
Meter Technician V
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: ELTT 104 - Electrical Trades IV.
Comprehensive review in AC theory and basic wiring for meter installa-
tions, working on de-energized lines, rigging for high voltage work, trou-
bleshooting and testing for meter failures.  (Nontransferable, AA/AS
degree only)

APMT 106  (4 Units)
Meter Technician VI
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APMT 105 - Meter Technician V.
The basic principles in the construction, operation, maintenance proce-
dures and print reading associated with substations and switchyards.  (Nontrans-
ferable, AA/AS degree only)

APMT 107  (4 Units)
Meter Technician VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APMT 106 - Meter Technician VI.
Theory and practicum in the procedures for completing commercial and res-
idential connections, extensive overview of watt hour installations, and the advanced review of electrical test equipment.  (Nontransferable, AA/AS degree only)

APMT 108  (4 Units)
Meter Technician VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APMT 107 - Meter Technician VII.
Advanced theory in the use of specialized test equipment, repair and main-
tenance of motors, generators and pumps, safety practices, local and state requirements, and electrical mathematics.  (Nontransferable, AA/AS degree only)

APPRENTICESHIP-POWER LINEMAN

APLN 105  (4 Units)
Power Lineman V
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: ELTT 104 - Electrical Trades IV.
Comprehensive review in AC theory and advanced training in distribu-
tion line maintenance (i.e., transmission structures, transmission line in-
stallation, climbing steel poles and towers, working on de-energized lines, rigging for high voltage work, hot transmission line repair, using temporary structures, and usage of gloves and hot sticks).  (Nontrans-
ferable, AA/AS degree only)

APLN 106  (4 Units)
Power Lineman VI
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APLN 105 - Power Lineman V.
The basic principles in the construction, operation, and maintenance
procedures associated with substations and switchyards.  (Nontrans-
ferable, AA/AS degree only)

APLN 107  (4 Units)
Power Lineman VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APLN 106 - Power Lineman VI.
Theory and practicum in the procedures for completing commercial and residential connections, extensive overview of watt hour installations, and the installation and maintenance of series and multiple circuit street lighting systems.  (Nontransferable, AA/AS degree only)

APLN 108  (4 Units)
Power Lineman VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APLN 107 - Power Lineman VII.
Advanced theory in the use of "hot sticks," specialized equipment, repair and maintenance of poles and lines (energized and de-energized), safety practices, local and state requirements, and lineman mathemat-
ics.  (Nontransferable, AA/AS degree only)

APPRENTICESHIP-RELAYS TECHNICIAN

APRL 105  (4 Units)
Relays Technician V
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: ELTT 104 - Electrical Trades IV.
Comprehensive review in AC substation safety and AC theory with an in-
troduction to troubleshooting in the field.  An introduction to working on de-energized substation equipment and lines.  (Nontransferable, AA/AS degree only)

APRL 106  (4 Units)
Relays Technician VI
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APRL 105 - Relays Technician V.
An introduction to instrument transformers and substation metering devices.  Continued study in principles and application of capacitors, reactors, circuit breakers, and relays.  Introduction to the basic princi-
pies in the operation of power transformers.  (Nontransferable, AA/AS degree only)
APRL 107 (4 Units)
Relays Technician VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APRL 106 - Relays Technician VI
Overview of switching orders, flushouts and electrical burns. Theory and practicum in the procedures for completing, testing, and troubleshooting commercial and residential connections. Review of advanced electrical systems. (Nontransferable, AA/AS degree only)

APRL 108 (4 Units)
Relays Technician VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APRL 107 - Relays Technician VII.
Advanced review in types of relays for generators, transmission applications, transformers and substation buss protection; and review of IIDD communication systems. Comprehensive study in the principles of disaster recovery and use of emergency generators. (Nontransferable, AA/AS degree only)

APSC 105 (4 Units)
SCADA/Telecommunications Technician V
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: ELTT 104 - Electrical Trades IV.
Instruction in distribution line installation, maintenance, repair, and removal. Training in the use of hot sticks and gloves. An overview of pole top transformer, transmission and distribution line replacement, and working on de-energized transmission lines. Advanced review of high voltage AC systems and advanced mathematical review. (Nontransferable, AA/AS degree only)

