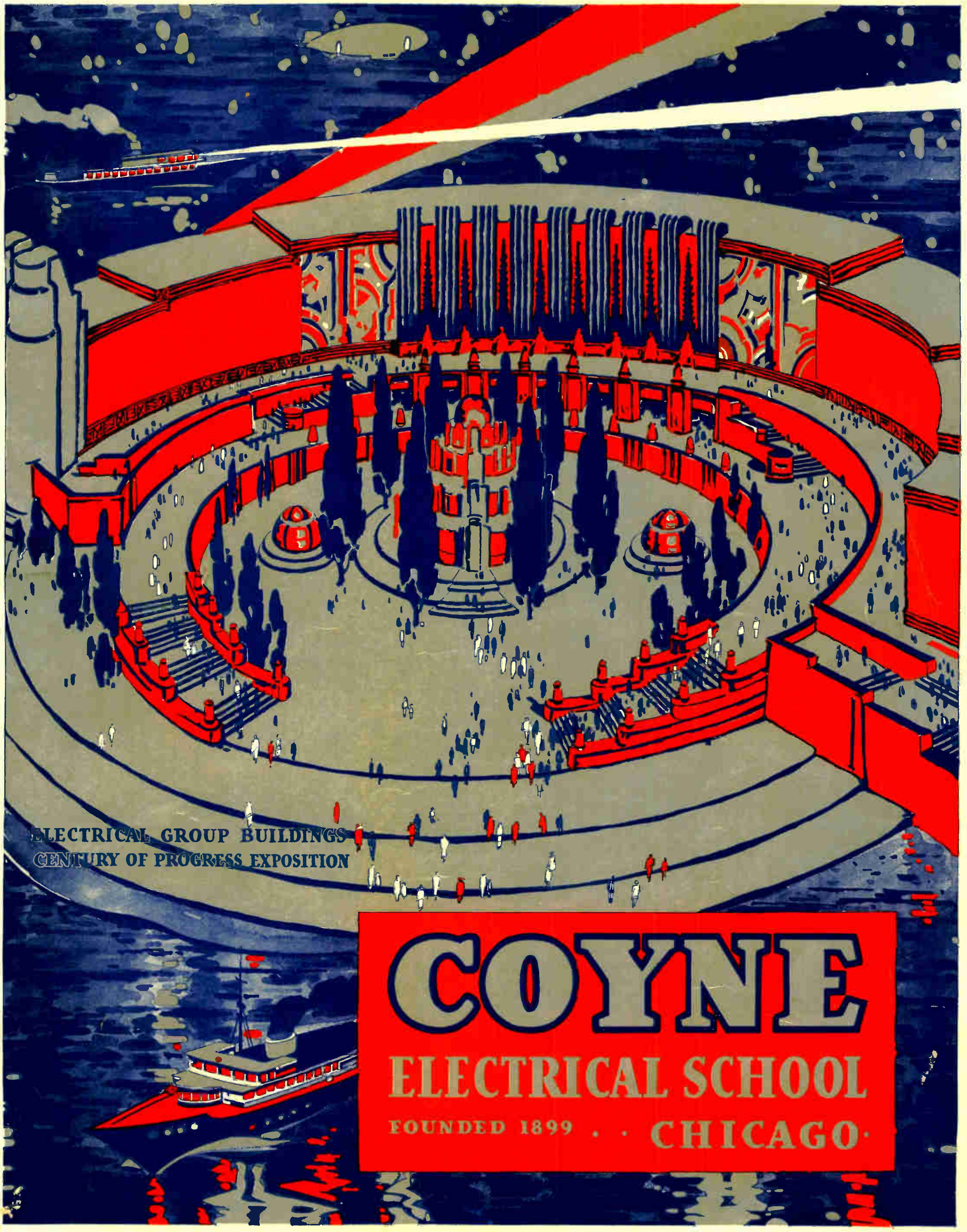


COYNE

ELECTRICAL SCHOOL

FOUNDED 1899 . . CHICAGO

H. C. Lewis, President
Coyne Electrical School

IF YOU, my friend, have not as yet made much of a success in life; if you haven't earned much money, or gotten very far ahead, you may possibly not have a great deal of confidence in yourself. If so, I can understand just how you feel. For Success brings you confidence, and I don't know of anything else that will.

So when you read the amazing story of electricity and the many opportunities it offers you in the pages that follow in this big book, I realize I cannot expect you to have the same confidence that I have that all these things **can really happen to you.** I expect you to think, "Well, that all sounds fine, but I just can't believe it. It seems too good to be true."

The average untrained fellow, slaving along on a routine, blind-alley job at $15, $20 or $25 a week just can't picture himself as ever making $50 or $60 or more a week. The idea is so amazzing to him, so far beyond his horizon, and the things he has been used to, that he would scarcely believe you if you shoved a signed, gold-bond contract in front of him.

But every successful man looks back upon this same time in his life when he, too, lacked confidence in himself, when he was going through this same period of "stage fright." But the greatest courage in the world is going ahead and doing something **in spite of** fear. So these men **acted,** they had **nerve,** they **dared** to make the GO AHEAD decision in spite of their lack of confidence. **And now they are Big Pay, Successful Men.**

My friend, the big book whose pages are now before you, tells you how **you can succeed**—how **you** can say good-bye forever to that miserable job, to those long hours of drudgery, to the human bugaboos of "hard times" and "lay-offs"—**and good-bye forever to that thin pay envelope.**

A new Day has dawned for you.

Read the pages that follow. All I ask is that you put your faith in me, no matter how little confidence you may have in yourself. **I'll do the rest!**

H. C. Lewis.

President.

COYNE *founded* 1899

The Great New Home of Coyne

—Where You Will Spend the Most Important 90 Days of Your Life!

STANDING four-square in the heart of the World's Electrical Center, the new home of Coyne is a mighty monument to the principles upon which this institution was established, 34 years ago.

Naturally you would expect America's leading institution of practical training to be housed in the finest building of its kind. And when you catch your first glimpse of Coyne, you will not be disappointed.

It's a big building—59,400 square feet of floor space, every inch of which is devoted to this school. Absolutely fireproof, of the very latest type construction, it was built to our own specifications solely for instruction purposes.

You will notice the vast number of windows on all four sides, flooding the building with cheery, healthful sunlight. In addition, we have installed automatic ventilating machinery, so that every part of the building will have clean fresh air at all times.

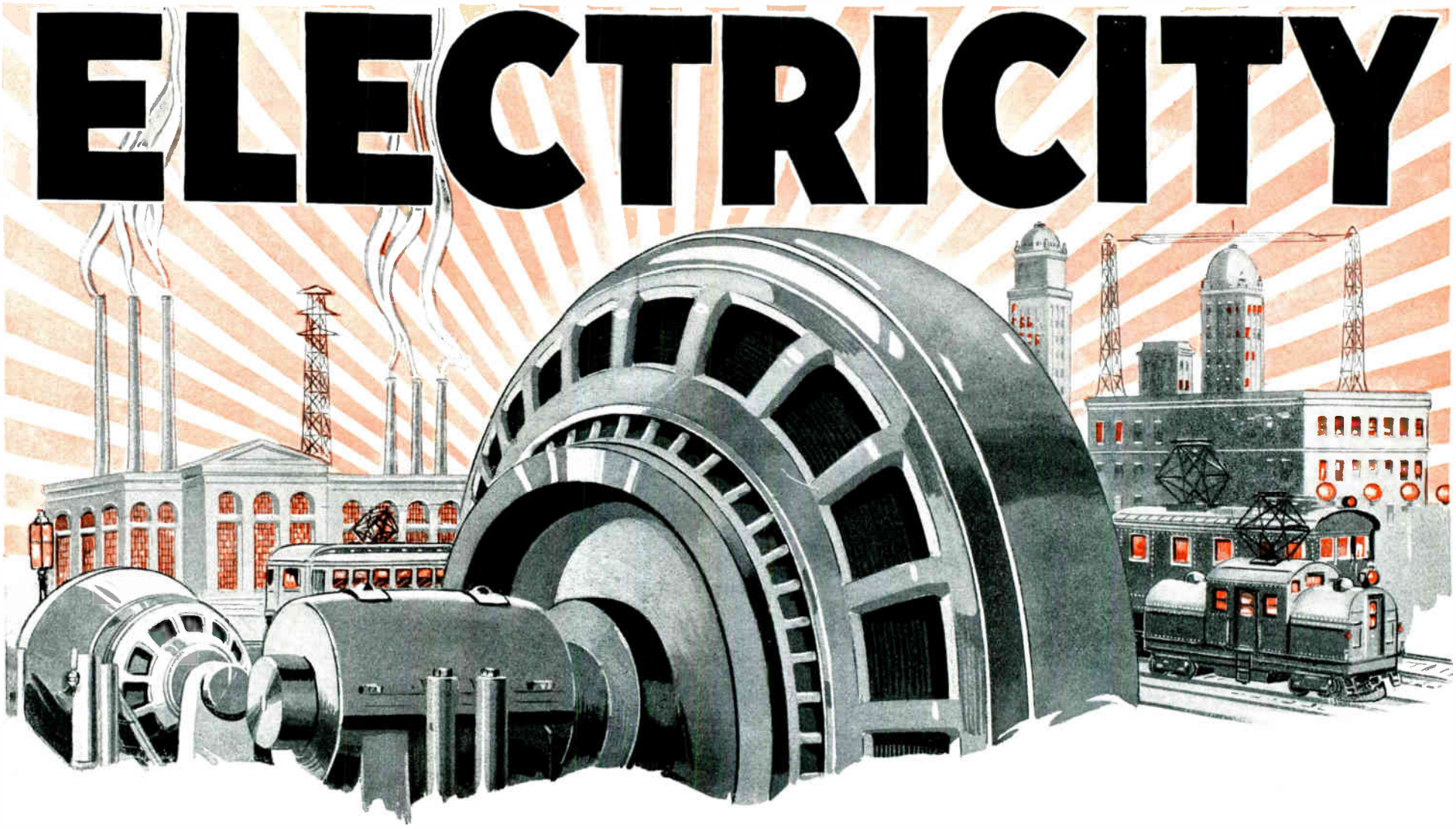
But what will particularly impress you about our new home is its clean-cut, business-like appearance. There are no fancy frills, just as there are no costly, unnecessary trimmings on Coyne Training.

Within the walls of Coyne you will find what I sincerely believe is the largest, most up-to-date array of electrical equipment ever assembled for training men. And every motor, generator, switchboard and other equipment plays a definite part in this task of training YOU for Electricity's greatest opportunities.

What this training does, and what these opportunities are, you will learn in the following pages. But right now I want to bid you **welcome to Coyne** and **welcome to Electricity**, the SCHOOL and the INDUSTRY that offer you—SUCCESS!

COYNE HAS GROWN UP WITH THE ELECTRICAL INDUSTRY

ELECTRICITY



FIRST, let's get acquainted with Electricity, the strange, fascinating form of power that has transformed our modern life. Even people who know but little about it are thrilled by the almost magical things it does. But to men who are trained, Electricity is more than a mysterious force—it is a tremendous profession, brimming with Opportunities!

Electricity has grown so fast, and spread out in so many directions, that new jobs and new opportunities are constantly being created. In hard times we may cut down on luxuries. But our street cars **have** to run—our telephones **have** to work—our lights **have** to stay on—our telegrams **have** to go—and our factories **have** to operate. So there can be no shutdowns or big depressions in the Electrical Trade. Electricity **must stay in action** or other industries would stand still!

Electricity Is the "Heart" of Modern Industry

SOME folks think of Electricity as applying only to street cars, power plants, and electric lights. Of course these are important uses of Electricity, but they do not begin to cover the marvelous opportunities in the Electrical field.

Electricity is the "heart" of modern industry. Without it we would have no automobiles, airplanes, telephones, telegrams, radios, talking pictures, television, elevators, subways, electric refrigeration, X-rays, etc. And **all** of our factories would again have to be operated by steam or gas engines, at a much slower speed and much less efficiently.

So Electricity is **not** just lighting our homes and running our street cars. Electricity is operating thousands of factories and giving employment to more Trained Men than any other calling on earth!

ELECTRICITY *Offers* YOU, *as a Trained Man, Wonderful Opportunities for Steady Work and a Real Future. Qualify Quickly for Jobs Paying a Good Salary Every Week. Or Start Your Own Shop and Be Independent ! . . . . .*

A Few of
The Opportunities in Electricity

Contractor-Dealer	$3,000 to $15,000 a year
Power Plant & Substation Operation	30.00 to 60.00 a week
Maintenance Engineering	200.00 to 500.00 a month
Armature Winding and Repairing	40.00 to 65.00 a week
Motor Inspection	150.00 to 300.00 a month
Illumination Layout	40.00 to 70.00 a week
Radio Servicing	150.00 to 400.00 a month
Motor and Appliance Repair	2,500 to 10,000 a year
Signal Engineering	40.00 to 80.00 a week
Auto, Truck and Tractor Ignition Work	35.00 to 65.00 a week
Aviation Ignition	40.00 to 100.00 a week
Battery Manufacturing and Repairing	3,000 to 8,000 a year
Farm Lighting Plant Servicing	40.00 to 75.00 a week
Service Station Operation (Own Business)	3,000 to 12,000 a year

No applications accepted from negroes

Share in Electricity's Continued Prosperity

ALREADY Electricity is running our trains, lighting our homes, washing and ironing our clothes, freezing our ice, starting our automobiles, operating our radios and telephones and talking pictures. Already Electricity is helping to mine our coal, make our steel, produce our gasoline, and manufacture practically every article in daily use. Already Electricity is the most thriving, thrilling trade in the world.

And yet, Electricity has just started to grow! The next few years will see amazing developments and expansion.

Last year, a year of hard times in so many fields, Electricity added **100,000 new customers!** The use of Electricity in homes and on farms increased 8 per cent! Over 90,000 more farms were electrified—the greatest gain in farm electrification of any single year in history!

Does that sound like depression? Not much! And now, with Prosperity definitely returning, you can expect even greater advances and even greater opportunities than ever before, as a Trained Electrical Man!

THE BIG PAY FIELD

Many New Electrical Jobs Will Be Created This Year

IT has been estimated that 50,000 to 75,000 new electrical jobs will be created each year for many years to come.

Just recently the Philadelphia Electric Company started a new project, to cost $8,000,000. And this project, officials stated, would mean the permanent employment of 800 trained men! Moreover, building that equipment would provide work for 150 men for about a year.

Now—in that same month, investors poured over ONE HUNDRED MILLIONS OF DOLLARS into the Electric Light and Power Industry! On the basis of the Philadelphia Electric Company's figures, that would mean steady jobs for 10,000 more Trained Men, besides the number needed to manufacture this equipment. And that was only ONE MONTH'S GROWTH in the Electric Power field, which is in itself only a small part of the vast Electrical Industry!

Why, then, be satisfied to drift along in your present line, constantly threatened with pay-cuts and lay-offs, faced with the danger of losing your job, with nothing to look forward to in your old age? Get into Electricity NOW!

Can You Make Good Money in Electricity?

THE late Thomas A. Edison, whose invention of the electric light and the modern central station started Electricity on its sensational growth, said not long before his death:

"How badly this country needs competent engineers and electricians! It needs them even more today than ever before! ALMOST ANY SALARY WILL BE PAID BY ELECTRICAL COMPANIES FOR THOROUGHLY TRAINED MEN IN THIS LINE. And how easy it is to qualify for such places. It only takes a little study—a little concentrated thinking—and the deed is done."

At the recent celebration marking the fiftieth anniversary of Edison's first power plant, the head of the New York Edison Co. gave some figures to show the money that is being paid in salaries. His company has 48,549 employes, and its annual payroll is $90,617,000—almost $36 per week per employe. And when you consider that this includes office help and untrained men, you can see that the pay for Trained Electrical Men is far higher.

It's a FACT that salaries of $50.00, $60.00, and up to $100.00 a week and more, are being paid to thousands of Trained Men in Electricity. And these men are no smarter than you—they simply have the TRAINING that enables them to fill these good jobs. As a Coyne Trained Man you will have this same earning power—and you will be ready to cash in on the tremendous expansion of the Electrical Industry which is even now taking place.

The Many Branches of Electricity Will Be Open to You

HERE at Coyne you learn all important branches of Electricity—not just Power Plant Work, House Wiring, Illumination, Armature Winding, Welding, etc.—but the many, many other ones, too. You don't have to stick to any one branch. You don't have to take the first job that comes along, whether you like it or not. **The whole wide field of Electricity is open to you.** You get practical training for dozens of interesting, well-paid branches. **You become the kind of man Electricity wants and needs today!**

Start Your Own Electrical Business if You Wish

IN ADDITION to the wonderful Job Opportunities, Electricity offers you the chance to **go into business for yourself and be your own boss.**

Many of my graduates are in the Electrical Contracting and Merchandising business for themselves, and are prosperous and independent. **Is there any reason why you cannot do the same?** You don't need a shop to start—you can work right from your home. And all the capital you'll need is a few dollars for supplies, PLUS your Coyne Training.

Whether you prefer a steady, well-paid job in Electricity, or a business of your own, Electricity is your one best bet!

Grasp this oportunity! Prepare now for a Real Job and a Real Future in the **World's Fastest Growing Industry!** Learn Electricity at **Coyne**—the school that has been successfully training men for 34 years—the school that will train **you** for a steady, Big Pay Electrical Job.

Ninety Days to Success

NINETY days of pleasant, interesting work in the great Coyne Shops is all it takes to prepare you for the big money-making field of Electricity.

You don't have to study from text books or correspondence lessons—Electrical employers are not looking for bookworms. They want **practical men,** trained on practical equipment. You don't have to go to school for six months or a year either. Just spend three months at Coyne, working on the huge array of electrical equipment here, and then **step right into electrical work!**

I don't care if you're 16 years old or 46; whether you're a high school graduate or never even finished grade school; whether you know absolutely nothing about Electricity or have been working at it for years—Coyne can help you!

The Electrical Industry is not so much interested in your age, education or experience, as it is in WHAT YOU KNOW and WHAT YOU CAN DO. These things we will teach you, in a thoroughly practical manner, in 90 days at Coyne.

So if you want a Big Job—a job leading to $50 OR MORE, a week, you can get ready for it quicker at Coyne than in any other way I know of. You can finish your Coyne Training and actually be doing electrical work in just 90 days from today—if you will only start NOW!

