



Apprenticeship Information

We offer three different programs. Each program is independent from each other.

- | | |
|--------------------------|---|
| • Inside Wireman | 4-year program (8,000 on-the-job hours) |
| • Low Voltage Technician | 3-year program (4,800 on-the-job hours) |
| • Residential Wireman | 2-year program (4,000 on-the-job hours) |
-

Minimum Qualifications needed for an application:

- Must be 18 years or older
- Must be a high school graduate from a school accredited by a State Education Agency; or have a GED; or have completed a High School Equivalency; or have completed an Associate degree or higher from a school accredited by a State Education Agency.
- Willing to work in Pierce, Thurston, Lewis, Mason, Pacific, or Grays Harbor counties.
- Have valid driver's license.
- If you have served in the military, you must submit a copy of your DD214.
- Must have access to Internet with a working computer/laptop or tablet.
- Completed one full year of high school Algebra with a C or better, or one quarter of college Algebra with a passing grade. Or provide documentation of completing the ETA Tech Math course with a minimum score of 75%. Web site for this class is:

<https://www.skillsprep.org>

❖ Residential only requires one full year of General Math.

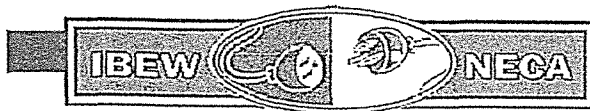
If interested in our program and you meet the qualifications listed above your first step would be to make application. Once you have completed the application and provided "official transcript(s)" you will be scheduled for our aptitude test. Official transcript means that the transcript is in a sealed envelope from the school(s). If you receive a qualifying score on the Aptitude Test, you will be eligible for an interview with our Committee. Please note not everyone who applies will be placed into our program.

A waiver of the \$50.00 application fee is available to applicants who can show proof that they are receiving public assistance from the State of Washington OR can provide a DD214 showing that you have been Honorably discharged within the last 5 years.

More information is available online, by e-mail, or just stopping by at:

Southwest Washington Electrical JATC
3001 South 36th Street, Suite A
Tacoma, Washington 98409
Phone: (253) 475-2922 Fax: (253) 474-7945
www.swjatc.org

- All our full-time instructors have not only completed our program, but worked in the field, ran jobs, and completed an additional four years of instructor training at the University of Tennessee.
- We have been training union electricians since 1941.
- We have multiple hands on labs to assist with your training. Labs included but not limited to:
 - Motor Controls
 - Building Automation
 - Conduit Bending
 - Computer Labs
 - Craft Booths
 - Solar Panels
- Not only are you being paid while on the job. You are also receiving medical and retirement benefits.
- Instructors are always around to help; before/after class, before/after work, phone, and e-mail. Our goal is to help you succeed not fail.
- We are a full referral union, which means we find the work for you. You don't have to go looking for work.
- Our Committee is made up of 6 members from labor (employees) and 6 members from management (employers).
- **ALL** our instructors take classes to stay current with all aspects of our trade. This makes our apprentices more marketable since they are current on all new methods along with "old school" techniques.
- Homework is done on-line so the instructor can see how you are progressing and to help point out any areas that you may need extra help with. Also by doing your homework on-line it frees up class time so there is more time for labs.
- Who chooses an electrical apprenticeship instead of college?
 - This career path is meant for someone who doesn't want to spend 4 years in school (unpaid) and stuck at a desk. This trade allows one to work outside, not have the same type job day to day, and travels anywhere, all while earning a livable income with great medical and retirement benefits.

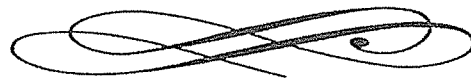


Stephen Harper, Training Director

Southwest Washington Electrical JATC

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Application Information Meeting



3rd Monday of every
Month @ 4:00 pm

Application information meeting will go into more about what each program has to offer & what you would be doing for the on the job training portion. It's a great time to learn more about the JATC & to answer questions.