APSC 106 (4 Units)
SCADA/Telecommunications Technician VI
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APSC 105 - SCADA/Telecommunications Technician V.
Comprehensive review in AC theory and advanced training in substation construction and maintenance, transmission line installation, working on de-energized lines, rigging for high voltage work, appropriate use of control equipment. (Nontransferable, AA/AS degree only)

APSC 107 (4 Units)
SCADA/Telecommunications Technician VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APSC 106 - SCADA/Telecommunications Technician VI.
Introduction to Service Connections and Watthour Meters (i.e., service installation, electric meters, and cable fault location). An overview of the use and maintenance of compressors and pneumatic tools. Safety training in T & D maintenance, transmission line safety and flushouts/electrical burns. An introduction to fiber optic connections. (Nontransferable, AA/AS degree only)

APSC 108 (4 Units)
SCADA/Telecommunications Technician VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APSC 107 - SCADA/Telecommunications Technician VII.
Comprehensive review of industry standards relative to constructing microwave and telecommunication systems. Review of construction safety and the use of test equipment, small electrical devices and transformers. Advanced apprentice training in resistance and wire size and Title VIII Underground and overhead work. (Nontransferable, AA/AS degree only)

APPS 105 (4 Units)
Substation - Electrician V
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: ELTT 104 - Electrical Trades IV.
Comprehensive review in AC theory and advanced training in distribution line installation, maintenance, repair, and removal. Training in the use of hot sticks and gloves. An overview of pole top transformer, transmission and distribution line replacement, and working on de-energized transmission lines. Advanced review of high voltage AC systems and advanced mathematical review. (Nontransferable, AA/AS degree only)

APPS 106 (4 Units)
Substation-Electrician VI
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APSB 105 - Substation-Electrician V.
Comprehensive review in AC theory and advanced training in substation construction and maintenance, transmission line installation, working on de-energized lines, rigging for high voltage work, appropriate use of control equipment. (Nontransferable, AA/AS degree only)

APPS 107 (4 Units)
Substation-Electrician VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APSB 106 - Substation-Electrician VI or APLN 106 Power Lineman VI.
Theory and practicum in the procedures for recognizing easements and right-of-ways, extensive overview of watt hour installations, installation and maintenance of circuit breakers and review of basic business protocols. (Nontransferable, AA/AS degree only)

APPS 108 (4 Units)
Substation-Electrician VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APSB 107 - Substation-Electrician VII.
Advanced theory in the use of specialized equipment, repair and maintenance of circuit breakers and regulators, safety practices, review of local and state construction requirements. (Nontransferable, AA/AS degree only)
APPRENTICESHIP-TELECOMMUNICATIONS
TECHNICIAN

APTL 105  (4 Units)
Telecommunications Technician V
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: ELTT 104 - Electrical Trades IV.
Instruction in installation, configuration, testing, maintaining, troubleshooting and repairing the District’s SCADA, data-communication, revenue meter, and associated power plant systems.
(Nontransferable, nondegree applicable)

APTL 106  (4 Units)
Telecommunications Technician VI
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APTL 105 - Telecommunications Technician V.
Instruction in installation, configuration, testing, maintaining, troubleshooting and repairing the District’s SCADA, data-communication, revenue meter, and associated power plant systems.
(Nontransferable, nondegree applicable)

APTL 107  (4 Units)
Telecommunications Technician VII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APTL 106 - Telecommunications Technician VI.
Instruction in advanced installation, configuration, testing, maintaining, troubleshooting and repairing the District’s SCADA, data-communication, revenue meter, and associated power plant systems.
(Nontransferable, nondegree applicable)

APTL 108  (4 Units)
Telecommunications Technician VIII
Term Hours: 72 Lec, 0 Lab
Letter Grade Only
Prerequisite: APTL 107 - Telecommunications Technician VII.
Instruction in advanced installation, configuration, testing, maintaining, troubleshooting and repairing the District’s SCADA, data-communication, revenue meter, and associated power plant systems.
(Nontransferable, nondegree applicable)