And Here's the Training... that will enable YOU to cash in on Electricity's Greatest Opportunities

NOW that I've told you about the wonderful jobs and money-making opportunities in Electricity, we're ready to discuss YOUR FUTURE. You will want to know how you, too, can grasp this big chance that Electricity offers you. So I'm going to tell you what Coyne Training is, and what it will do to help you succeed. But first, I'd like to have you read these letters from men who have taken my course. They will prove, beyond any question, that Coyne Graduates are able to get and HOLD good jobs in Electrical Work. They will prove that lack of education or experience is no handicap to success in this field. They will prove, also, that Electricity's greatest opportunities will be open to YOU, as a Coyne Trained Man. For these graduates were fellows just like yourself, when they started. **They stood just where you stand today.** They were ambitious—so are you! They were determined to get ahead —so, I know, are you! Read their statements and remember that the same **training,** the same **cooperation,** the same **service,** the same **results,** that made them successful, can be yours when you come to Coyne!

Makes Good as Chief Electrician

Mr. Lewis, I'll tell you how I came to be Chief Electrician and Master Mechanic of the —— Tank Co. I got a job as electrician here, over many applicants, by telling them I was a Coyne graduate. They gave me a tryout. I had a real chance to use my electrical knowledge on the welding machines, cranes and motors. I made good on every test and was promoted to Chief Electrician.

Later I was called to the office and given the position of Master Mechanic also, at a fine salary and bonus. I have held the job very successfully for two years now.—FLOYD TERREL, Alabama.

Canadian Graduate Wires Municipal Airport

I just finished with the electrical wiring and installation for the Municipal Airport at Edmonton. I had all the equipment in working order for New Year's Eve, and it flashed up like an ocean of light.

With two helpers I installed a 20 KW twin flood light, one 1-KW Beacon Light, one 1-KW Ceiling Projector, five 1-KW flood light projectors, 18 hangar flood lights, each 300 W, one cone indicator illuminated by 400 W, 50 Obstruction lights, 80 Boundary lights and also all the inside airdrome lighting and switchboard.

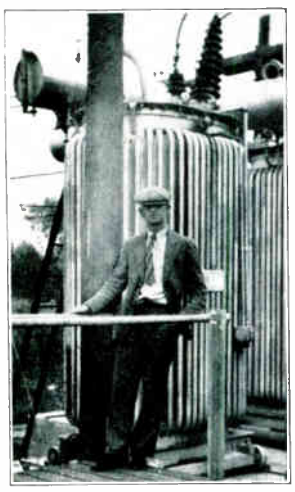
I have done quite a few other big jobs, and am recognized all over Canada as a first-class Electrician, thanks to my Coyne Training.

—Y. L. KUBICEK, Alberta.

Gets Three Promotions in 11 Months

I landed with this company right after leaving Coyne, have been working for them 11 months and in that time I have had three promotions to better jobs. I started out with the line gang and am now assistant to the construction superintendent.

We do all kinds of electrical line construction, substations, wiring oil refineries and gasoline plants, and installing oil-well drilling motors, so you see I have quite a large field of opportunity. I want to say that Coyne Training has helped me wonderfully.—GLENN T. RADCLIFF, Texas.



L. M. Good on the Job

Landed Power Plant Job Over 28 Applicants

I am now station operator for the —— Utilities Co. I'm certainly proud of my Coyne Training. Without it, I am afraid I would still be among the unemployed. When I applied for this job there were 28 other applicants ahead of me, but thanks to being a Coyne Graduate, I won out.—J. W. DIEHL, Illinois.

No Help Wanted—Coyne Student Hired

I went to the —— Boat Works about two weeks ago. They were not taking on any help. But I showed them my Coyne Credential Card that I received when I graduated, and they hired me right away.

I am wiring boats and instrument boards, at the highest wages I ever received. It's due to Coyne that I am now working.—BARNEY LASLEY, Michigan.

Lacked Education and Experience —Made Good in Electricity

I left the farm just a poor boy, with no advantages of education or experience. I came to Coyne and have been greatly benefited. During the depression, thousands of men, including my own brothers, who didn't have Coyne Training, were out of work. But I can thankfully say I haven't missed a day's work or pay. In fact, just last June, while men were being laid off, I received a pay increase of $43.00 per month.

—R. S. CAIN, South Carolina.

Has Held Good Job Ever Since Graduation

I've been employed by the —— Oil Burner Corporation ever since leaving Coyne. My chief job is motor inspector and installing lights and keeping all the electrical equipment in first class shape. I enjoy the work very much, and trace my success back to Coyne Training.

—ROY R. BURNETT, Illinois.

Sees Big Future in Power Work

In the past I have been a resident substation operator for the ——— Gas and Electric Co., but have been made relief operator for four substations. The Superintendent has promised me another promotion in 30 days, and has very interesting plans for my future. The longer I am in power plant work, the more I value Coyne.—L. M. GOOD, Kansas.

In Charge of South American Power Plant

If you come down to South America you could see your former student in charge of the power plant for a big mining company in Chile. 3000 volts — 4000 k.w.h., running all the mining machinery, which was erected by me. I had no trouble in getting this job, and my salary is good.

Yo deseo mucha prosperidad a nuestro colejio—that's Spanish for "Lots of luck to our school!"

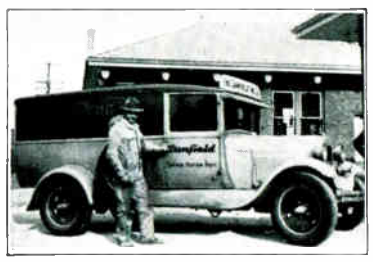
—G. N. SMITH, Chile, South America.

20 Year Old Coyne Graduate Has Interesting Signal Job

I am working for the —— —— Railroad as a Signal Man on the New Mexico division. We are installing about 100 miles of signals out of El Paso. I average about $175.00 per month, that is more than most boys of 20 get. Coyne has been the stepping stone to my present job, and to better jobs in the future.

—CARMON T. SIMS, Texas.

Electrical Maintenance Man Receives Two Raises During Depression



I have had cause to be thankful for Coyne Training. I have been able through this depression not only to hold my own, but have gained a better place with the —— Oil Co. I've received two raises in pay and am still expecting to climb.

As you see by the picture, I am a maintenance man on the various stations all over the city, with many electric motors in my care, and we are adding new electrical equipment all the time.—LESTER S. ALT, Ohio.

Lands Job Though Other Men are Being Laid Off

I was home after graduating from Coyne just 10 days, when I got a job with the —— —— Company. They didn't need any men, in fact 5 were laid off recently, but they gave me an examination and told me I could come to work any time. There is only one answer to that—Coyne Training.

I also make $12.00 to $18.00 a week in spare time, on ignition, motor and generator work, also small jobs of wiring and lighting.

I could write on for an hour telling how happy I am that I have Coyne Training.

—R. E. BRINEY, Michigan.

Enjoys Power Plant Job

I have a job with the —— —— Co. and working every day despite labor conditions. I am an Assistant Substation Operator and do not hesitate to say that I got my start in the Electrical game at Coyne. Coyne Training enabled me to secure the position.

I sincerely recommend Coyne to any ambitious man desiring a practical knowledge of Electricity and I know, from my own experience, that he will be successful if he is made of the right stuff. —W. F. NASH, Illinois.

COYNE

The Gateway to Opportunity

ENDORSED BY MANY ELECTRICAL FIRMS—BOOSTED BY GRADUATES

Coyne Has Stood Every Test for 34 Years!

THIRTY-FOUR years is a long time. No business could hope to continue this long if it was not serving, and producing results. **Coyne has not only continued in business 34 years** but every year has shown **a substantial growth over the year previous.** Only one thing has made this possible — **the success of our graduates.** The boosting and recommendation of Coyne graduates sends **hundreds of students to this school every year.**

Why Coyne is Approved by Many in the Electrical Industry

NOT only is Coyne praised and recommended by its graduates—but it also enjoys the hearty endorsement of many leading firms in the Electrical Industry.

Coyne has grown great as the Industry has grown great. Back in 1899, only a handful of students were being trained; today, thousands of Coyne Graduates—in every state of the Union, in Canada, South America, all over the world—are filling responsible, well-paid positions because of this training. As new inventions and new methods have been introduced into the Electrical Industry, Coyne has included them in its course. As new branches and new opportunities have opened up, Coyne has trained its students to fill them.

I want to take this opportunity of thanking you for the courtesy extended me in my recent visit to COYNE Electrical School. To say that I was amazed at the unusual activities I witnessed, is putting it very mildly indeed.

Having been associated with the Thomas A. Edison Laboratories for the past twenty years, it really gave me a great deal of pleasure to witness the various activities of your school and I really wish that Mr. Edison himself, could have been a witness to this educational industry that the COYNE Electrical School is promoting.

I also wish that every boy in the United States who has any tendency toward an electrical education could have the opportunity of receiving that education in such a marvelous and systematic organization as the COYNE Electrical School affords.

Again thanking you for your kindness and wishing you and your school all success!

James Carson

Edison Distributing Corporation.

The progress of Coyne has been watched with the keenest interest by the leaders of the Electrical Industry. Many great Electrical concerns not only urge their employees to come to Coyne, but **actually pay all or part of the tuition for those who attend.**

It is only natural, therefore, that Coyne should have the confidence and goodwill of many of the oldest and biggest firms in the Industry. In fact, Coyne methods of training really sprang from the Electrical Industry itself. Just as many Electrical concerns gladly employ Coyne men, so have they helped me in many ways to make my training the best. Engineers have visited my shops, offered their ideas and suggestions, and have, in turn, opened the doors of their great plants for the famous inspection trips of my students.

The place to learn Electricity is at Coyne in Chicago. Here you have the happy combination of the world's largest and most successful practical Electrical school, located in the World's Greatest Electrical Center. This gives you special advantages that could not be had anywhere else on earth.

You Don't Need Advanced Education or Electrical Experience Here

MY METHOD of instruction is so simple and thorough that you don't need a high school education to complete my course. Many of my most successful graduates never even complete **the eighth grade in school.** Nor do you need previous electrical experience. By far the most of my students never had a bit of experience before coming to **Coyne.**

Now that's just what the great shops of **Coyne** are here for, **to give you experience.**

You'll get it, on actual electrical machinery in full operation. The very same kind of machinery you'll get **paid** for working on after you graduate.

How Can We Train You in 12 Weeks?

I AM often asked this question. I could answer it this way: the fact that we have been doing it for 34 years, and my graduates have made good in the field, should prove it. But I'm going even further and explain just why it is possible. First let me say we don't require that you study it out of books. Nor do we give you a lot of useless theory that you will probably never use. There is no lost motion. You work strictly as an individual. We don't repeat what you learn; when you learn one thing you go ahead to the next thing, starting in with the most simple jobs and gradually working into the advanced work, step by step. And during your stay here you are trained on one subject, **Electricity,** and you are **trained thoroughly in every branch of this subject.**

I have had a close personal knowledge of the great work being done by the COYNE Electrical School, as I have employed many of its graduates and have tested the value of their COYNE Training in every conceivable way.

I have been especially impressed with their thorough knowledge of all kinds of modern Electrical machinery and equipment. Even though they have had no electrical experience before going to COYNE, I find they are ready for actual electrical work as soon as they graduate. This, of course, is mainly due to the fact that at COYNE they are trained on the very same kind of Electrical equipment that we have in the field.

If you are interested in Electricity, you will make no mistake by going to COYNE. The very fact that this School is 34 years old is the best proof of the long tested value of its training.

H. A. Duncan Vice Pres.

ILLINOIS ELECTRIC CO.,
Division of Westinghouse Electric Supply Co.

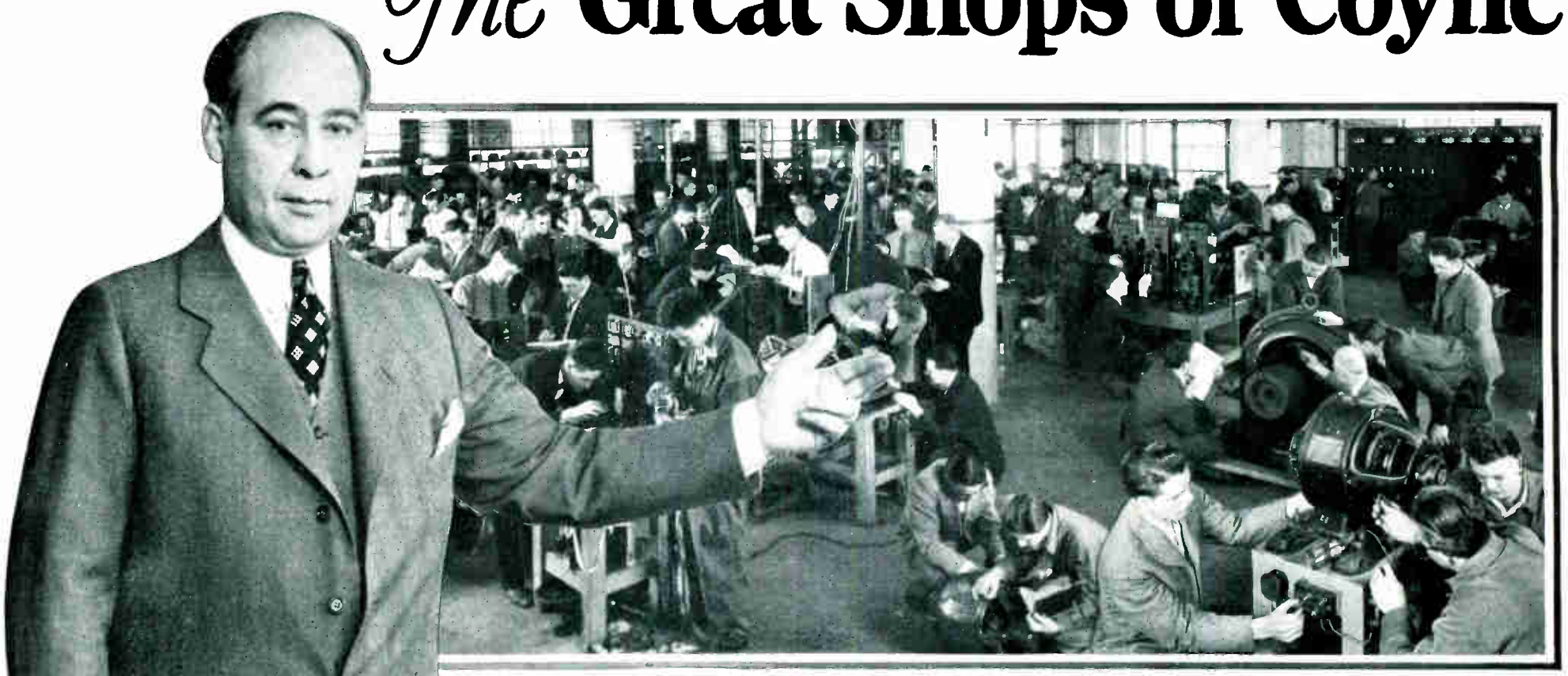
If You Need Part Time Work We Will Help You Get It

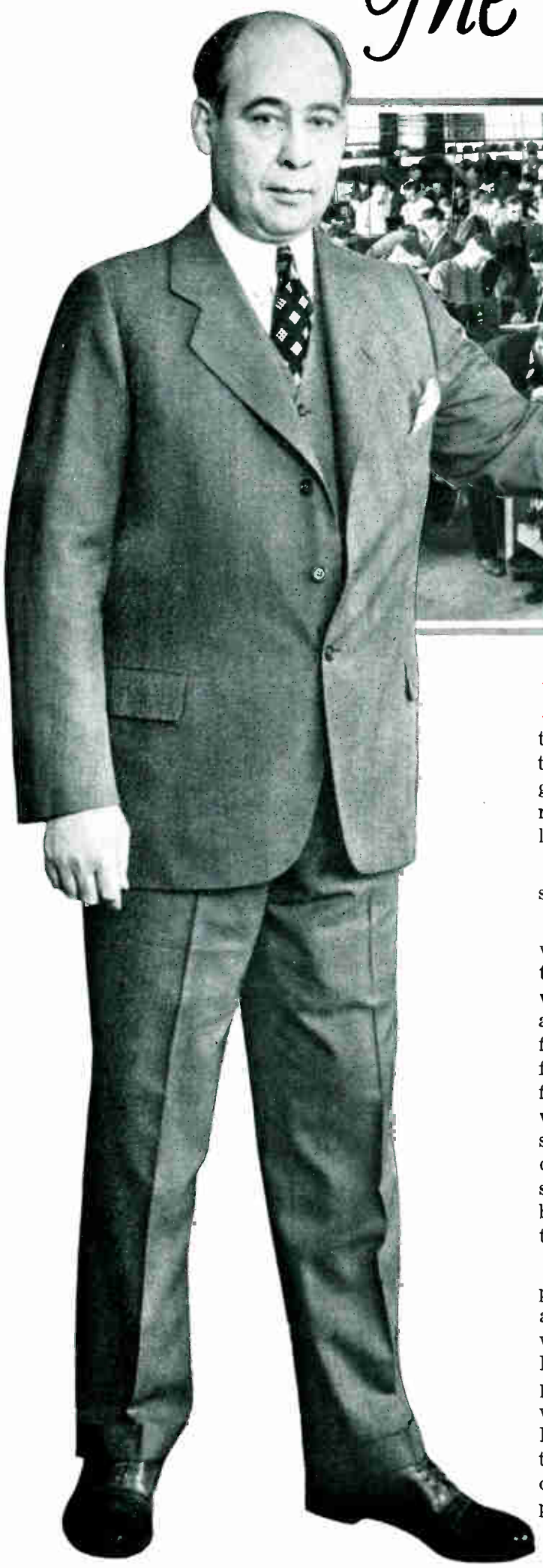
MANY of my students could never have taken this training without some help. If you are a little short of finances, my employment department will give you every cooperation in locating a part-time job. Some of the boys work in express offices, hotels, railway terminals, etc., for a few hours after school and make a nice sum to help defray expenses. If you will need part time work write me and tell me your financial condition so I can better help you.

Nothing is left undone to place a fellow in a job while attending school, if he wants it, and the same thing applies after he graduates. I will tell you all about Coyne Employment Service later in this book. This will answer your questions as to the **results** you will get from **Coyne** Training.

But first, I want you to turn the page and go with me through the world-famous Shops of **Coyne!**

Come With Me Into The **Great Shops of Coyne**





So Now *You* and *I* Will Go Through *The* Shops Together

I WANT you to imagine you are right at my side and that I'm talking to you just as though we were both right here at **Coyne.** In talking to you through the following pages I'm going to talk just as if I met you right here in my school, for I know it isn't going to be very long before you are here in person.