SW WA Electrical JATC Application Process

- **If you have 2,000 electrical hours that can be registered with the State:**
 - Fill out an application
 - Provide required documentation:
 - Copy of any transcripts or GED with GED score
 - If applicable copy of DD214, Member 4
 - Proof of hours on file with L&I
 - Aptitude Test over Algebra & Reading Comprehension
 - Receive qualifying score (5 or higher)
 - 10-15 minute direct interview, placed on Ranking List
- **If you have 4,000 electrical hours that can be registered with the State:**
 - Fill out an application
 - Provide required documentation:
 - Copy of any transcripts or GED with GED score
 - If applicable copy of DD214, Member 4
 - Proof of hours on file with L&I
 - 10-15 minute direct interview, placed on Ranking List
- **If you are a military veteran that was honorable discharged within 5 years:**
 - Fill out an application
 - Provide required documentation:
 - Copy of any transcripts or GED with GED score
 - Copy of DD214, Member 4
 - If applicable proof of hours on file with L&I
 - Aptitude Test over Algebra & Reading Comprehension
 - 10-15 minute direct interview, placed on Ranking List
- **None of the above:**
 - Fill out an application
 - Provide required documentation
 - Proof of Algebra with a C or better
 - Proof of Graduation or GED with GED score
 - If applicable copy of DD214, Member 4
 - Aptitude Test over Algebra & Reading Comprehension
 - Receive qualifying score (5 or higher)
 - 10-15 minute interview, placed on Ranking List
- **Application:**
 - Mail in Application Request Form with application fee.
 - Once our office receives your request form you will be mailed an application.
 - More information can be found on our web-site: www.swjatc.org
- **Ranking / Eligibility List:**
 - Once interviewed you are placed the Eligibility List. The JATC pulls from the Eligibility List in order of Rank for job placement(s).

Southwest Washington Electrical JATC

3001 South 36th Street Suite A Tacoma, WA 98409 * 253-475-2922 * 253-474-7945 Fax * www.swjatc.org



Inside Wireman Apprenticeship

**Application Request Form can be found on-line @
www.swjatc.org or in our office Monday – Friday 8:00 am – 12:00
pm or 1:00 pm – 4:30 pm**

This JATC is pledged that the recruitment, selection, employment, and training of apprentices during their apprenticeship shall be without discrimination because of race, color, religion, national origin, age, or sex. To promote equality of opportunity, the JATC hereby pledges to take affirmative action to encourage minorities and women to complete the apprenticeship application and enter the eligibility pool.

TO QUALIFY FOR AN APPLICATION & INTERVIEW YOU MUST:

1. Complete an application form. (There is a \$50.00 non-refundable application fee payable at the time of application.)
2. Must be at least 18 years of age.
3. Must be willing to work in Pierce, Thurston, Mason, Lewis, Pacific, or Grays Harbor County.
4. Must be a high school graduate from a school accredited by a State Education Agency; or have a GED; or have completed a High School Equivalency; or have completed an Associate degree or higher from a school accredited by a State Education Agency.
5. Must submit an "OFFICIAL" high school transcript showing courses, grades, and proof of graduation. If you have a GED, you must submit a copy of your high school transcript along with your GED score. If you have an Associate Degree or higher, you must submit a copy of your high school transcript along with your college transcript.
6. Must submit an "OFFICIAL" transcript showing completion of one full year of high school Algebra with a "C" or better, or one post high school Algebra course.
7. If you have served in the military, you must submit a copy of your DD214.
8. You must make a qualifying score on the National JATC aptitude test.
9. Must have access to Internet with a working computer/laptop or tablet.
10. You must possess and maintain a valid Driver's License.

⇒ A waiver of the \$50.00 application fee is available to applicants who can show proof that they are receiving public assistance from the State of Washington OR you have a DD214 showing that you have been Honorably discharged within the last 5 years.

⇒ You have 60 days from the date of your application to submit all required documents. (Official Transcript means that it comes in a sealed envelope from the school).

⇒ You must meet all the requirements (1-7) before you will be eligible for the aptitude test.

⇒ TERMS OF THE TRAINING AGREEMENT ARE 8,000 HOURS OF ON-THE-JOB TRAINING, 1,600 HOURS PROBATION, PLUS 240 HOURS MINIMUM OF NON-COMPENSATED CLASSROOM RELATED TRAINING PER YEAR FOR FOUR (4) YEARS AT THE TACOMA, WA TRAINING CENTER.

Inside Wireman – 4-year program

Type of Work Performed by Inside Wiremen: Install conduit, electrical wiring, fixtures, and electrical apparatus inside commercial buildings and in a multitude of industrial settings.

Major duties for Inside Wiremen include:

- Planning and initiating projects
- Establishing temporary power during construction
- Establishing grounding systems
- Installing electrical service to buildings and other structures
- Establishing power distribution within a project
- Planning and installing raceway systems
- Installing new wiring and repairing old wiring
- Providing power and controls to motors, HVAC, and other equipment
- Installing receptacles, lighting systems, and fixtures
- Troubleshooting and repairing electrical systems
- Installing and repairing traffic signals, outdoor lighting, and outdoor power feeders
- Installing fire alarm systems

Wages: (Effective February 01, 2024, through August 30, 2024)