I'm now going to take you through my shops step by step:

I want to ask you to go through this book with me very carefully and thoroughly. **Read the pages before each department so that you will understand what each picture means.** I am going to tell you about each department first, then I'm going to show you some pictures from that department. Every picture is a bona-fide photograph taken right here in my school **while the students were working** and doing the same work that you as a student of **Coyne** will do when you get here. **So once again let me say, don't skip** through this book, take it page by page as it's written. Then you will get the true story of **Coyne.**

I'm going to show you through every department and while, of course, I can't illustrate all of the equipment and machinery you will work on when you come to take your course, I am going to show you a lot of it in each department. To describe everything at **Coyne** would take a book much larger than this one. I am sure, however, when you have been through this book with me you will agree on one thing. **Coyne** offers you the greatest opportunity you have ever had offered you. I know long before you have been through this book, you will admit that **Coyne** offers you something that cannot possibly be obtained by any other method of training.

You Advance Step by Step

WHEN you start at **Coyne** you start in just as though you knew nothing about electricity. If you have had experience then you are not required to do the jobs you know if you can pass the examinations. But when you come to **Coyne** we assume you have had no previous electrical experience so we put you right into the elementary room doing the most simple work. There are so many jobs in each department. You start in, for instance, on job number one; when that is done satisfactorily and the instructor has passed your work then you move onto job number two, etc.; when you have completed every job in this department then if you have proven you can do them satisfactorily and understand how each one is done, you are passed to the next department where you have so many more jobs. Of course, each department you enter the work is more advanced. But, you've been advancing step by step and without realizing it you are getting into advanced branches of electricity. It has all been so gradual that instead of being hard it has **been so easy it was a pleasure.** You find yourself so interested, so fascinated with the progress you make and the simple way in which you do it that almost before you realize it, you will be trained and qualified for practical work.

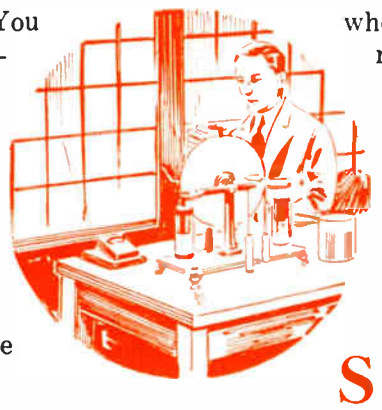
Now Let's Go Through the Shops

I'VE told you these things because I wanted you to be familiar with them before we started our trip through the shops. Now as we go through I want you to pay particular attention to how my students are getting their training. As you go through these different departments I'm sure you can't help but agree with me when I say: **There is only one way to learn electricity and that's as it's taught at Coyne.** Now the first department I will take you through will be the elementary department, so before you look at the pictures of this department read the next page carefully so you will understand just what I'm going to show you.

Elementary and Circuit Department
Here's Where You Start Your Electrical Career

THE first thing that impresses you as we enter this department is the light, airy room. It's just flooded with daylight and fresh air, which is the ideal working condition.

Now in this department we give you in a simple, clear, practical way an understanding of important Electrical Laws and Principles. Just enough fundamental theory to enable you to understand the PRACTICAL WORK you do later on the machines. You learn at the beginning that Electricity, even though an unseen force of nature, can be measured and handled with meters and other devices, just as easily as water, steam or other forces. The nature and uses of Electricity are very simply and easily made clear to you by the practical methods and equipment we use here at Coyne.



I Don't Use Books to Train You

AT Coyne we don't ask you to study dry text books to learn Electricity. Instead the important practical facts are explained to you in INTERESTING TALKS by the instructors, using SIMPLE LANGUAGE and plenty of BLACKBOARD ILLUSTRATIONS to make them clear. Then these points are demonstrated and proven to you on ACTUAL EQUIPMENT.

Just imagine how much EASIER, QUICKER and MORE INTERESTING it is to learn Electricity in this manner. You will find Electricity so interesting when taught in this way that you will eagerly follow every word and move of the instructor as he carefully and thoroughly explains each fascinating point to you. You will get a real thrill, hour by hour, as you so easily learn the important things about electricity which you MUST KNOW to be a THOROUGHLY TRAINED PRACTICAL ELECTRICAL MAN.

You will be surprised at how easily you remember things learned in this way. Then by working them out yourself on the ACTUAL EQUIPMENT you get them fixed in your mind to stay.

You are also shown how to take brief practical notes and diagrams from the lectures and shop jobs, so you will have these in your own note book FOR FUTURE REFERENCE on the job at any time.

Practical Shop Work Is the Secret of Your Success

AFTER each talk and explanation of important Electrical principles by your instructor, you go to a bench with a number of interesting electrical devices on it and work out practical jobs to prove each point. Your instructor shows you just how to proceed in wiring up these interesting jobs from your own notes and diagrams, and is always ready to help you whenever you need it. You work with batteries, magnets, relays, bells, buzzers, meters, annunciators, motors, lamps, phones, tubes, etc. You find each job so interesting you can hardly wait to finish one to start the next.

This practical work is what you need to become thoroughly trained and capable of handling real important jobs in the field after you graduate. Employers in the Electrical Industry want men who not only know the principles of electricity, but also how to APPLY THEM TO ACTUAL EQUIPMENT. They don't want men who have to be told how to do each step of the job. They are looking for men who know how to figure out what needs to be done, and who have the practical training and ability to go ahead and do it. That is why a number of Electrical firms send their men to us for training, and why many others prefer COYNE SHOP-TRAINED MEN in their plants.

You "Learn By Doing"

SO many ambitious fellows make the mistake of trying to learn Electricity from books or printed lessons, or by apprenticeship and just picking it up on the job. They plug along for years on the small jobs and at low wages. They learn a few things, of course, but never really learn how or why certain electrical machines operate, or how to fix them quickly when they fail to operate.

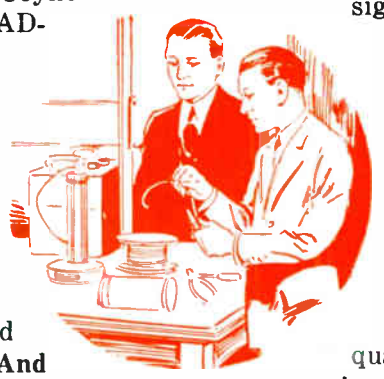
But here at Coyne you actually LEARN BY DOING practical jobs under the guidance of widely experienced instructors, who know just how to explain the important principles and methods to you. And we have provided hundreds of different electrical machines and devices for you to connect up, test, operate, shoot trouble on and repair.

This vast outlay of practical training equipment along with our 34 years of experience and the modern system of instruction we have developed, is what makes the Coyne LEARN BY DOING method the most efficient. And your own common sense will tell you that this practical training will prepare you for the REAL JOBS in Electricity, and make you of much greater value to employers than any one could ever be with just a little book study or "picked up" knowledge. That is why many men after wasting a lot of time and money in book study or apprenticeship and finding out that it doesn't get them very far, have come to Coyne and prepared for bigger and STEADIER JOBS and BETTER PAY.

No Classes at Coyne

WHAT I mean by this is that you don't have to move along with any class. You can go as fast or as slow with your work as you are able or desire to. No student is held back by others nor is anyone pushed ahead to keep up with others. **And you do not have to recite before any classes.** Here at COYNE you get INDIVIDUAL INSTRUCTION on your problems and take them up with your instructors personally, and get SINCERE PERSONAL ASSISTANCE whenever you need it.

We also use visual instruction, pictures, blackboard illustrations and even motion pictures, along with your actual work on machinery to enable you to learn easier and faster. We make every effort to duplicate the actual work you will have to do when you go out on the job. Many students have told me that when they left Coyne and went to work it was just about like stepping from one job into another, because the work they had in school was so much like that out on their job.



You Advance Rapidly, Step by Step

WITH the modern practical system we have developed here at Coyne you are continually learning something new and interesting about Electricity, and you advance so rapidly that almost before you realize it you are wiring and operating rather complicated equipment.

You start out with the very simplest principles and jobs, and then advance step by step, each job preparing you nicely for the next, and at the same time teaching you something IMPORTANT TO YOUR FUTURE SUCCESS in the field.

Each principle and job is thoroughly explained by your instructor, then you make a few notes or a sketch of the important parts to remember, and next you work it out right on the practical equipment. Isn't this by FAR THE BEST WAY to learn practical Electricity and train for the REAL JOBS AND SALARIES?

Alarm and Signal Work

IN this Elementary and Circuit Section you wire up, test and operate a number of very practical door bell, office call, signal, burglar and fire alarm, and telephone systems. This line of work is a profession in itself, and keeps many thousands of signal men employed in big factories, offices, stores, on railroads, ships, and with telephone and telegraph companies.

You may use a lot of this knowledge on your first job after graduation, or frequently on profitable jobs on the side, or in business for yourself. You also learn to read blue prints and diagrams, and to wire electrical systems from definite plans, and how to test and shoot trouble in a definite systematic manner, that will make you much more valuable to your employer.

Laying Your Foundation

THIS interesting work in the Elementary and Circuit Department not only prepares you for a good job in one of the branches of signal work, but it also lays a very important foundation for all your training in the later departments and for your work with larger machines both in school and on the job. Your knowledge of circuit tracing and testing will be a great help to you in wiring up your power jobs and larger machines in later departments, and is one of the most important qualifications of the good electrical wireman or maintenance man.

Many of the simple rules or methods you learn in this department will help you easily solve the most complicated problems on your job after graduation.

That is why I have gone to so much trouble and expense in making this work so interesting, and in getting such complete equipment for you to work on.

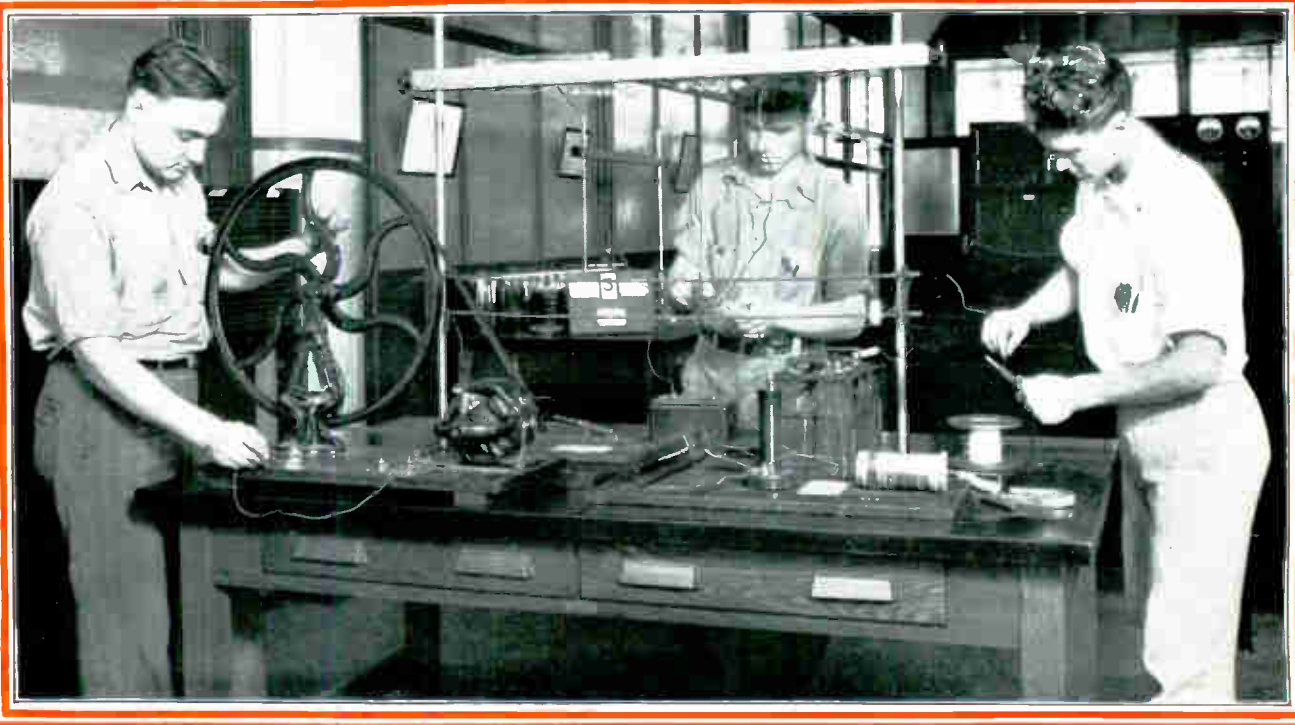
Now examine the actual photographs on the following pages and see the students busily working on these fascinating jobs and devices.

Now I Want You to See This First Department

This first picture shows a few of my students, actually proving with the aid of instructors the ELECTRICAL PRINCIPLES on meters, generators, magnets, batteries and spark coils, all of which is necessary for the foundation of your more advanced work later on in the course.

Here's a practical DEMONSTRATION OF THEORY. Instructor explaining dynamo which he has drawn on blackboard, with parts of machine before him. Each part is explained, drawn out and made very simple, with the actual parts of the machine, far better than trying to LEARN by just books or printed lessons.

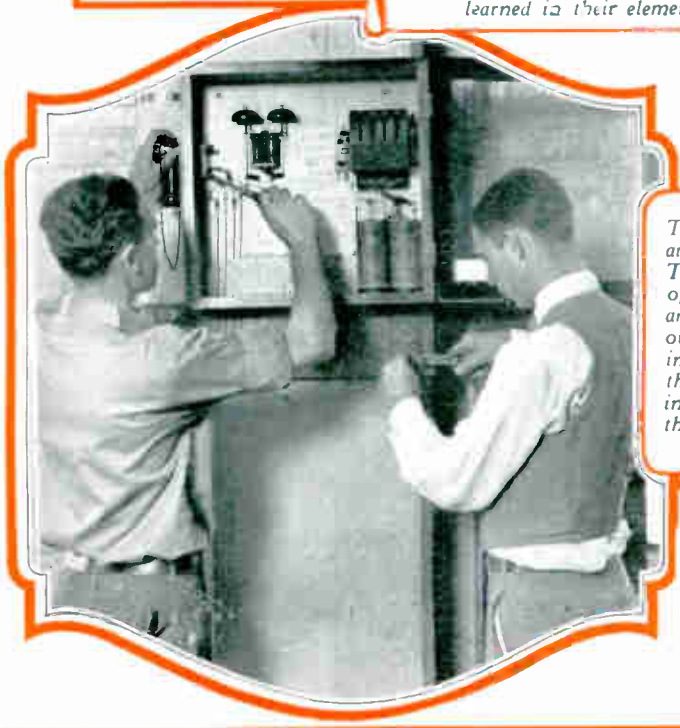
This picture shows the instructor explaining how the current flows through different resistance coils. Then he shows how this is proved out by the meters which you see on the top of the board.



The students shown in this picture are winding electro magnets, testing different kinds of insulation and actually connecting and running a small generator. They make these practical tests themselves and UNDERSTAND WHY THEY DO IT.

-You Start Right In Doing Practical Work!

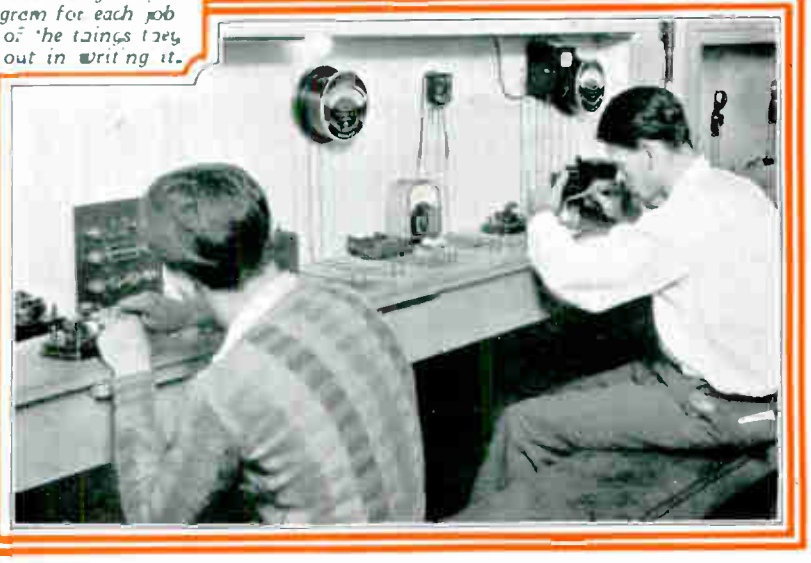
Here is a general view of part of my circuit equipment. You see the fellows wiring up and testing interesting burglar alarm, door bell and signal systems. On this work is where they commence to put the current to work, and apply many of the things learned in their elementary instruction.



These men on the left are wiring a telephone. They learn the use and operation of every part, and then actually talk over it to other phones in the department when they get it wired. Proving out their work in this way gives them confidence.

The fellows above are getting real experience on circuit tracing and testing on advanced alarm and signal systems. And they keep a copy of the diagram for each job and their notes of the things they test and prove out in wiring it.

And here you see them overhauling a telephone, and testing various phone parts, such as magnetos, bells, receivers and transmitters. This practical work makes it easy to understand telephones and fits them for the real jobs later on.



Wiring and testing special equipment for proving Ohms law and effects of electricity with meters and instruments. These students you see are experimenting with spark coils, neon tubes, transformers and carbon arcs.

Construction Work is a Big Pay Field

I'll Now Tell You About This Department!

HERE you get into bigger work, and start to do wiring for light and power systems.

This is a very important branch of electrical work and offers splendid opportunities to our graduates, in wiring houses and factories, for lights and motors.

The trained man can make very good money working for contractors, or to the fellow who wants to go in business for himself, it offers wonderful opportunities to START A NICE BUSINESS with very little money necessary to get started.

In any community where there is electric power there are houses, farms, factories or other places to be wired up for lights and power. Many of our graduates have gone right into business when they left my school and have worked up a wonderful business right in their own communities.

The Instructor Works With You

REMEMBER the instructor is always near to help you and show you the best methods, from long years of experience. In this way efficient teaching and kindly advice save you the years of stumbling along and "picking it up" a little at a time by the old apprenticeship method.

Now in this department you start off with the simplest work first and make your first splices.

The instructor shows you how to properly strip wires and how to make the common and best splices. He shows you how to make them **correctly** and to avoid the common mistakes.

Then after he has shown you how, you make a number of splices yourself and have the instructor inspect them.

When you can make them all O. K. he shows you how to solder them.

You next go to a bench where you wire up several different systems of switches and lights.

You learn the purpose of conduit (the pipe used to run wires thru) and the use of various fittings, and what the different kinds of switches are for.

When you have connected all your wires and taped your splices the instructor inspects the job and shows you how to test it out with the current, to prove that all joints and connections are O. K. and that the lights work as they should.

Coyne Training Thorough and Practical

AND now, you advance to the house wiring section, where we have built up a complete system of skeleton houses, for you to actually wire up the same as you would out on the job.

Here you pull wires in longer runs of conduit and learn BX (or armored cable) and knob and tube work, and all the common types of wiring. You install a complete system of lights and switches and convenience outlets.

You learn the most up-to-date methods and materials. And you do the work according to the national code or the rules by which practically all wiring must be done nowadays to pass the inspector and to make a safe and dependable job.

And while you are doing this you have at all times the help and advice of your instructors, so you can handle the really big jobs right, when you get out in the field.

Now when you have this job all wired, you learn how to test it, to prove that there are no short circuits, open circuits or "grounds" at any of the splices or connections.

Now You Can Turn On The "Juice"

AND now you are ready to connect the lamps and switches and then turn on the "juice," and what a thrill, when you see your own first wiring job in operation, and the lights all respond to your touch on the switches. Then is when you will say you're glad you chose the **Coyne** method of practical training.

We give you special practice in bending, threading and cutting conduit, and the use of the proper tools, and fittings for this kind of work.

And then you go to a special motor wiring job and get your first power wiring. Here you wire up motors, and starters, with conduit systems, and when you get the wires all in and tested you turn on the current, and watch the motors run.

Imagine hearing the smooth hum of the motors, running on "juice" that comes thru the wires you installed yourself.

Illumination---A Fascinating and Good Paying Field

WITH the tremendous increase and improvement in lighting systems everywhere today, and the demand for the most complete and efficient lighting in all new buildings, and the remodeling of thousands of old inefficient systems, this branch is calling for thousands of well trained men at good pay and the finest kind of work.

I teach you the simple facts about the nature of light and principles of illumination, the types of lamps and fixtures to use for various jobs and how to determine the size and number of them, and the amount of light required for various classes of work. Also how to lay out lighting systems.

And you wire up and operate sign flashers, and learn flood lighting, and advertising illumination. Also types of lights used for movie-studios, and airplane landing field lighting. All of these are very active fields and employ thousands of electrical experts.

Demand For Trained Men In Range Work

ELECTRICITY is coming into more and more use for home cooking. There are a million electric ranges in this country today, and the industry is now putting on a big campaign to sell "the second million" in the next three years. These ranges require trained men for installation and servicing. An understanding of this work will prove mighty useful to any man wishing to specialize in electrical repairing or intending to start a business of his own.

Many of my graduates are also making good money running a very profitable business of their own, just specializing in illumination, wiring, or range work.

But others in smaller towns must handle several branches to make a good business, or hold the best jobs.

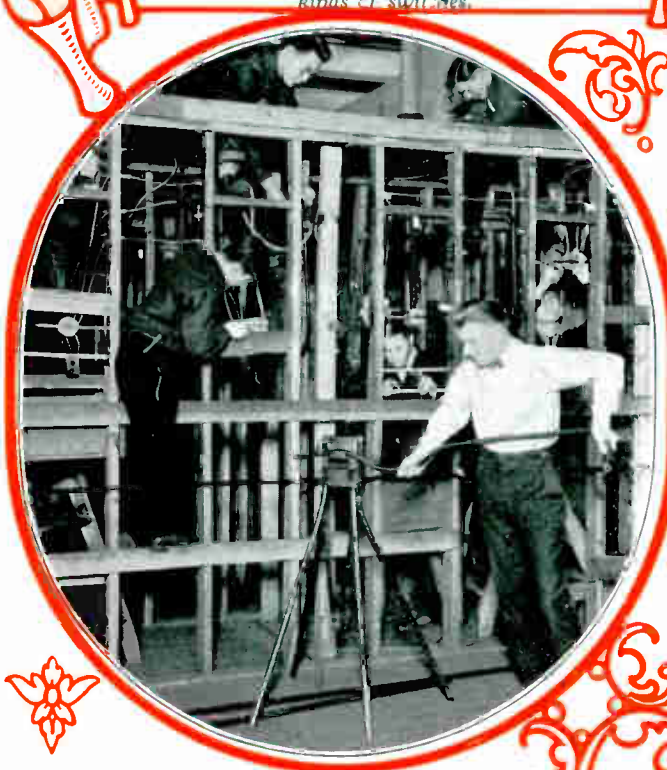
So right here I want to make a point, and make it strong. While there are many branches of work covered in my complete course, that graduates can profitably specialize in, if they are thoroughly trained in all branches. Yet in many other cases, in order to get in on the biggest jobs they must be able to handle or take charge of several branches. That is why I insist on giving every one of my students a thorough course, and complete practical training in every department.

Now that I've told you about my Construction Department I want you to see it on the next three pages of this book.

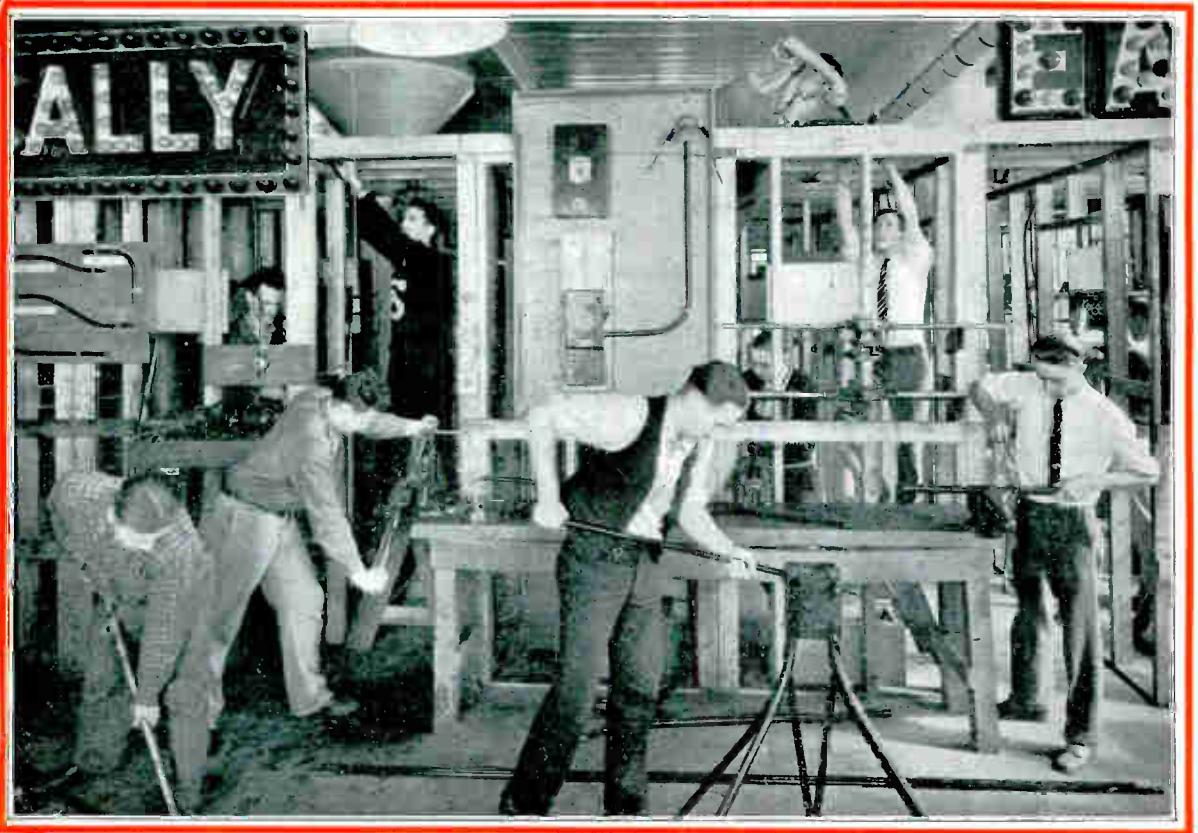
On This Page and the Next Two I'll Show You *My* CONSTRUCTION DEPARTMENT

This work offers you big pay and the chance to go into business for yourself with very little money invested and the opportunity to be independent.

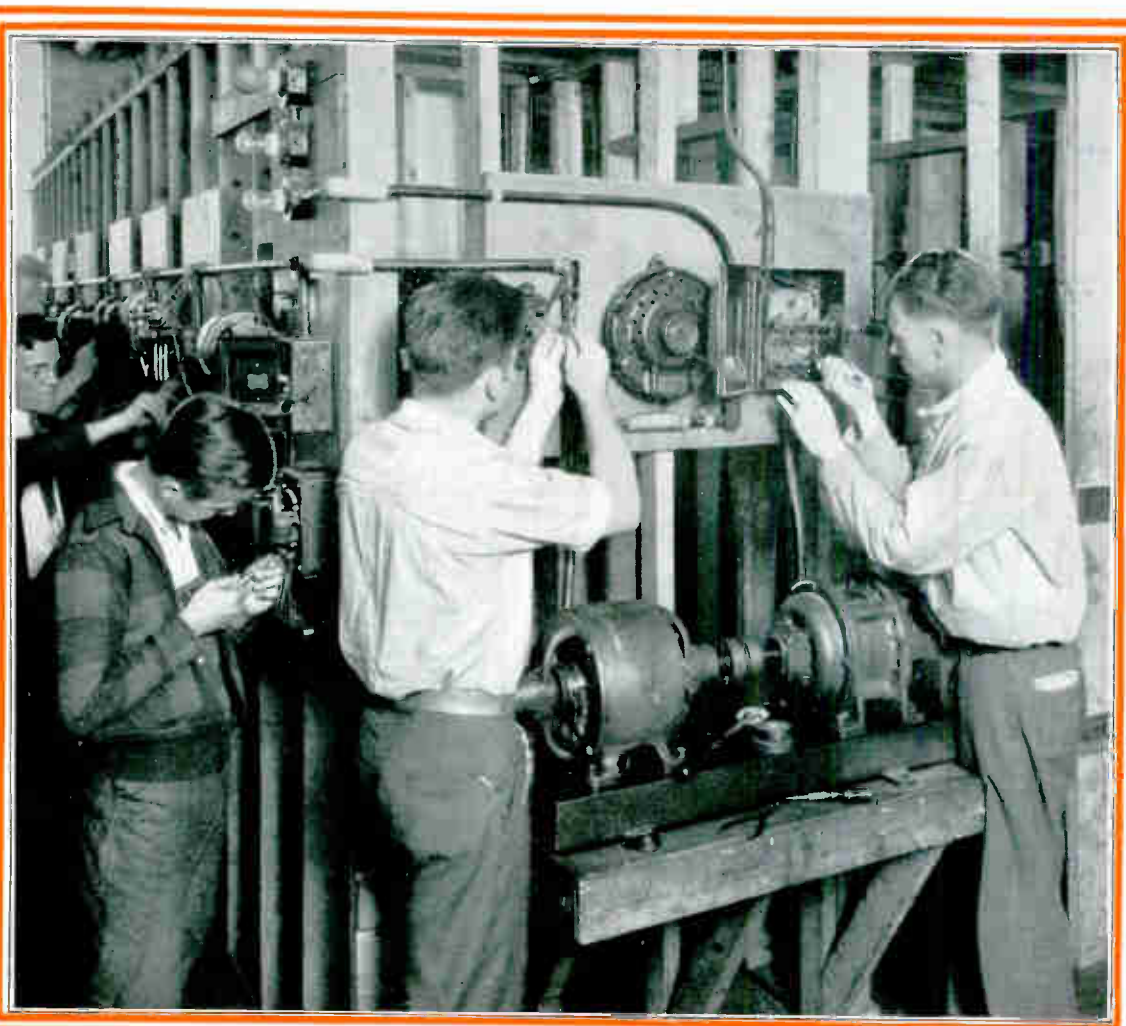
Here you see a general view of a section of my construction or wiring department. Notice the large and well lighted shop. The men in this picture are wiring and testing light control circuits in their first small conduit layout, and getting real work with the tools and different kinds of switches.



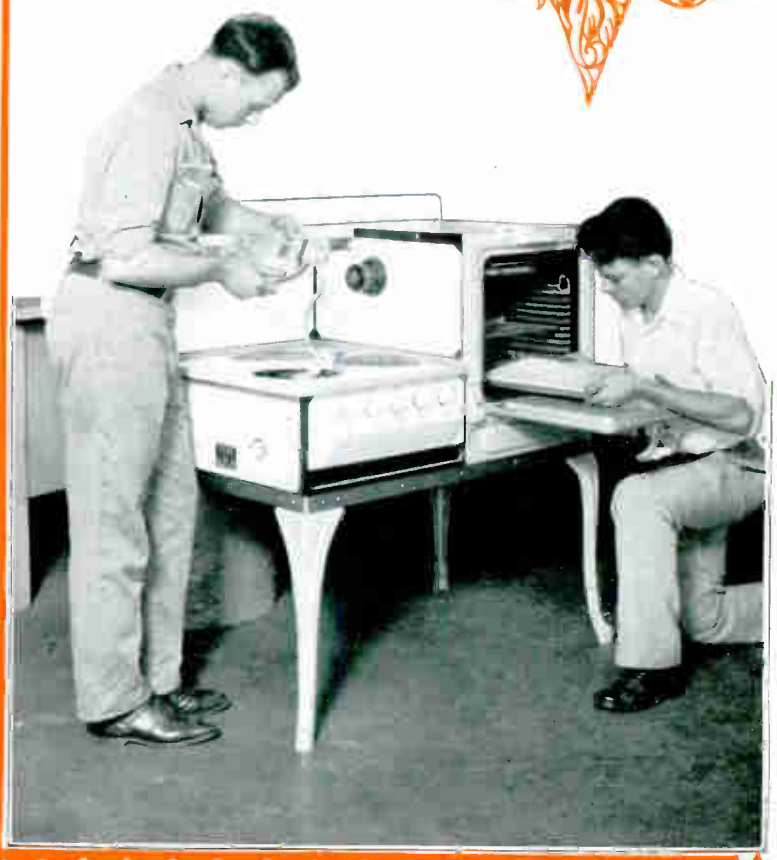
These fellows are putting in wiring in conduit, BX, and knob and tube, in the actual house frames, and learning to wire lights and switches the same as they will out on the job.



And this is how you learn to handle conduit. Most of the new and modern wiring for light and power is run in these pipes called conduit. And a practical man working in this line, must know how to bend, cut and thread this conduit. These men are getting actual work with the threading dies, bending "hickeys," and in cutting pipe.



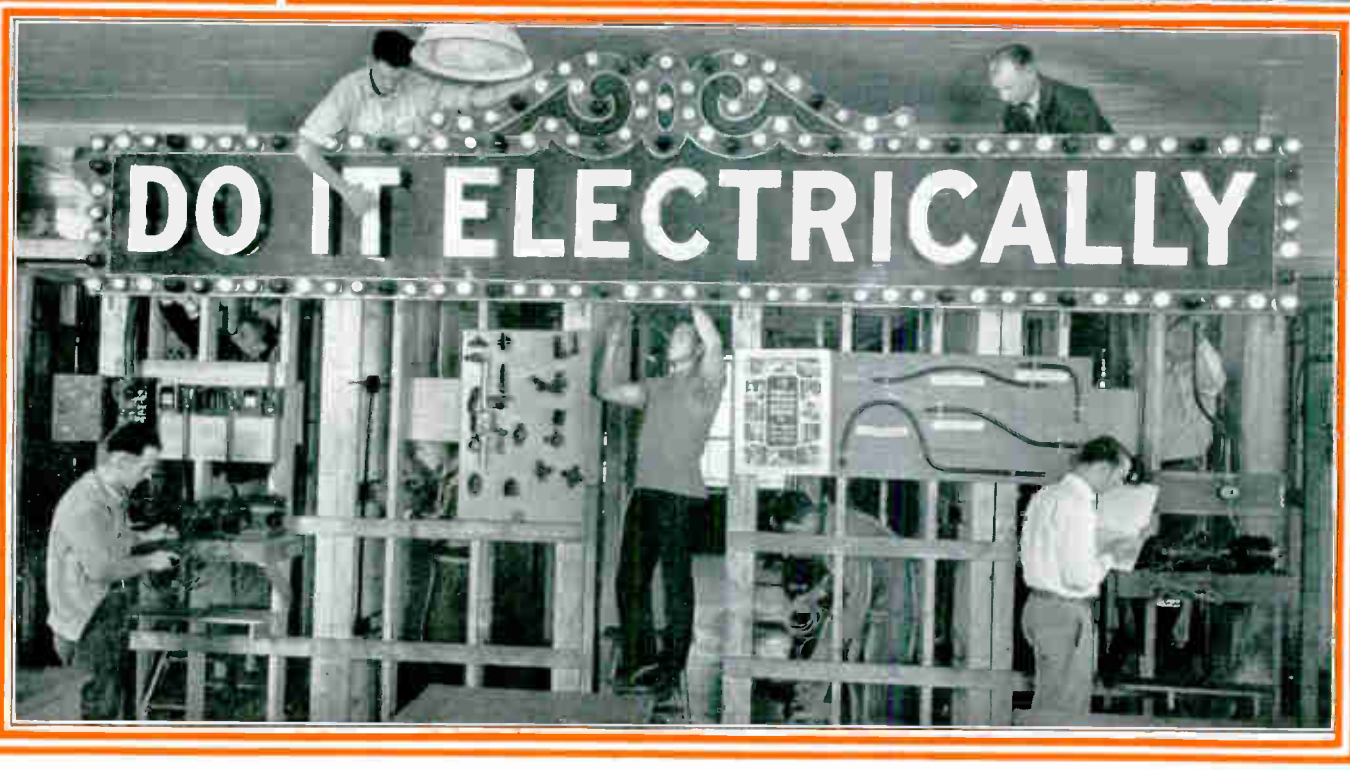
Here are some of the motors the fellows wire and test in this department. This actual work teaches them how motors and starters must be wired according to the code, and how to test to locate troubles in the wiring, which might cause motors to fail to operate. And it gives them still more practice in the use of tools. Don't you agree that to "Learn by Doing" is certainly best?



My shops are kept up-to-date. Here is an electric range, with automatic temperature control equipment. These fellows are learning how it is constructed, and wired, and where to look for any troubles that might develop in such equipment. In many localities where hydro power makes electricity lower in cost, these electric ranges are being sold and installed by the thousands, creating good jobs for trained men to wire and repair them.