<i>Period</i>	<i>%</i>	<i>Amount on Check*</i>	<i>Requirements for raise</i>	<i>Wages & Benefits</i>
1	40	\$23.41	0	\$35.31
2	45	\$26.34	1,000 hours	\$38.45
3	55	\$32.19	2,000 hours + 1 st Yr. School Completed & Level 1 Craft Certification	\$50.80
4	65	\$38.04	3,500 hours + 2 nd Yr. School Completed & Level 2 Craft Cert	\$58.17
5	75	\$43.90	5,000 hours + 3 rd Yr. School Completed & Level 3 Craft Cert	\$65.56
6	85	\$49.75	6,500 hours + 4 th Yr. School Completed & Level 4 Craft Cert	\$72.91
	100	\$58.53	8,000 hours + School Completed & be Craft Certified	\$84.57

*If 0.00 is chosen on 401(K) deferral contributions

School: You will be attending class for a total of 200 hours per year. Classes will be held one day a week from 7:30-4:00 every week for three months & then off from school three month. The apprentice will continue with the 3 months on/off school rotation for the 1st thru 4th year. All students are required to have access to the internet with a working computer/laptop or tablet as homework will be done on-line.

Dues: Working dues are \$25 per month until initiated into the Union, your working dues will be around \$45.00 plus 1½ % of gross.

Aptitude Test

If you meet the basic requirements, you will be scheduled to take the NJATC apprenticeship test battery. The test battery consists of two (2) tests. It will take approximately two and a half hours to complete. The number of items and the amount of time allotted for each test is as follows:

Algebra and Functions (33 items - 46 minutes to complete) This tests your ability to solve problems using algebra.

Reading Comprehension (36 items - 51 minutes to complete) This tests your ability to obtain information from written passage.

If interested, your first step would be to complete an application. The application packet contains the information on how to submit the above requirements needed to qualify for the National JATC aptitude test.

Southwest Washington Electrical JATC

3001 South 36th Street Suite A Tacoma, WA 98409 * 253-475-2922 253-474-7945 Fax * www.swjadc.org



Low Energy/Sound and Communication Apprenticeship

**Application Request Form can be found on-line @ www.swjadc.org or
in our office Monday – Friday 8:00 am – 12:00 pm or 1:00 pm – 4:30 pm**

This JATC is pledged that the recruitment, selection, employment, and training of apprentices during their apprenticeship shall be without discrimination because of race, color, religion, national origin, age, or sex. To promote equality of opportunity, the JATC hereby pledges to take affirmative action to encourage minorities and women to complete the apprenticeship application and enter the eligibility pool.

TO QUALIFY FOR AN APPLICATION & INTERVIEW YOU MUST:

1. Complete an application form. (There is a \$50.00 non-refundable application fee payable at the time of application.)
2. Must be at least 18 years of age.
3. Must be willing to work in Pierce, Thurston, Mason, Lewis, Pacific or Grays Harbor County.
4. Must be a high school graduate from a school accredited by a State Education Agency; or have a GED; or have completed a High School Equivalency; or have completed an Associate degree or higher from a school accredited by a State Education Agency.
5. Must submit an "OFFICIAL" high school transcript showing courses, grades, and proof of graduation. If you have a GED, you must submit a copy of your high school transcript along with your GED score. If you have an Associate's Degree or higher, you must submit a copy of your high school transcript along with your College transcript.
6. Must submit an "OFFICIAL" transcript showing completion of either one full year of high school Algebra or one-quarter College Intermediate Algebra with a passing grade.
7. If you have served in the military, you must submit a copy of your DD214.
8. Must have access to Internet with a working computer/laptop or tablet.
9. You must possess and maintain a valid Driver's License.
10. You must make a qualifying score on the National JATC aptitude test.

➡ A waiver of the \$50.00 application fee is available to applicants who can show proof that they are receiving public assistance from the state of Washington.

➡ You have 60 days from the date of your application to submit all required documents. (Official Transcript means that it comes in a sealed envelope from the school).

➡ You must meet all the requirements (1-7) before you will be eligible for the aptitude test.

➡ TERMS OF THE TRAINING AGREEMENT ARE 4,800 HOURS OF ON-THE-JOB TRAINING, 960 HOURS PROBATION, PLUS 160 HOURS MINIMUM OF NON-COMPENSATED CLASSROOM RELATED TRAINING PER YEAR FOR THREE (3) YEARS AT THE TACOMA, WA TRAINING CENTER.

Low Energy/Sound & Communication – 3-year program

Work Processes involved in Low Energy/Sound and Communication Apprenticeship:

- Residential: Wiring of residences, duplexes, and small apartment buildings along with necessary shop work and preparation.
- Commercial: Wiring of public, commercial, school, and hospital buildings; the installation and repair of all equipment therein; and necessary shop work and preparation.
- Industrial: Wiring of all industrial buildings and equipment; the maintenance, repair, and alteration of the same; and necessary shop work and preparation.
- Specialized: Wiring of systems which include sound data transmission, telephone, LAN, fiber optics, closed circuit television, fire alarm systems, energy management systems, security systems along with the servicing and troubleshooting of telecommunications systems.