Handling Big Flood-Lighting Job

I AM working now on a big flood-lighting job, which will cost $14,000 for equipment alone. It will last about 3 months. The building is 15 stories. Then we have a 7 story packing house to wire. One other fellow and I installed all the power work, a switchboard and small substation. I am making real progress, thanks to the training received at Coyne.—OTTO SCHIKOWSKI, Illinois.



This is your first job in this department. After the instructor shows you how to strip the wires and make the common splices, you make them yourself and solder them. Then he inspects them.

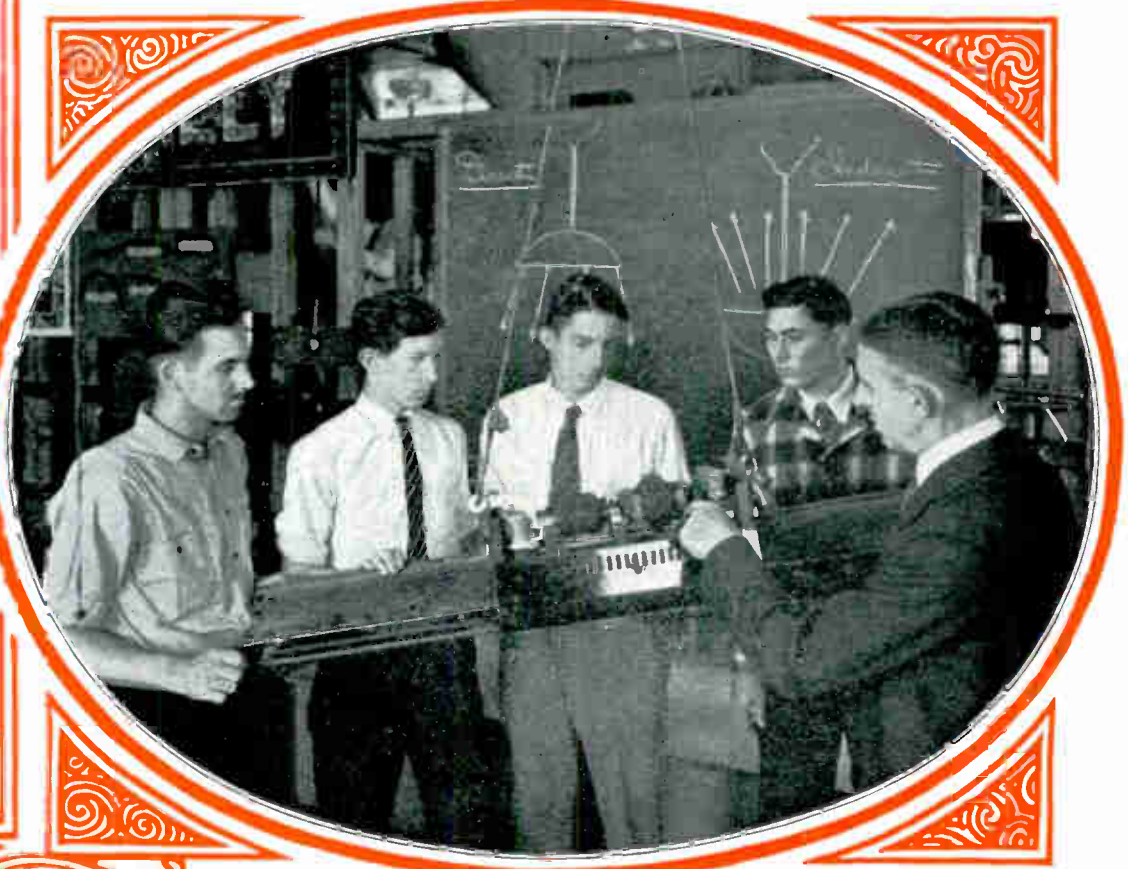
At the left is one of the big modern electric signs which you will learn to test and operate. These men are wiring up the motor driven flasher control, and testing the circuits and wiring on the sign.

Street-Lighting Job Pays Well

I AM doing fine and working every day. I am in the construction crew, installing the latest type of street-lighting system. We work on the rural lines as well as in the towns. The work is interesting and well paid. — ERNEST ESCOTT, Idaho.

Here you see part of the illumination section, and some of the different kinds of light fixtures you work with. The instructor in the right foreground is showing students how to test the amount of light from each fixture with a "foot candle meter." You learn which type of fixture is best for home, office, or factory use.

These men are making practical tests on various lighting fixtures with foot-candle meters and photometers. Their instructor is giving them a personal explanation of one of the very latest type photo-cell photometers. This kind of practical training on up-to-the-minute equipment is what enables our graduates to qualify for good paying jobs in illumination work.



Special instruction on the mercury vapor lamp, and the operation and care of these interesting units. Thousands of these lights are in use now, and thousands more installed yearly in the big industrial plants. And the maintenance electrician who can install and repair them can qualify for the better jobs.

Right Here I'll Tell You About Armatures

The Heart of Motors and Generators

Why I Want My Students to Have Complete Armature Training

IN this department you get thorough and practical training in winding, testing and repairing armatures and stators, both small ones and those of large power motors and generators of many horsepower.

The armature can be called the heart of Direct Current motors and generators. And all power motors and generators, whether D. C. or Alternating Current, have either armatures or stators to be wound.

Steady Jobs at Good Pay in Armature Work

THINK of the hundreds of thousands of motors of all sizes in our great factories and industrial plants all over the world today. The man who can quickly find and repair the troubles in these motors, and keep the wheels turning, can be sure of a good paying and steady job in almost any section of the country.

Power plants with their generators and motors, street railways and electrified steam railways with their big motors, hotels, and office buildings with elevator motors, and now many electrified ships, are all creating a great demand for skilled armature winders at interesting steady jobs and good pay.

Easy to Understand—Personal Instruction

IN this department, your instructor first explains an armature to you in simple shop language. He shows you an armature core and shaft, and explains how the core is made.

He explains the purpose of the slots and coils, and shows you how a completed armature creates magnetism around its surface when current is applied, and how this magnetism makes a motor armature turn. Also how the coils generate voltage in a dynamo.

So you see, in this department you are learning a lot about the operation of motors and generators. And right here you begin to see the need and use of many of those important laws and rules of electricity that you learned in the Elementary Department. All of our departments work together to make your whole course easy and complete, and just a gradual step by step advancement, until you are right on power machinery almost before you know it.

And you will be surprised how simple and easy e en the advanced work is, with the methods we use, and with the personal help and explanations of your instructors.

Actual Work on Wire Windings

AFTER the instructor has explained the armature, he shows you how to make your first wire wound coils. Then how to put them in. Then he lets you go ahead and put in the rest and complete the windings with your own hands, but always with his ready help and advice any time you need it. All of your windings are done with real copper wire on actual armatures.

Operate the Armatures You Wind

WHEN you have the coils all in he shows you how to test each one to prove that there are no faults in them. And then you connect up the coil ends to the commutator (the commutator is the group of copper bars on which the brushes run). Then you learn how to make a sketch or winding diagram, to make your connections from, so you will be able to do winding from the plans used out on the job.

Then after you solder the connections and the commutator is trimmed, you test the whole winding out finally on a special machine for this purpose and with meters, to be sure there are no "grounds," "shorts" or "open circuits" in it. **Then what?** Why, you put it in a motor frame and actually run it. **What a "thrill"** you get out of it. When you see the armature you wound with your own hands spin merrily in the motor, you just feel that you can wind any armature then.

Once more you will say, how much better this kind of training is than the theory you would get in just printed lessons or books.

Now You Wind Large Armatures and Stators

WHEN you have finished your windings on small armatures and stators, you are ready to go to the large windings.

Your instructor shows you how to make large coils and how to carefully tape and insulate them and place them in the well insulated slots of the large cores.

This work makes you more confident and better able to "tackle" and wind or repair any of the large armatures and stators when you get out on the job.

When you finish these coils, you test them. And then connect them and solder them to the commutator.

Some of the windings are baked in a modern electric bake oven.

The instructor shows you how to cover them with a special varnish or insulating compound, and tells you at what temperature and how many hours armatures of different sizes should be baked.

This treatment keeps the moisture, oil, and dirt out of the finished windings, while they are in service. It greatly increases the life of a winding.

You also get special instructions on all types of material and tools to use on different windings, and the best shop methods for winding and testing.

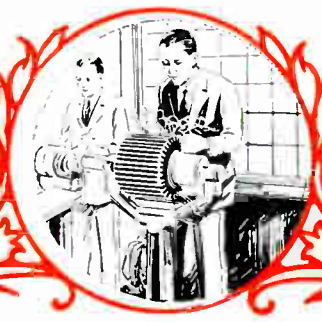
Training Is Thorough

I SEE that you get thorough training on methods of testing and "trouble-shooting," to locate troubles quickly out on the job.

And regardless of what line you later take up, your armature training will always be of great value to you. And it will be a great help in your understanding of motors in the next department or on any future maintenance job.

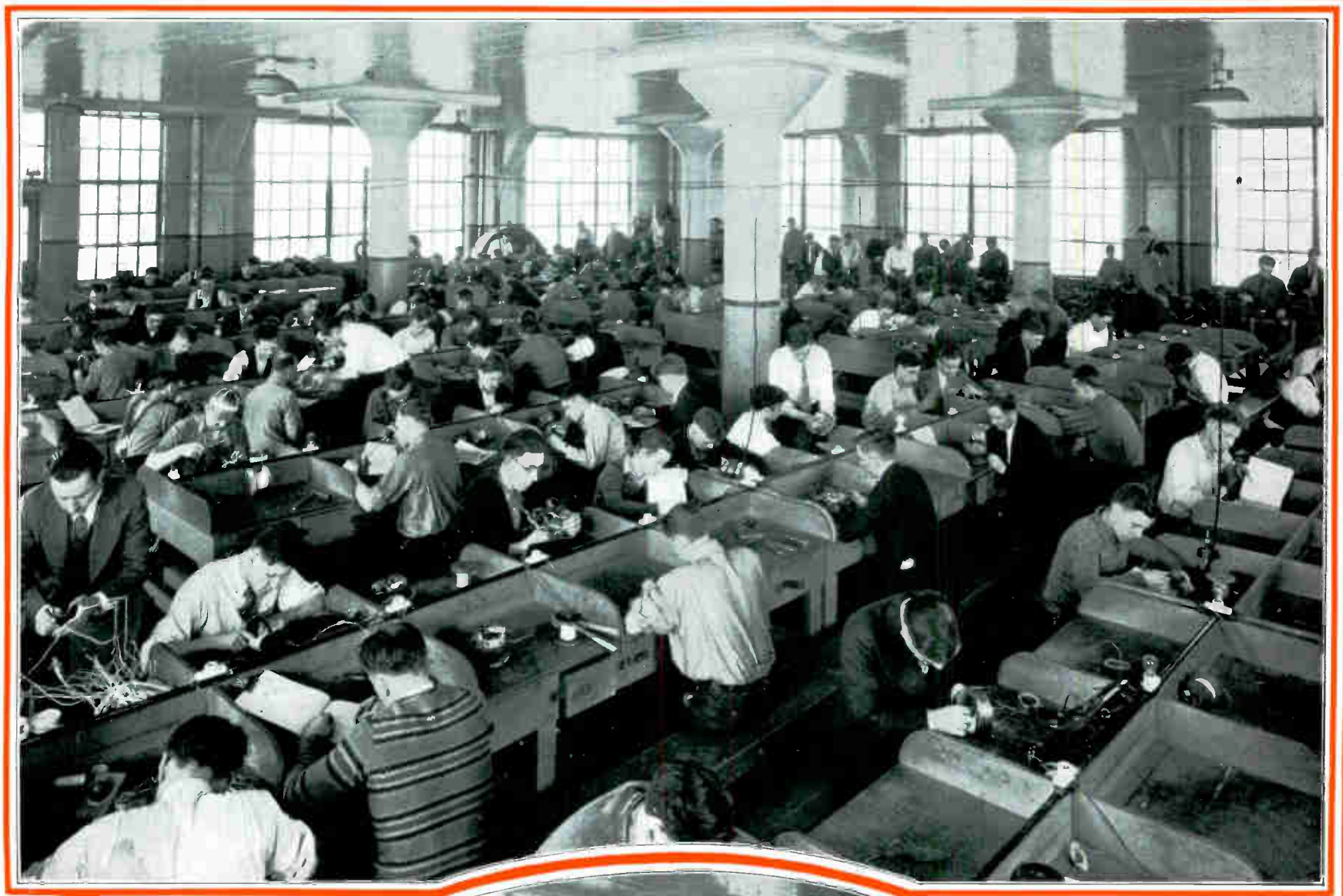
You will always remember the kind of practical work you do in this department and the thrill and confidence that comes of seeing your own windings work in the machines.

So now let's see the armature department on the next three pages.



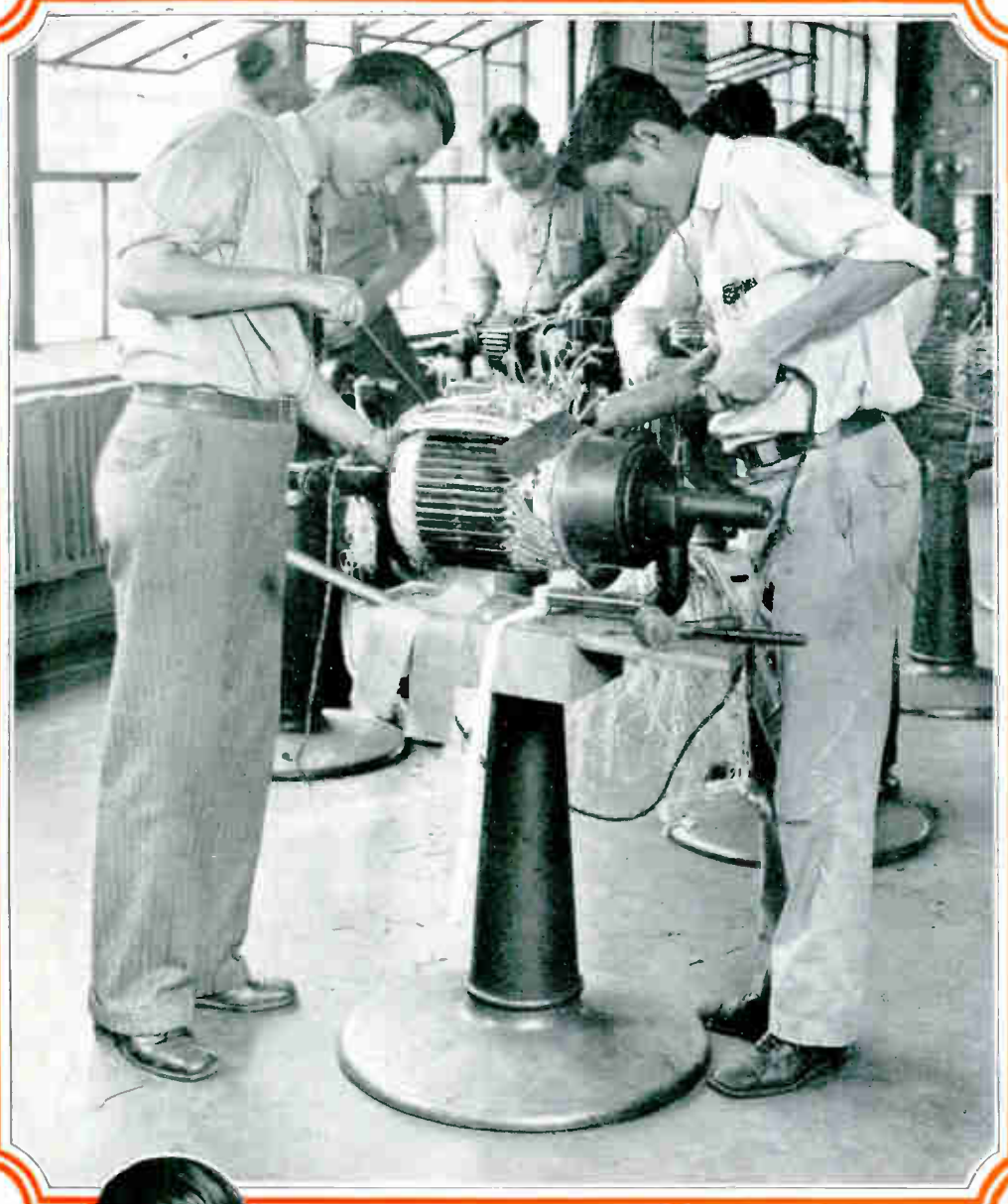
This and the Following Two Pages Shows You *My* ARMATURE DEPARTMENT

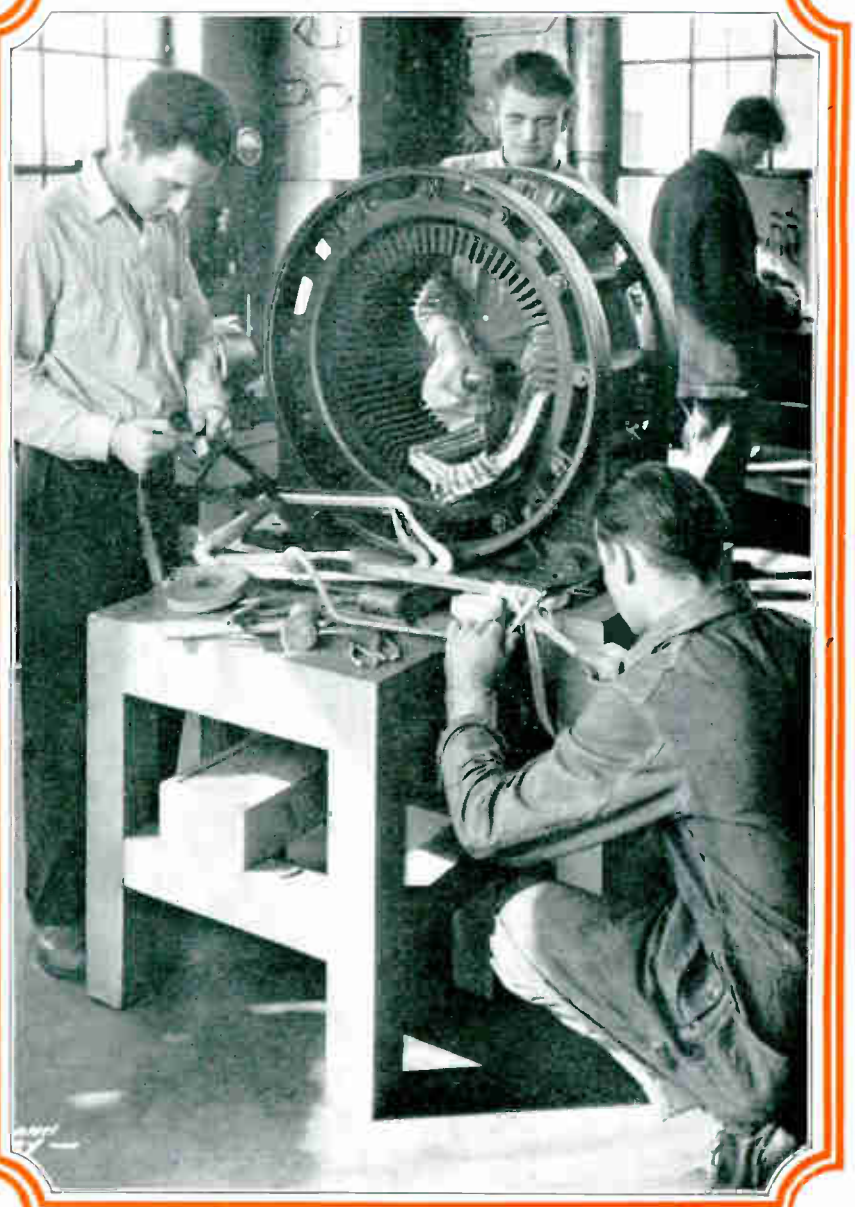
You will actually wind both Armatures and Stators and learn what makes motors run, so when trouble develops on any job, you can correct it quickly. That is why COYNE men have the confidence of electrical employers and command good salaries everywhere.

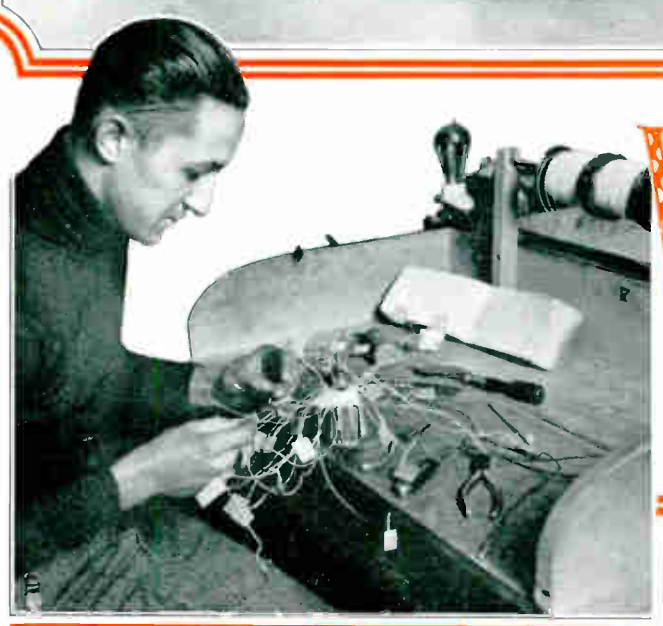


Here you see a general view of part of my Armature Department. And you will notice the large, airy, and well lighted shop these men are working in. They are winding small armatures and stators with wire coils. This is their first job in this department. Their next jobs will be on large armatures. And you can see instructors in the foreground, helping first one man and then another.

These fellows have finished their first small winding and here you can see them winding and testing large armatures and stators. In the background you will see men trueing up a commutator in a lathe and others winding a 200 h. p. A. C. stator. And in the foreground one of the instructors showing a student how to test his finished winding, before connecting up the leads.





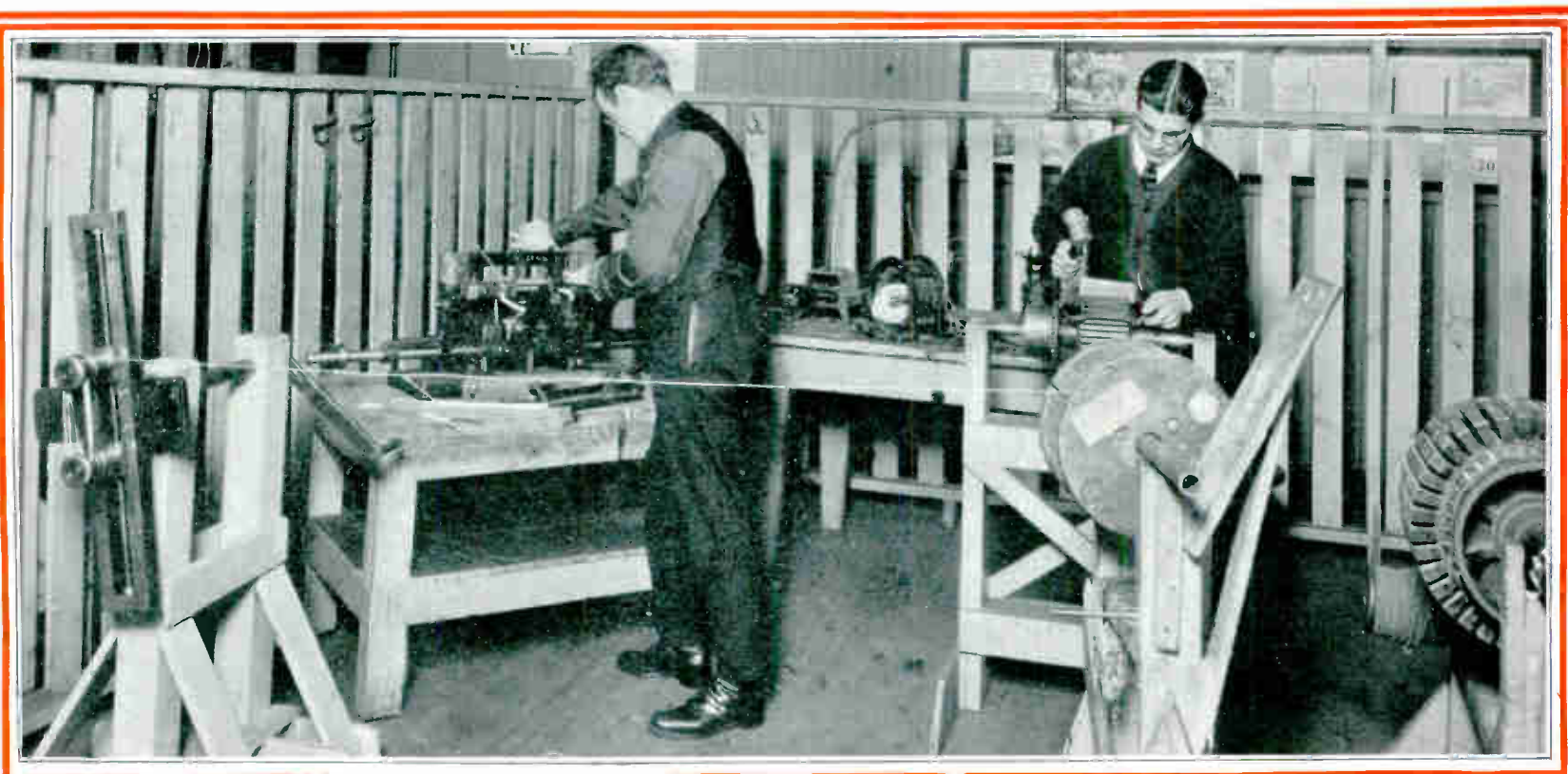


Above you see my students removing part of an armature winding, to repair some bad coils. This kind of real experience teaches them the proper use of soldering irons and tools, and the right methods to save time and do first class work. Isn't this a lot easier and better than book teaching?

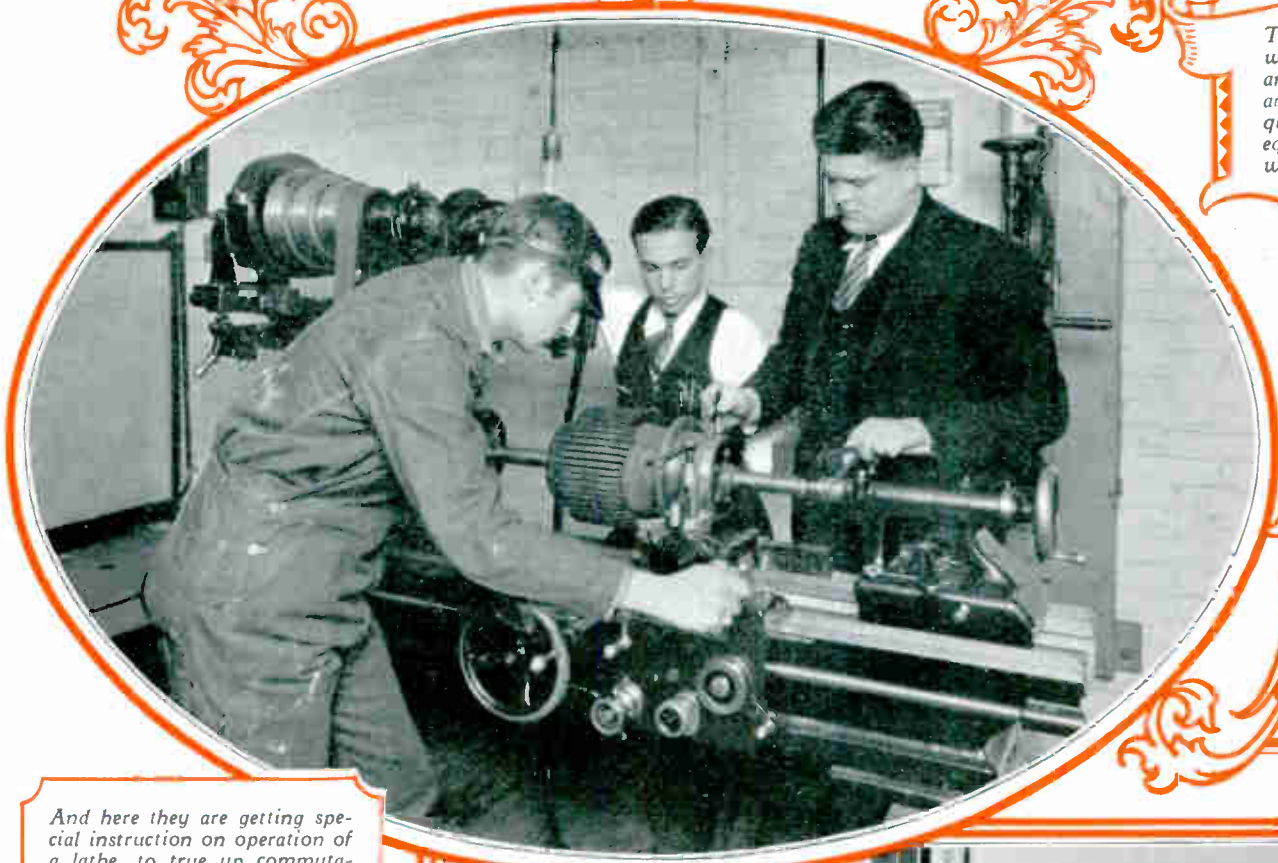
And these men are taping and putting in new coils in a 200 horsepower A. C. stator. This is the kind of actual work that makes them able to handle the big jobs in the field. You don't forget this kind of experience, and when you have done actual work like this you will have the ability and confidence to tackle repair jobs anywhere.

This man is testing a finished winding of a small D. C. armature, before connecting the leads to the commutator. These actual wire windings you do first on these small machines get you acquainted with the use of tools and handling of coils, so you are ready for the large windings you do next in this department.

These fellows are testing finished windings of armatures and stators. This is the way they find their mistakes and learn to make their windings correct, so they can become perfect in their work. Testing armatures and stators and locating faults in the windings, is very valuable to any maintenance man whether he follows armature winding or not.

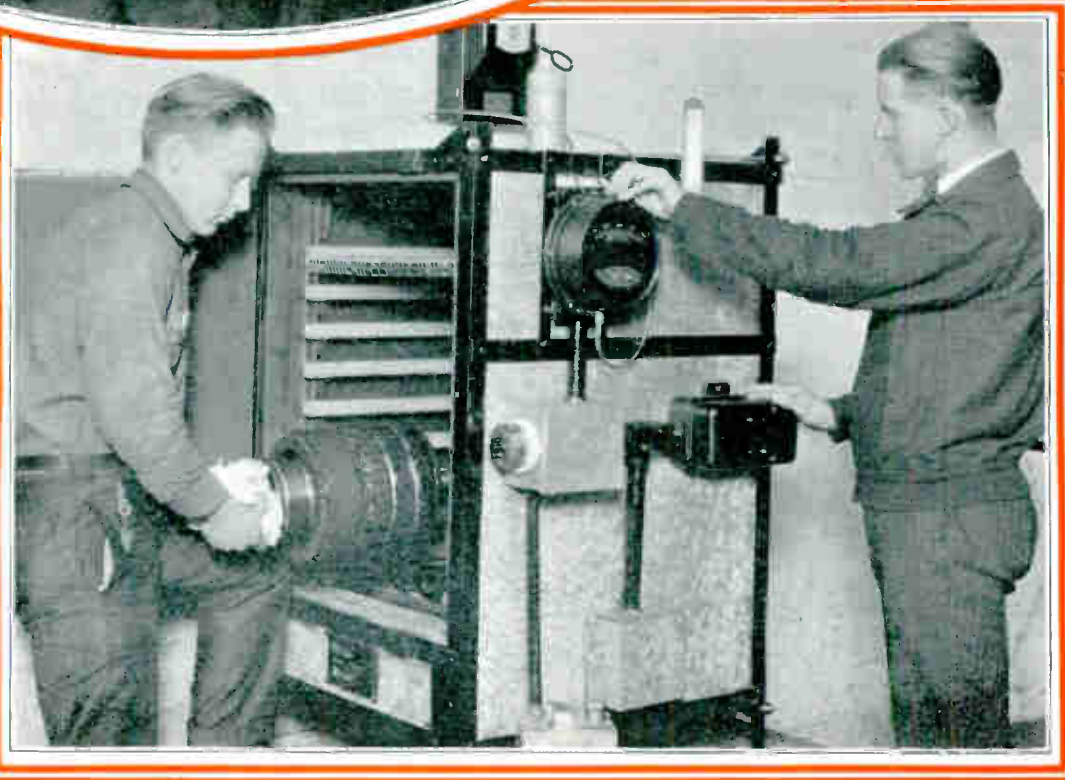


These men are operating coil winding and forming machines, and making up coils for large armatures. This gets them acquainted with the same type of equipment they will use in winding shops when they get out on the job.



And here they are getting special instruction on operation of a lathe, to true up commutators on armatures. The instructor shows them how to grind and set the cutting tool, and how to make a nice smooth cut on the copper.

This man is testing an armature on the growler, a machine for quickly locating trouble and faults in windings. This kind of instruction enables my graduates to get right at the cause of armature troubles without waste of time.



These fellows are operating the electric bake oven, and just removing an armature that has been wound, covered with insulating compound and baked, as all armatures must be. This treatment keeps out the moisture, oil and dirt that would otherwise ruin the winding.

Gets Good Motor Job Through Employment Service

I thank you for your Employment Service. I got a job the second day, right in my home town, working for the —— Steel & Wire Co. I am repairing motors and controllers. It is all direct current and series motors, and thanks to my Coyne Training, I find my work very easy to handle.

—ARCH COUSER, Penna.

Makes Success as Department Boss Due to Training

I have charge of the Commercial Motor Department of the —— Motor Service Co. My work is rewinding and overhauling motors. If it had not been possible for me to have taken Coyne Training, I could not have handled this dandy position, but I've been getting along splendidly.

—J. L. HUDSON, Tenn.

Now I'll Tell You about Power Work in the Direct Current Department

HERE you get into the most fascinating work of your whole course so far.

I have used the term D. C. in several places and wherever I have, it means Direct Current.

You are now ready to APPLY many of the things you have learned in all the previous departments to the actual operation, care and repair of real D. C. or Direct Current power machinery.

For example, the simple laws and demonstrations of magnetism you had in the Elementary department will make it very easy for you to understand the operation of the largest motors and generators. And the work you have had on armatures will help you to understand these machines in which they are used, still more thoroughly.

You will also have good use for your knowledge of Circuit tracing, in wiring and testing the controllers in this department.

So again you see how easy and simple we make even the advanced equipment, by our step by step practical system of training.

Great Opportunities In This Field

D. C. motors and generators are used very much in steel mills, for electric railways, elevators, and in some districts close to generating plants whole areas will be operated by D. C., including factories and industrial plants. Many big factories that operate their own power plants, use D. C. equipment, and so do many small towns. Even the business district of Chicago, known as the "Loop," is operated largely by D. C. So this is a very broad field, and offers splendid opportunities to trained men, in good paying jobs as power plant operators and motor maintenance men.

Complete Equipment Needed For Practical Training

REALIZING the great importance of this field, I have accumulated thousands of dollars' worth of splendid machines of all sizes and types to make your work complete and practical in this department. You work on motors and generators of many types, and from the smallest to those of many horsepower. Controllers of all common types, from the simple hand operated ones to the most modern automatics, and photo-cell types.

Even a complete power plant switch board is provided for your final operating experience.

Motor Training Easy and Practical

WHEN you start your work in this department, your instructor first explains the operation of D. C. Motors, using actual parts of a machine and interesting blackboard sketches, some of which are in various colors to make it easy for you to understand every point.

He goes over with you briefly the work you had in the Elementary and Armature Departments that applies to these machines, and sees that you get every principle of them thoroughly. Because a proper understanding of their operation will make you able to wire them up or find and fix their troubles much quicker when you get out in the field.

When you understand motor operation, he tells you the different types of motors and how they operate and where each is used.

Plenty of Personal Help

THEN you go right to the machines in the department and he shows you how to connect up and test and run the actual power motors. And in this way you prove out everything he has told you and by doing the work on the machines yourself you always remember what you learn.

Then your instructor explains D. C. motor starters and speed controllers. Again he takes a simple controller first, shows you all the parts, and explains each. Then he draws it all out on the blackboard so you can get a still better picture of it in your memory, and also in order for you to copy a sketch of it to keep in your own note book, so you can easily refresh your memory wherever you have need for it.

Thorough and Complete

YOU are taught how to select the right motor for different uses. And also how to test the horsepower of motors with special testing equipment used for that purpose. Then how to determine their efficiency, using both the horsepower test, and meters.