Wages: (August 01, 2023 to July 31, 2024)

%	Hourly amount on Check*	Requirements for raise	Wages & Benefits
55	\$21.99	0 - 800 hours of on-the-job training (OJT)	\$33.12
60	\$23.99	801 - 1,600 hours of OJT	\$35.39
65	\$25.99	1,601 - 2,400 hours of OJT	\$37.64
70	\$27.99	2,401 - 3,200 hours of OJT	\$39.91
80	\$31.98	3,201 - 4,000 hours of OJT	\$44.42
85	\$33.98	4,001 - 4,800 hours of OJT	\$46.67
100	\$39.98	4,800 of OJT and completion of all schooling	\$53.46

*If 0.00 is chosen on 401(k) deferral contributions

School: Mandatory school is held September through May; one night per week for 4 hours. Books, tuition, and lab fees will be approximately \$1,200-\$1,400 per year.

Dues: Working dues are \$25 per month until initiated into the Union, your working dues will be around \$45.00 plus 1½ % of gross.

Aptitude Test

If you meet the basic requirements, you will be scheduled to take the NJATC apprenticeship test battery. The test battery consists of two (2) tests. It will take approximately two and a half hours to complete. The number of items and the amount of time allotted for each test is as follows:

Algebra and Functions (33 items - 46 minutes to complete) This test your ability to solve problems using algebra.

Reading Comprehension (36 items - 51 minutes to complete) This test your ability to obtain information from written passages.

If interested, your first step would be to complete an application. The application packet contains the information on how to submit the above requirements needed to qualify for the National JATC aptitude test.

Southwest Washington Electrical JATC

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Residential Wireman Apprenticeship

**Application Request Form can be found on-line @
www.swjatc.org or in our office Monday – Friday 8:00 am – 12:00
pm or 1:00 pm – 4:30 pm**

This JATC is pledged that the recruitment, selection, employment, and training of apprentices during their apprenticeship shall be without discrimination because of race, color, and religion, national origin, age, or sex. To promote equality of opportunity, the JATC hereby pledges to take affirmative action to encourage minorities and women to complete the apprenticeship application and enter the eligibility pool.

TO QUALIFY FOR AN INTERVIEW YOU MUST:

1. Complete an application form. ~~(There is a \$50.00 non-refundable application fee payable at the time of application. Cash or Check only.)~~
2. Must be at least 18 years of age.
3. Must be willing to work in Pierce, Thurston, Mason, Lewis, Pacific, or Grays Harbor County.
4. Must be a high school graduate from a school accredited by a State Education Agency; or have a GED; or have completed a High School Equivalency; or have completed an Associate degree or higher from a school accredited by a State Education Agency.
5. Must submit an "OFFICIAL" high school transcript showing courses, grades, and proof of graduation. If you have a GED, you must submit a copy of your high school transcript along with your GED score.
6. Must submit an "OFFICIAL" transcript showing completion of one full year of high school Math with a passing grade.
7. If you have served in the military, you must submit a copy of your DD214.
8. Must have access to Internet with a working computer/laptop or tablet.
9. You must possess and maintain a valid Driver's License.

➡ ~~A waiver of the \$50.00 application fee is available to applicants who can show proof that they are receiving public assistance from the state of Washington. This program has no application fee.~~

➡ You have 60 days from the date of your application to submit all required documents.
(Official Transcript means that it comes in a sealed envelope from the school).

➡ You must meet all of the requirements (1-7) before you will be eligible for an interview.

➡ TERMS OF THE TRAINING AGREEMENT ARE 4,000 HOURS OF ON-THE-JOB TRAINING, 840 HOURS PROBATION, PLUS 160 HOURS MINIMUM OF NON-COMPENSATED CLASSROOM RELATED TRAINING PER YEAR FOR TWO (2) YEARS AT THE TACOMA, WA TRAINING CENTER.

Residential Wireman – 2-year program

Work Processes for Residential Wiremen Apprentices:

1. Wiring of outlets in single and multiple family residences and apartment buildings.
2. Wiring for service connection meters and distribution.
3. Major appliance installation and service.
4. Remodeling of residential buildings.
5. Installation and service on TV & FM antenna systems, intercom systems & music systems.
6. Installation, service and controls of electric heat and air conditioning.