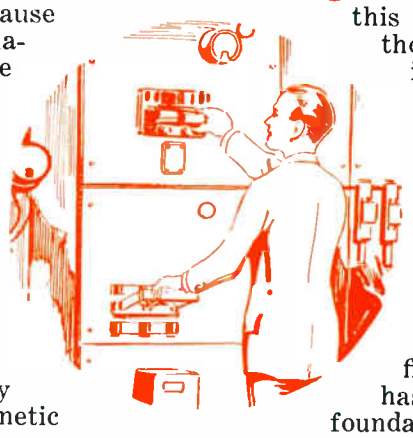
This is all very interesting work, and qualifies you to hold the better jobs when you get in the field.

Your work on Controllers covers simple hand operated starters, as well as the later automatic and photo-electric cell operated controls. Practical training on this late type equipment is what puts you ahead of the untrained man on the job.

Instructors Work With You

THEN you also get complete instruction on trouble shooting and repairs, and how to test to quickly locate any of the common troubles in both starters and motors, and then how to fix them.

Your instructor will often cause something to go wrong with a machine and then tell you to find the trouble and fix it. It is sometimes necessary for you take the machine completely apart. If you get stuck he is always near and ready to help you out, and show you the right way. This repair work gets you familiar with the proper use of tools. You also learn how to connect motors for dynamic braking operation, by which they can be stopped quickly and smoothly by their own magnetic braking effect. This is another very valuable thing to know, as you can make it save lots of time on certain motor jobs for your employer.



With such Training as this, is it any wonder Coyne men are in demand?

Now You Start On Generators

NEXT your instructor explains the operation and care of different kinds of D. C. generators and their use. Then you wire up and test and operate different kinds of generators and motor-generator sets. You work out your problems on these actual machines until you thoroughly understand generator operation, care and repair.

Power Switchboards

NOW you get special instruction on D. C. switchboards and how they are constructed, wired, and operated.

You learn the kind of materials used for the panels, how they are erected, and how the meters and switches are attached. Then how to put on the bus bars (or heavy copper bar conductors) and control wires.

Your instructor explains the use and care of all the instruments, circuit breakers and switches, and then how to operate the board. This is explained first with complete blackboard diagrams which you can copy and keep, and then right on the main power board in this department.

Here the instructor demonstrates each operation and shows you how to read the meters, how to adjust the generator voltage, connect generators in parallel and then equalize their load with the controls on the board.

Then you do the same operation yourself, and **what a thrill you get** when you realize that you are controlling many horsepower or kilowatts of energy from real generators in the department the same as you will later, in some power plant.

You are instructed in common power plant operating rules, so you can go about it like an old timer when you get out on the job.

Meters and Instruments

NEXT you learn about meters, voltmeters, ammeters, watt-hour meters, demand meters, and recording instruments.

The instructor explains them with actual meters and parts before you, and simple sketches to make clear their operation and connections. You learn how to read them, and how to test and adjust them and the different uses for each.

You also learn how to use what is known as a "megger," a device used to test the insulation of machines.

Thoroughly Trained

SO you see, everything needed to make sure of your success in this this great field of Direct Current is thoroughly covered, with the most interesting and practical work on actual machines and equipment, and plenty of patient help and capable, friendly advice from your instructors at every step.

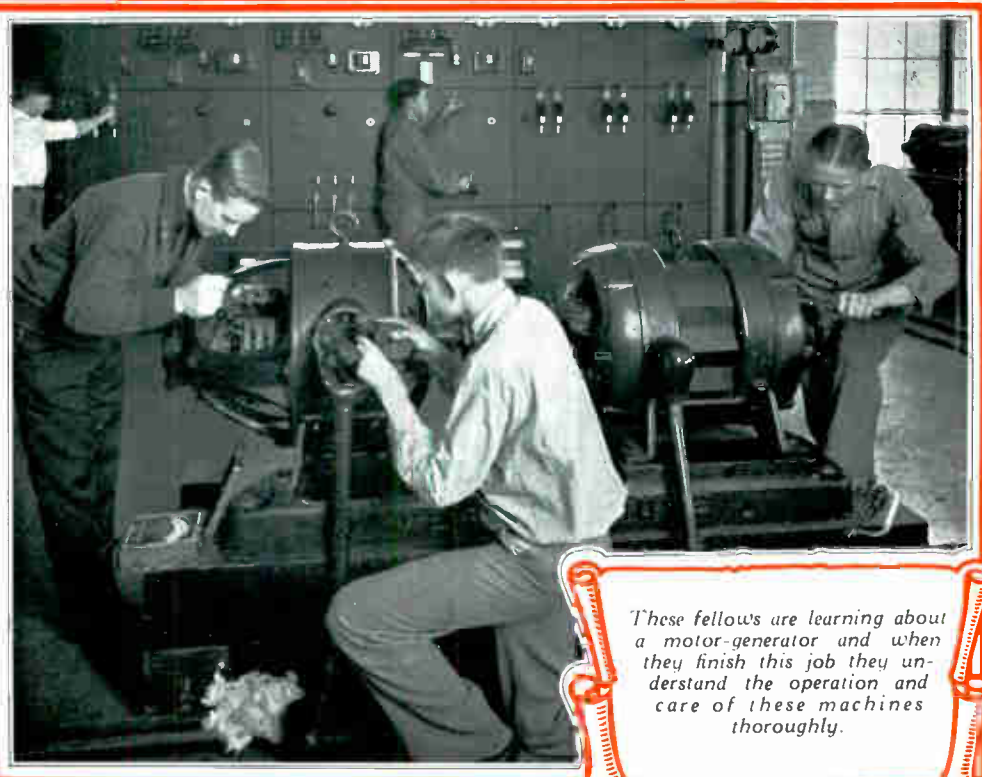
When you leave this interesting department you will feel sure of your ability to go out and master D. C. work and qualify for the big jobs in this great field. The work in this department has also laid a great deal more of the foundation for your work in the greatest branch of the entire electrical field, Alternating Current, which is covered just as thoroughly in my A. C. Department, which is next. **But before you read about this,** I want you to see my D. C. Department on the next three pages.

On This and the Next Two Pages You See My Students at Work in the
Direct Current Department

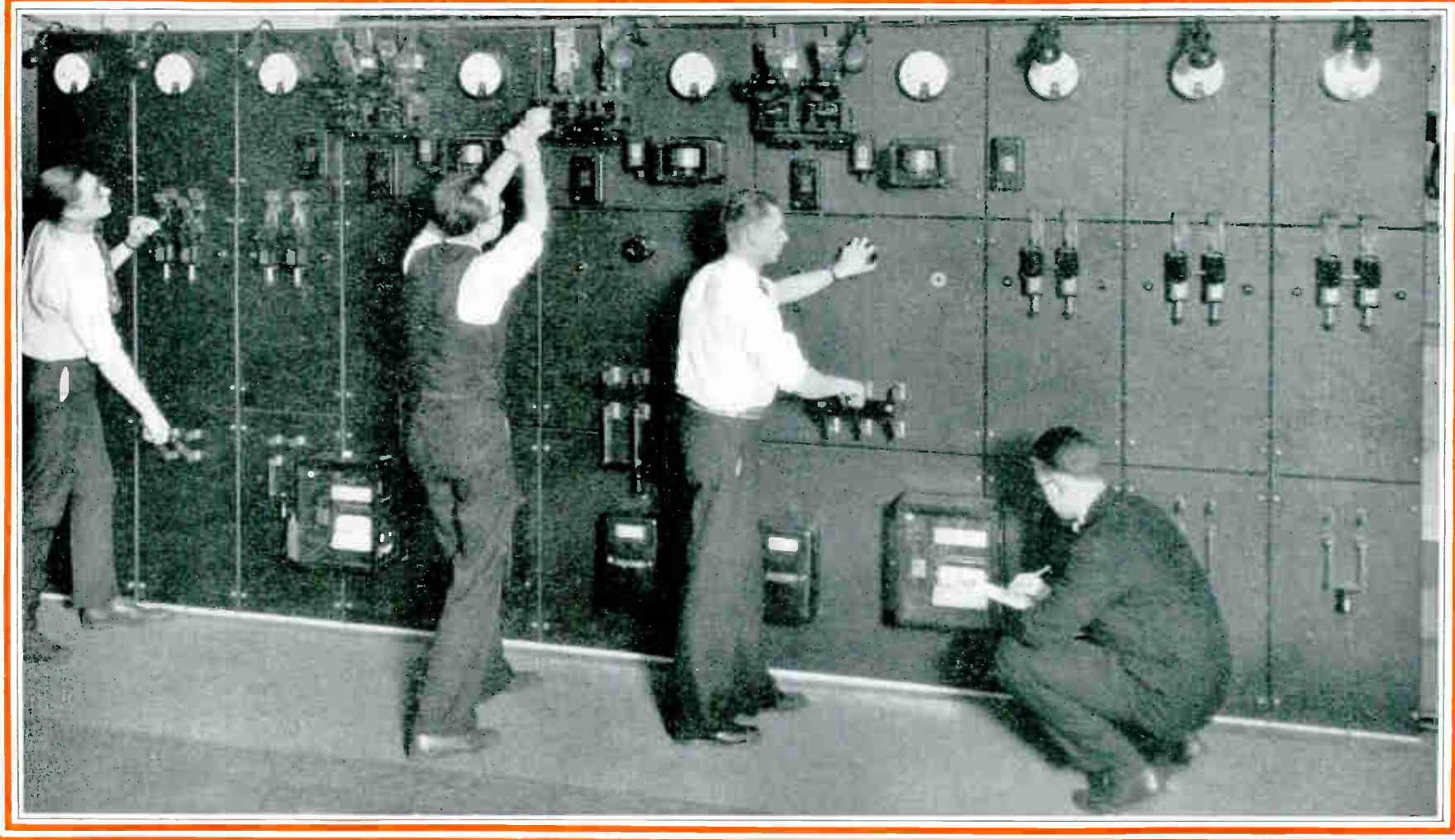
The work you do on this kind of Direct Current Machinery fits you quickly for the Big Pay Jobs in "trouble shooting," repairing and maintaining power equipment in Power Houses, Manufacturing Plants, Industrial Concerns and on Railroads. Just imagine yourself as one of these students.

Here is a general view of my D. C. Department. Just see how interested they are in their work wiring up, operating and testing D. C. motors and controllers of all common types. Notice the wires coming down from overhead, to supply current for running tests on every machine, no dead machines or toy models, all actual running machinery.

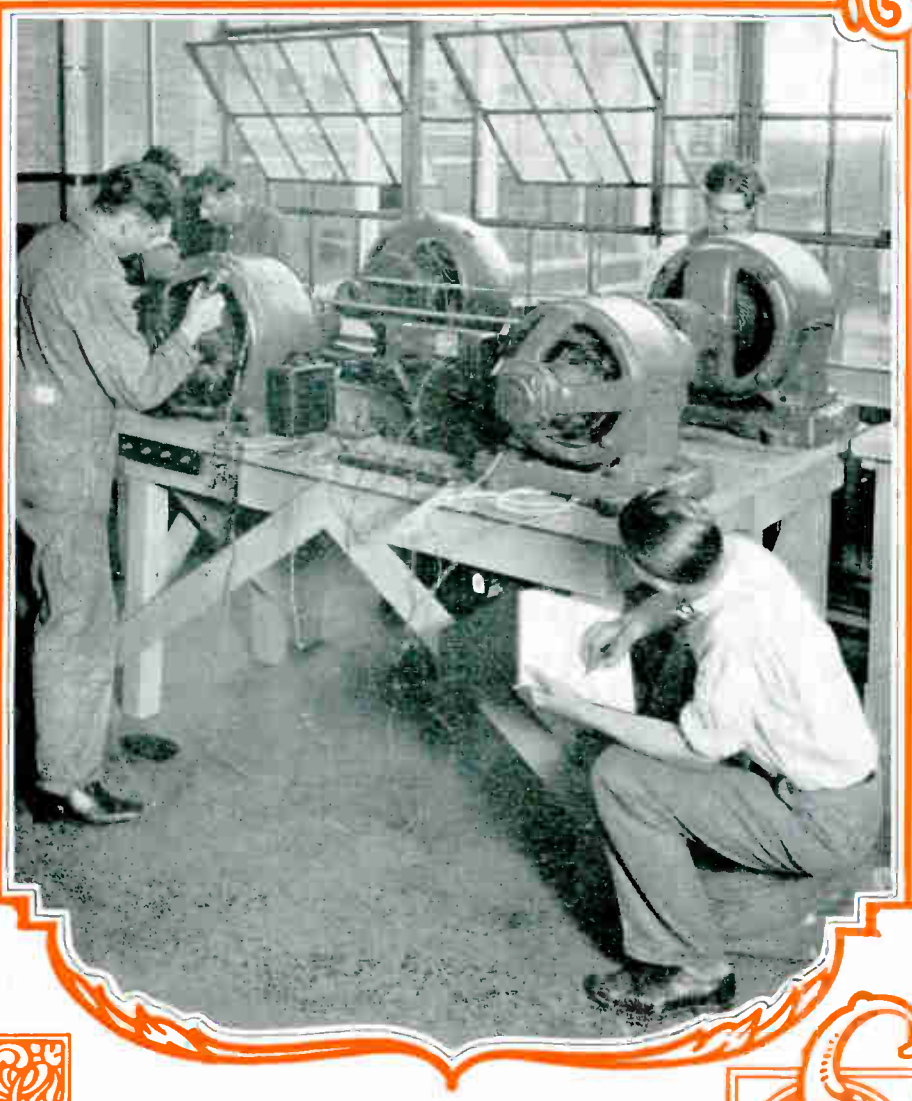
These fellows are learning the operation of an automatic controller and compound motor, and learning to make the same tests and repairs they will have to do out on the job.



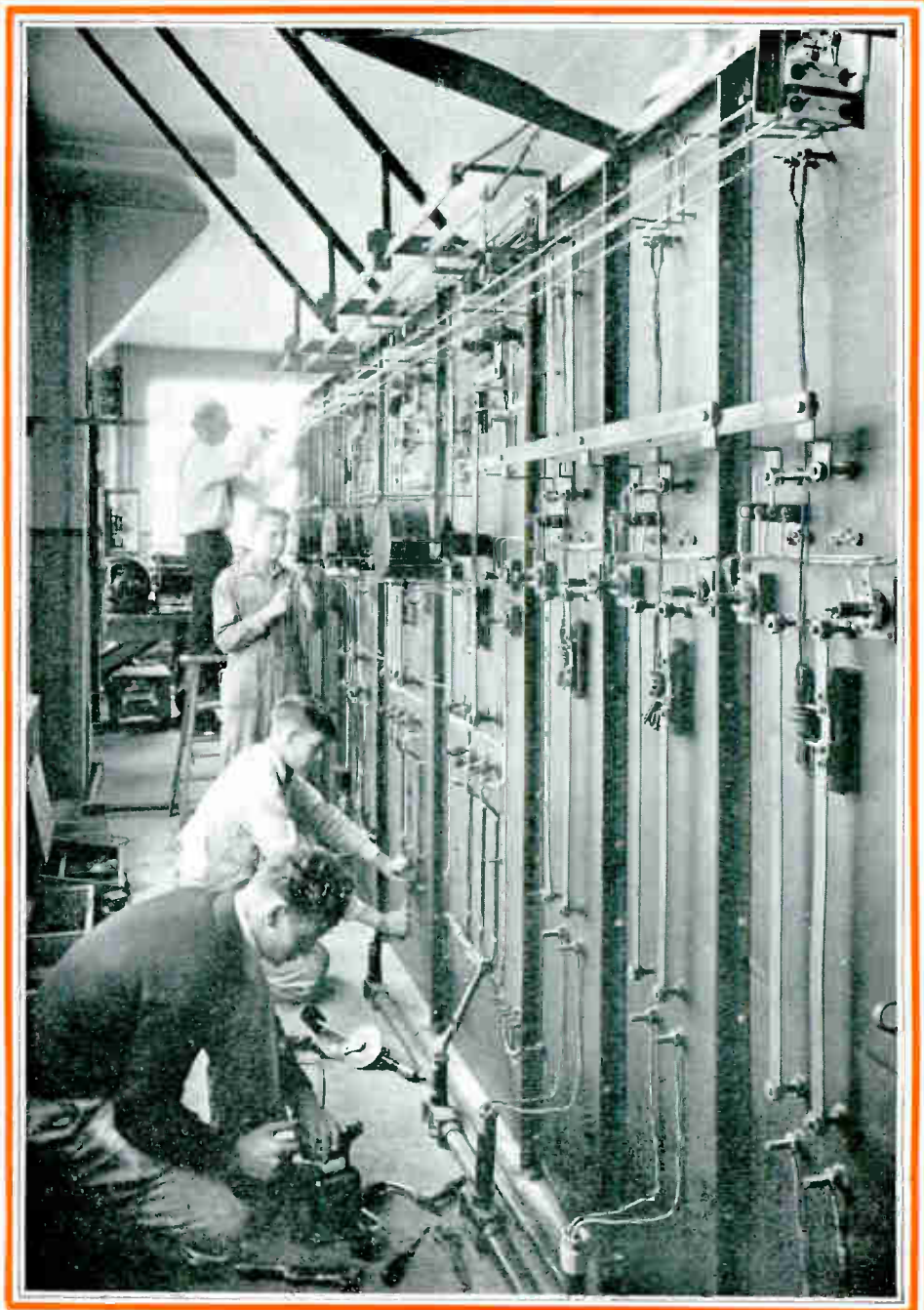
These fellows are learning about a motor-generator and when they finish this job they understand the operation and care of these machines thoroughly.



Here are my students getting real operating experience on a large modern D. C. Switchboard. They learn to connect and operate generators in parallel, and to take care of circuit breakers, switches and instruments. This kind of training qualifies them for the power plant and sub-station operating jobs.