Wages: (January 1, 2024, to June 30, 2024)

%	Amount on Check*	Requirements for raise	Wages & Benefits
62	\$20.73	0 – 1,000 hours of on-the-job training	\$31.79
72	\$24.08	1,001 – 2,000 of OJT	\$35.65
80	\$26.75	2,001 – 3,000 of OJT	\$38.73
87	\$29.09	3,001 – 4,000 of OJT	\$41.42
100	\$33.44	4,000 of OJT & Completion of all schooling	\$46.43

*If 0.00 is chosen on 401(k) deferral contributions

School: Mandatory school is held September through May; one night per week for 4 hours.

Dues: Working dues are \$25 per month until initiated into the Union, your working dues will be around \$45.00 plus 1½ % of gross.

If interested, your first step would be to complete an application. The application packet contains the information on how to submit the above requirements needed to qualify for the interview.

Can I apply for all three (3) programs?

The Committee is requesting that you only apply for the program that you would really like to pursue. It has become difficult when the applicant applies for all 3 programs and they get selected for the program that they did not really want. The Committee does not want to pick your trade they want the applicant to really want the trade that they have applied for.

What happens once I turn in my application?

Nothing happens until your application is returned to our office and you have submitted your transcripts to prove you meet all the minimum requirements. Once we have those items your file goes onto a waiting list for the next available aptitude test if you applied for the Inside or Low Voltage program. If you applied for the Residential program you will go onto a waiting list for the next available interview.

How do I find out when I am scheduled for an aptitude test?

You will receive a letter in the mail & and e-mail from us regarding your test date and time.

I have hours in the field already can I still apply?

Yes, you can still apply. Here is how we handle applicants with hours.

If you have 2,000 electrical hours registered with the State in categories 01, 02 or 06:

- Fill out an application.
- Provide required documentation:
 - Copy of any transcripts or GED.
 - If applicable copy of DD214
 - Proof of hours on file with L&I
- Aptitude Test over Algebra & Reading Comprehension
 - Receive qualifying score (5 or higher)
- 10–15 minute direct interview, placed on Ranking List

If you have 4,000 electrical hours registered with the State in categories 01, 02 or 06:

- Fill out an application.
- Provide required documentation:
 - Copy of any transcripts or GED.
 - If applicable copy of DD214
 - Proof of hours on file with L&I
- 10–15 minute direct interview, placed on Ranking List

What if my hours are from another State or Military?

Your first stop will be to Labor and Industries. You will need to have those hours converted to a Washington Electrical Trainee Card. Our apprenticeship can only recognize hours on file with Labor and Industries. Once you have done that, please refer to the prior question.

What if I do not pass the aptitude test on the first try?

You will have to wait six (6) months before you can re-apply to take the test again. WE will transfer your transcripts to your new file upon re-application.

What happens once I am eligible for an interview?

Once you have turned in your application, transcripts, and if applicable your DD214 and have passed the aptitude test now it is time for your interview with the Committee. Once an interview date has been selected you will be notified by mail on your interview date and time. Enclosed with that letter will be a Questionnaire and Drug Policy. The Questionnaire and Drug Policy must be filled out, signed, and returned to our office by the date requested. The return date will be clearly stated in your paperwork. Failure to turn in your Questionnaire and Drug Policy by the date given will cancel your interview and application.

What happens if I miss my interview?

If you have missed your interview due to being late (yes even if it is only 2 minutes) or not turning in your questionnaire you may re-apply six (6) months after your missed interview.

What does my interview score and rank mean?

Your interview score is the average score (out of 100) given to you by the Committee. That score is then entered onto our Ranking List. The Ranking List is the list that is used to pull applicants for employment. The higher your interview score the higher your rank is on the Ranking List.

Example: Your score is 94 and your rank is 5. That means that you would be the 5th person called out for employment.

OR

Your score was 90.25 and your rank is 35. That means that you would be the 35th person called out for employment. However, keep in mind that your rank can move up and down the Ranking List as people are placed for employment or as new applicants are interviewed. So, a rank of 35 could turn into a rank of 17 or 150.

Your score will be the same for two (2) years, but as mentioned your ranking on the ranking list is in constant motion.

What can I do to re-apply to try and increase my interview score?

To apply for a re-interview, you must first wait six (6) months from your original interview date. By then you must have completed a minimum of 1,000 hours of Electrical Construction work or two (2) or more college credited classes since your last interview date. Classes must be trade related (i.e. math, electrical welding, etc.) also classes must be one (1) quarter in length. Electrical Construction means working as a material handler, working for an electrical wholesale house, or working in the field adding hours to an electrical trainee card.

What happens if I have been accepted?

Congratulations. Now what? First off you will receive a letter telling you that you will have a week of safety orientation. During safety orientation we will cover First Aid, CPR, Electrical Safety, OSHA, expose you to pipe bending, and a few other tricks about surviving on the job site. We will also cover the JATC rules and policies and what to expect now that you are here!!

Once you have completed this week of orientation, you are now eligible to be placed on a job site for employment. You will be dispatched out for work from the JATC one we have a job for you. If we have current apprentices on our Out of Work List, they will need to be placed for work first. WE are not able to place incoming apprentices for work until all existing apprentices are working.

Now for the scary part – Sometimes on the last day of your orientation you will already have a dispatch from us for job placement. Other times you may not. Hopefully by the end of orientation if we do not have a job placement for you, we should have an estimated time that you will be in the field. Keep in mind, construction is very much tied to the economy. WE are unable to predict slow down periods or even boom periods. When you do become an apprentice and you find yourself un-employed, please remember you are able to collect unemployment.

Why do I have to have Internet access and a working computer/laptop or table?

Homework is done on-line to the instructor can see how you are progressing and to help point out any areas that you may need extra help with. Also, by doing your homework on-line it frees up class time so there is more time for labs.

What is a Ranking or Eligibility List?

Once interviewed you are placed on the Eligibility List (Also known as Ranking List). The JATC pulls from the Eligibility List in order of Rank for job placement(s).

Sample Algebra & Functions

This is a test of your ability to solve problems using algebra.

1. Consider the following formula: $A = B + 3(4 - C)$

If B equals 5 & C equals 2 what is the value of A?

- A. 7
- B. 11
- C. 12
- D. 17

2. Consider the following formula: $Y = 3(x+5)(x-2)$

Which of the following formulas is equivalent to this one?

- A. $Y = 3x^2 + 9x - 30$
- B. $Y = x^2 + 3x - 10$
- C. $Y = 3x^2 + 3x - 10$
- D. $Y = 3x^2 + 3x - 30$

3. Consider the following pattern of numbers:

110, 112, 107, 109, 104

What is the next number in the pattern?

- A. 97
- B. 99
- C. 106
- D. 109

4. Consider the following formula:

$$A = \frac{1}{2}b - 4$$

Which of the following statements is true for this formula?

- A. When the value of b is less than 8, a is negative.
- B. When the value of b is great than 8, a is negative.
- C. When the value of b is less than 8, a is positive.
- D. When the value of b is greater than 4, a is positive.

5. Consider the following table:

X	Y
0	-5
1	-4
2	-3
3	-2
4	-1
5	0
6	1

Which of the following choices represents the same relationship as demonstrated in this table?

A.

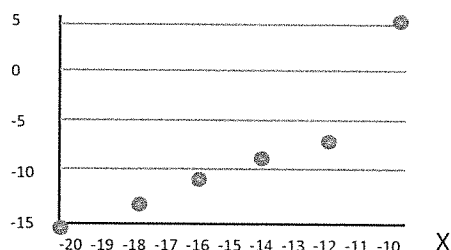
X	Y
10	-40
20	-30
30	-20

40 -10

B. $Y = \frac{X}{2} - 5$

C. Y is equivalent to the difference between the value of X and a constant C, where C equals 5.

D.



Sample Reading Comprehension

This test measures your ability to obtain information from written passages. You will be presented with a passage followed by several questions about it. A sample passage is shown below followed by three sample questions. This passage is shorter than those on the actual test.

Passage:

The timing of New Year's Day has changed with customs and calendars. The Mayan civilization, on what is now called the Yucatan peninsula of Mexico, celebrated the New Year on one of the two days when the noonday sun is directly overhead. In the equatorial regions of the earth, between the Tropics of Cancer and Capricorn, the sun is in this position twice a year, once on its passage southward, and once on its passage northward. At the early Mayan city of Izapa in the southern Yucatan, the overhead date for the sun on its southward passage was August 13. The Mayans celebrated this as the date for the beginning of the new year. Later, at the more northerly Mayan site of Edzna, the corresponding overhead date is July 26. Analyses of Maya pictorial calendars indicate that they celebrated the New Year on August 13 prior to 150 AD, and on July 26 after that year. This change has been explained by archaeological dating showing that 150 AD was the time that they Mayans moved the hub of their civilization from the southern to the norther site.

- According to the passage, the sun at Edzna was directly overhead at noon on:
 - July 26 only
 - August 13 only
 - July 26 and one other date
 - August 13 and one other date
- If the Mayans had moved their civilization's center south of Izapa, their new date for celebration of the New Year would probably have been closest to which of the following dates?
 - January 1
 - February 20
 - March 25
 - September 15
- Why did the Mayans move their capital city from Izapa to Edzna?
 - The climate at Edzna was more temperate.
 - Lunar eclipses were more visible at Edzna
 - The terrain near Edzna was more suitable for agriculture.
 - Cannot be determined from the information given.

Answer Key

Algebra & Functions:

- B
- A
- C
- A
- C

Reading Comprehension:

- C
- D
- D

Name of Test	# of Items	# of Minutes
Algebra & Functions	33	46
Reading Comprehension	36	51

Additional Sample Algebra & Functions:

- Work with positive & negative real number, and the order of operations.
Simplify: $-5 + (-4)(-3) - 3^2$
- Simplify expressions:
 - $3(2x^2 - 3xy + y) - (y - x^2 + 2xy)$
 - $\frac{12a^5b^{-2}}{8a^{-3}b^7}$
- Expand and collect like terms:
 - $(3x-5)(6x+7)$
 - $(2x-3)^2$
- Factor:
 - $x^2-5x-14$
 - $6a^2b^3 - 3a^2b$
- Solve for X:
 - $3x - (x+4) - 5 = 5(x-4) - 4$
 - $3x - 5y + 6 = 0$
 - $x^2 - 5x - 14 = 0$
- Evaluate expressions:
 - If $x = -3$, evaluate $x^2 - 2x - 1$
- Find the equation of the line passing through 2 given points:
 $(2,-1)$ $(-1, -7)$
- Solve a system of equations by ALL the following methods: substitution, elimination by addition (linear combinations), and graphically.

Given:
$$\begin{cases} 2x + y = -3 \\ 3x + 4y = -2 \end{cases}$$
- Solve a first-degree inequality in one variable:

Given: $8 - 5x \geq 3x + 9$, solve for x

Answer Key:

- 2
- A) $7x^2 - 11xy + 2y$
- B) $\frac{3a^8}{2b^9}$
- A) $18x^2 - 9x - 35$
B) $4x^2 - 12x + 9$
- A) $(x-7)(x+2)$
B) $3a^2b(2b^2-1)$
- A) $x = 5$
B) $x = \frac{5y-6}{3}$
C) $x = 7, x = -2$
- 14
- $y = 2x - 5$
- $x = -2, y = 1$
- $x \leq -\frac{1}{4}$ or $-\frac{1}{4} \geq x$

For Your Information:

These tests are validated for use by sponsors of IBEW/NECA electrical apprenticeship programs. They have been developed to assist in the selection of apprentices for the respective apprenticeship programs.

The fact that an applicant is not scheduled for an oral interview, as a result of this test battery, does not speak for the applicant's ability, or lack thereof, to be most successful in many other occupations. This test was specifically developed to assist our program sponsors, helping them to select those who are most likely to succeed in our apprenticeship program.

Many apprenticeship programs receive large numbers of applicants – four, five, or six or more times the number of new apprenticeship openings (as defined by the limited number of job and training opportunities being available at a given time). The validated testing instrument is a tool to assist in the selection of the very best applicants that have an aptitude matching the specified job performance requirements. In this way, the number of applicants brought to the interview table is based upon objective, equitable, job-related criteria.

If You Think You Need Extra Help: (The ElectricPrep course is NOT a substitute for the Algebra requirement)

ElectricPrep helps in providing voluntary online courses, specifically crafted for applicants seeking to enter the IBEW/NECA electrical apprenticeship. Website for ElectricPrep is: ElectricPrep.com
Please remember that this is completely voluntary and is not a requirement of the SW WA Electrical JATC

If You Do Not Meet the Algebra Requirement:

If you do not have the required Algebra needed to make application you have a few options:

1. Take the NJATC Tech Math course and provide the documentation needed of having passed the course with a 75% or higher. The web site for this class is:
<http://electricaltrainingalliance.org/Learning/OnlineTechMath>
2. Take a quarter of Algebra at a Community College of your choice. Please keep in mind that it must be a school accredited by a State Education Agency and you must receive a passing grade.

Southwest Washington Electrical JATC:

The Southwest Washington Electrical Joint Apprenticeship and Training Committee is a registered apprenticeship with the State of Washington. Our Standards have been Approved by Washington State Apprenticeship and Training Council and is Registered with Apprenticeship Section of Fraud Prevention and Labor Standards. Washington State Department Labor & Industries P.O. Box 44530 Olympia, WA 98504-4530.

Our current Apprenticeship Consultant is: Evan Hamilton

Apprenticeship program standards govern how an apprenticeship works and have specific requirements. The WSATC is the sole regulatory body for apprenticeship standards in Washington. It approves, administers, and enforces apprenticeship standards, and recognizes apprentices when either registered with L&I apprenticeship section, or under the terms and conditions of a reciprocal agreement. Apprenticeships are governed by federal law (29.U.S.C 50), federal regulations (29 CFR Part 29 & 30), state law (49.04 RCW) and administrative rules (WAC 296-05).

IBEW**NECA****Southwest Washington Electrical JATC**

3001 S 36th St, Suite A • Tacoma, Washington 98409

Phone: (253) 475-2922 Fax: (253) 474-7945

www.swjatc.org

*Barry Blackburn, Training Director***Apprenticeship Application Request**

To receive an application by mail, return this completed form and \$50.00 application fee to the JATC.

Applications are also taken in-person between the operating hours of 8 am to 4:30 pm. Monday through Friday.

Closed 12-1 for lunch. Closed all major holidays.

Name:	
Mailing Address:	
City, State & Zip:	
Phone Number:	
E-Mail:	
Driver's License # & Expiration:	

Which program are you applying for:

<input type="checkbox"/>	Inside Wireman (4 Year Program) (\$50.00 app fee)
<input type="checkbox"/>	Low Voltage (3 Year Program) (\$50.00 app fee)
<input type="checkbox"/>	Residential Wireman (2 Year Program) (No app fee)



Place a check by the
program's name. Only apply
for **ONE** program.

Have you completed or are you currently completing a two-year degree in the construction field at a Washington accredited trade school (Bates, Clover Park Tech)? Yes ☐ No ☐

Do you have prior electrical experience & your hours are on file with L&I? Yes ☐ No ☐

Have you previously applied with the JATC within the last five years? Yes ☐ No ☐

Have you been Honorably discharged from the Military within the last 5 years? Yes ☐ No ☐

Do you receive public assistance (food, medical, unemployment)? Yes ☐ No ☐

If Yes to any of the above questions Documentation is Required

Application fee is \$50.00 (Inside & Low Voltage Only) that can be paid by cash, check, money order or if applying in person by debit/credit card. If paying by check please make it out to SW WA Electrical JATC. If you receive public assistance the application fee will be waived but documentation is required. Residential does not have an application fee.

If your check is returned by your banking institution, your application will be withheld from further processing until full payments is properly made. Including reimbursement for any returned check charges.

The recruitment, selection, employment & training of apprentices during their apprenticeship, shall be without discrimination because of race, color, religion, national origin, sex, or age.

Turn Over for Back Side Information & Signature **For JATC Use Only:****Application #:****Date Received:****Payment Method:**

Information Needed to Complete the Application Process

As an applicant for the apprenticeship program, I understand that it is my responsibility to provide all the following information. I further acknowledge that I must submit all required information to the JATC within the time frame provided below. Therefore, I am responsible to see that all documents are received by the JATC.

When First Applying:

Completed Apprenticeship Application Request Form

DD214 if you have been Honorably discharged from the Military within the last 5 years.

If you are still active duty in the military you will need a memo from your current commanding officer stating your name, estimated departure date & under what conditions (Honorable, General).

Veteran's Honorably discharged from the Military within the last 5 years receive the below accommodations:

- Waiver of application fee
- Must still take aptitude test but is used for counseling purposes only.
- Guaranteed an interview.

After submitting Apprenticeship Application Request form:

You will have **10 days** to return the actual application to the JATC.

You will have **60 days** to return the required documents to complete the application.

- Provide documentation of being a high school graduate or have a GED (with score sheet) or having a two-year Associate Degree or higher.
- Provide an **OFFICIAL** transcript from high school and post high school education and training. All GED records must be submitted if applicable.
- Proved evidence of successful completion of one full year of high school algebra with a C or better, or one post high school algebra course with a passing grade – if not already provided on **Official** High School transcripts submitted.
- If you have prior electrical experience & your hours are on file with L&I a "print screen of hours" from L&I will need to be provided.

PLEASE NOTE

To qualify for an oral interview, an applicant must obtain a score of "5" or higher (Inside), "4" or higher (Low Voltage), using the electrical trade's aptitude test developed and validated by the American Institutes for Research. Residential applicants do not take the aptitude test.

Applicants are not scheduled for the above mention aptitude test until all required documents have been submitted to the JATC. Completed application, submitted official documentation showing proof of graduation and meeting the algebra requirement.

Applicants who qualify for an oral interview are interviewed in the order in which they complete the application process.

Apprenticeship Program Participation

As an apprentice in this apprenticeship and training program you may be required to report for on-the-job training assignments anywhere within the employment jurisdiction of the JATC. The geographic jurisdiction, by county, of this JATC is as follows:

In the State of Washington, the Counties of: Pierce, Thurston, Lewis, Grays Harbor, Mason & Pacific.

I hereby request an application packet to apply for the Apprenticeship with the SW WA Electrical JATC. I understand & accept full responsibility for completing the application upon receipt and returning it to the JATC along with all other required documentation within my allotted time frame. I understand that it is my responsibility to keep the JATC notified of my current mailing address & contact information.

Signature: _____

Date: _____

[Print Form](#)

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