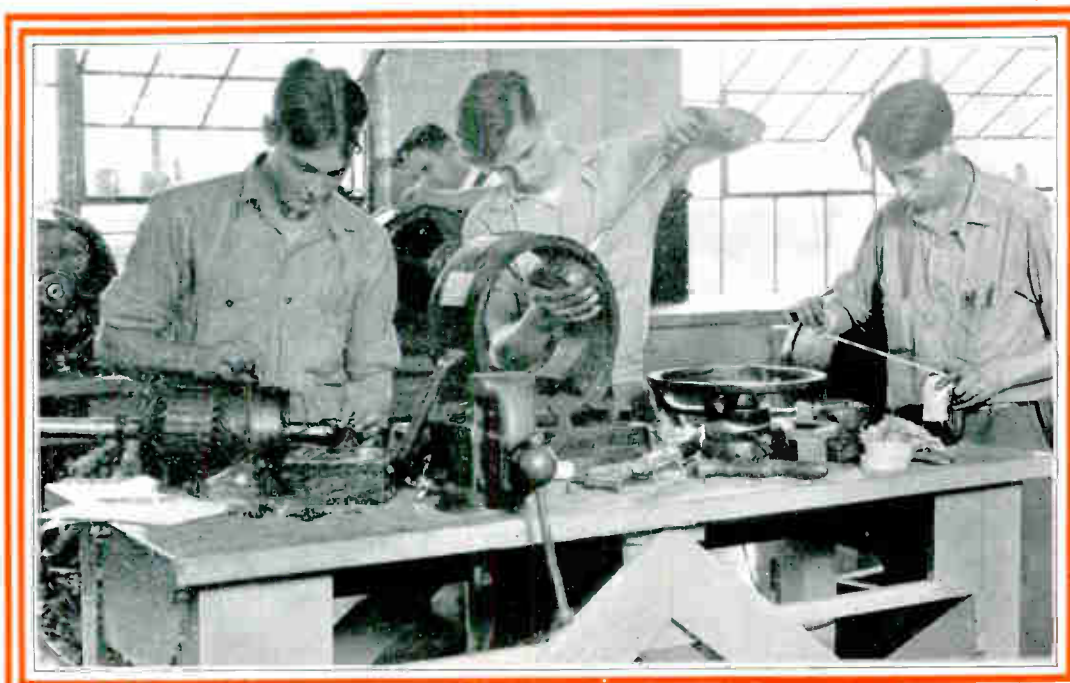


These fellows are operating and testing motor generator sets, building up voltage, and measuring output of these machines.



And here is the back of a large switchboard, showing fellows wiring up the panels and instruments for some new machines in the department. General features of switchboard construction are thoroughly covered in this department.

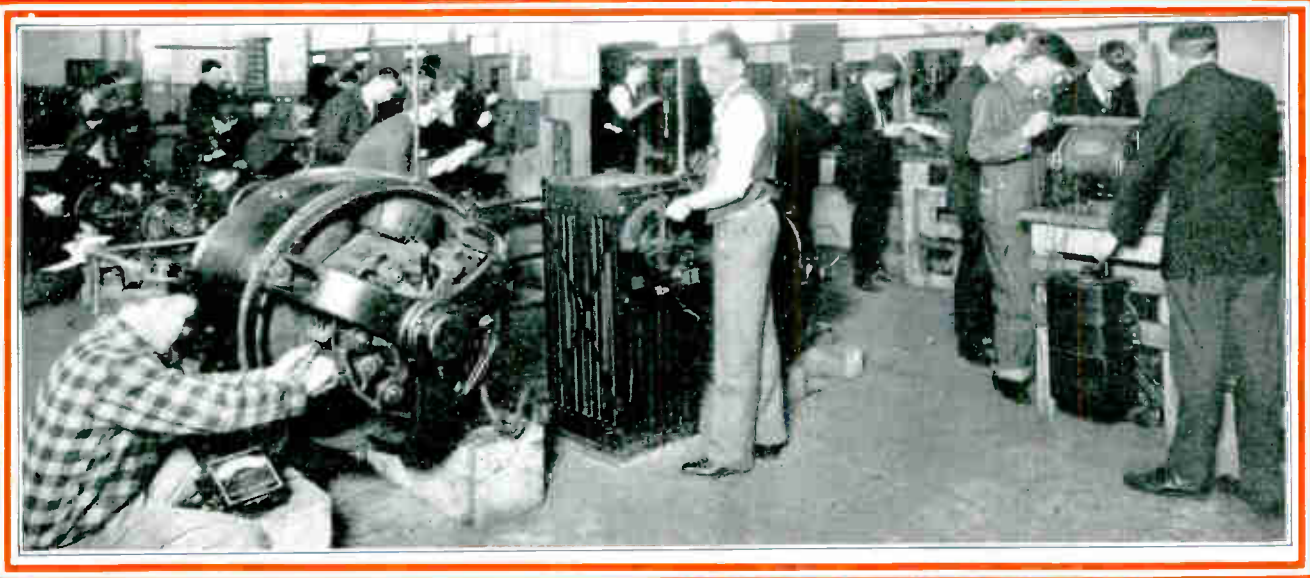
This is how my students get the testing of automatic remote control equipment, and learn how to quickly locate troubles so they can save time and money for their employer when they get out on the job.



Real practical training. These fellows are completely overhauling and repairing a D. C. motor, and repairing the field coils, and the commutator and armature.

Made Chief Electrician of Big Corporation

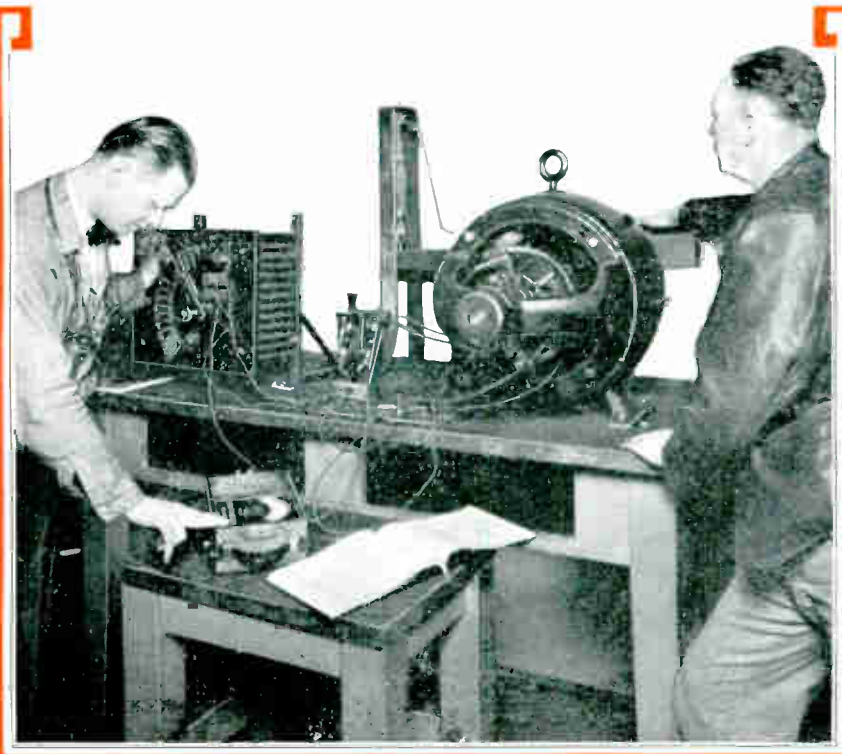
Due to my knowledge of electric motors and wiring, obtained at Coyne, I have obtained the position as Chief Electrician for —— Sand Corporation. I have 12 large motors and 5 generators to take care of, besides lots of other electrical equipment. I am getting good pay and have been promised a 20% increase in three months.
—ALBERT RIMER,
Pennsylvania.



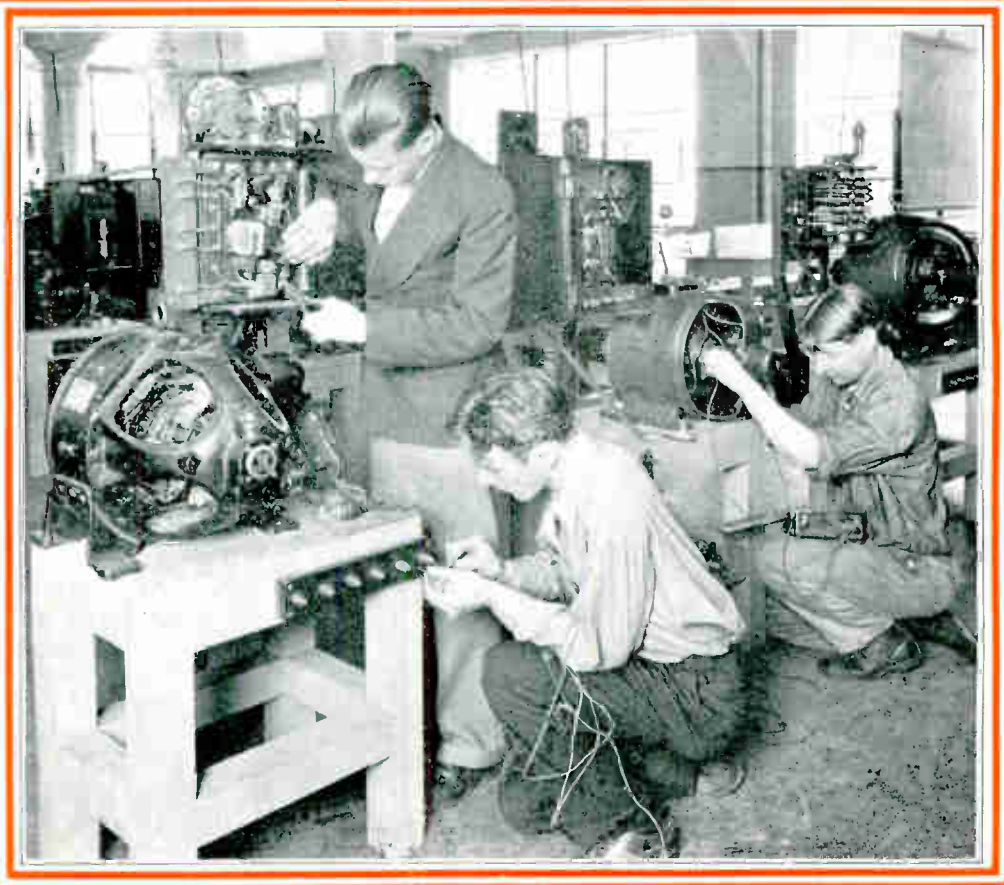
Here you see several of my students testing and operating generators. The large machine at the left, is used to make practical demonstrations of a three wire generator, and also dynamic brake tests.

Motor Factory Job Pays Him $300.00 a Month

I'm always glad to boost the school that gave me my success. I have a good job with the —— Company, exhaust fans and motors, paying me $300 a month. The training I received at Coyne in Direct Current has been a great help. Before hiring me, the boss asked me a lot of questions which I could answer at once, so I got the job.
—J. N. VORGIAS,
Illinois.



And this is a horsepower test, you learn to test the horsepower and efficiency of motors, and to select the proper motor for various jobs they are used on



These fellows are wiring up and operating modern automatic controllers, and testing their operation right with the motors.

Let Me Tell You Now About the Most Interesting Branch of Electricity—ALTERNATING CURRENT

HERE you enter my great Alternating Current Department and commence your work in one of the most fascinating and profitable branches of the entire electrical field.

Wherever you find me using the term A. C. you will understand that I mean Alternating Current.

Alternating Current machinery is used in practically all of the large power plants of the country, and in the majority of the thousands of great electrically equipped factories and industries.

There are so many different uses for A. C. that I cannot mention them all here, and it is one of the most rapidly developing branches of electricity.

A great many of the electricians in the field today who have not had proper training, do not know A. C. the way it should be known, and are not advancing into the real jobs this branch is creating by the thousands.

That is why it pays to get your training at Coyne, where you can be sure of getting the most complete and practical knowledge of A. C. and where 30 years of teaching experience have enabled us to make this great subject **clear and easy to master** — where you will have plenty of actual A. C. power machines to prove every step of it out, so you are sure you know it. You will always remember it, because you have done it with your own hands, right on the machines.

Complete Power Equipment

BECAUSE of the great importance of A. C. today in any branch of electrical work, and because you will need a good understanding of it to make your best success in any branch, I have gone to enormous expense to make this department the most complete thing of its kind in the country.

Here you will work on a great number of real commercial sized A. C. power machines, from those of less than one horsepower to those of over a hundred horsepower. Motors, controllers, generators, transformers, power plant switchboard, complete outdoor type substations, transmission lines, lightning arresters, oil switches, air breakers, welders, etc., all help to make this department one of the most fascinating and enjoyable, and extremely valuable of your entire course.

You will be thrilled with every minute of the time in this department until you are ready to leave it, with a most complete and practical knowledge of A. C. that will give you full confidence to step out and "tackle" any of the most difficult jobs in this line. Even those on which many ordinary electricians give up in despair will be simple to you.

A. C. Made Simple

IN this department your instructor first gives you a thorough practical explanation and demonstration of the nature of Alternating Current, and how it differs from Direct Current.

He uses simple blackboard diagrams, and parts of machines along with his plain shop talk, to make these principles clear to you.

No course would be complete or practical, without the explanations of these entirely practical theories or principles of Alternating Current, that we make so clear in this department.

We even use elaborate motion pictures along with the practical talks to help you grasp certain facts about A. C. and the construction and operation of A. C. power equipment.

Then after these simple explanations, you go to the actual equipment, and with the help of your instructor you make a definite and final proof of each fact, worked out on the running machines.

You start by wiring and testing small motors, and then gradually progress to the largest and most advanced machines. Because in this department, just as all thru our course, I have arranged your work so each job is just a step ahead of the last. You reach and master the biggest jobs almost before you know it. You have been prepared all along the way for each step ahead.

After you thoroughly understand the simple motors, you go to the larger machines.

Real Practical Work On "Trouble Shooting"

WHEN you have a motor connected up to run, you test its speed and its pulling power.

You change the connections and reverse it. Remove a wire here or there to see how it acts when a connection comes loose. You observe how it acts when in good condition and with connections O. K. and also how it acts and sounds when various things are wrong.

In this way you learn to quickly locate troubles by the symptoms. And you also use test lamps and meters to make tests for the troubles that cannot be detected by anyone but an expert. And after you have done this on a number of machines, you can find and fix any of their common troubles quickly. It is this kind of training that puts **Coyne** Trained men in demand.

Along with each motor is a starter or controller of the proper type, to be wired up with the motor.

Personal Help and Instruction

YOUR instructor is always near to help you with anything you get stuck or puzzled on. He points out ways to do each job best, and how to save time, and locate troubles quickly, and just where to look first for most common troubles. He continually gives you patient advice from his own, and our, long years of field experience.

When you finish any job he asks you questions about it to check up and help you be sure you know all the important points. **And many of these questions you answer for him are the same as you will be asked when applying for work later.** So you can see how every part of our course is planned to make certain your future success.

While working on motors you have very important jobs on which you make all kinds of different tests. These are very important things for the electrician to know if he wishes to qualify for the best jobs.

Then you work on what are known as synchronous motors, and learn how to use them and probably save your employer hundreds or thousands of dollars by improving the conditions and equipment in his plant. Is it any wonder **Coyne** Trained men get good steady jobs and good pay?

Power Plant Experience

THEN after you have mastered all the motors and controllers, your instructor explains various types of A. C. generators to you —how they operate, how to take care of them, wire them, test and repair them. Then you actually connect up and operate them. Then you get real power plant switchboard operating practice on the large modern main switchboard, at which you are given the responsibility of operating the generators and controlling the power for the entire department.

The machines you will operate generate enough power to supply a small town.

You learn the modern methods of remote control operation used in the very largest power plants.

You get practice on a complete outdoor type substation with its transformers, choke coils, lightning arresters, high tension fuses and switches, and even a 3 phase transmission line on high tension suspension insulators running to this substation. Don't forget you will go on inspection trips to some of the largest and most modern power plants and substations while in this department (as you will see on page 32).

Arc and Spot Welding

BECAUSE of the thousands of these machines now being used, in modern industrial plants, and the great increase in their use, I have prepared special equipment for your thorough training in this very profitable branch also.

You will learn arc welding with modern welding generator equipment, and spot and butt welding on specially built machines of this type.

Another one of your very important jobs in this A. C. department is that of complete overhaul, test and repair of several types of A. C. motors, starters, etc. Here you go to special work benches where you can conveniently take apart and re-assemble these machines with the proper tools. The instructor will show you how to make certain tests and notes of connections, and troubles on them.

Valuable Training In Modern Maintenance

ALONG this same line you are given very thorough instruction on maintenance of all types of A. C. machines in industrial plants. Not only on how to find and fix the troubles, but how to do this in the quickest and best way, and how to make regular and systematic inspection and tests of equipment, to locate and correct faults before they become serious and cause an actual shut-down and loss of time and money in your employer's plant. Then you practice these methods right on the department machines. You learn how to plan a list of stock parts to carry for quick emergency repairs, and the best of modern methods of maintenance as used in the largest industrial plants and power plants in the country.

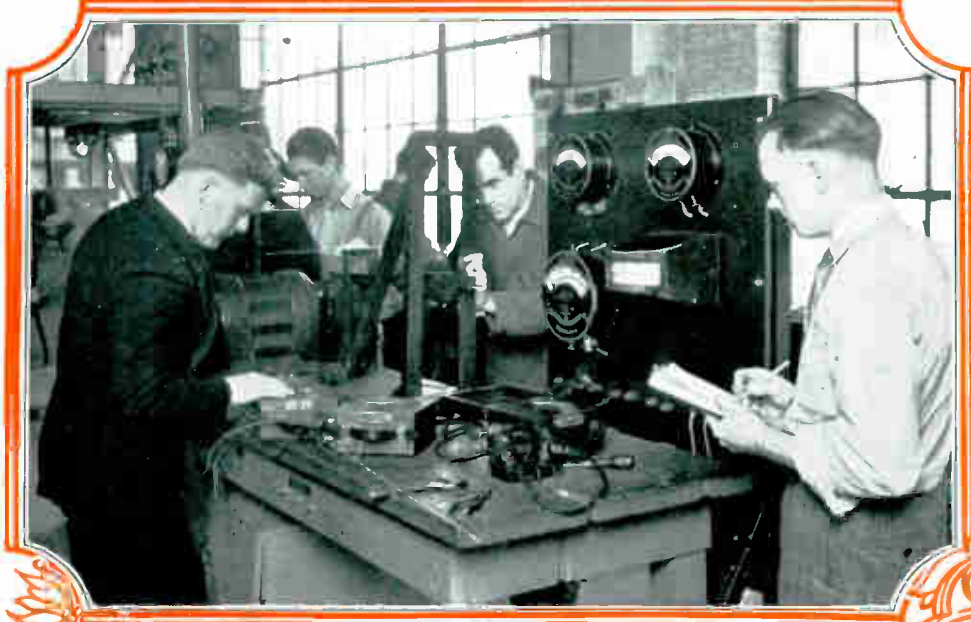
I am sure you can readily see how such training here at **Coyne** will fit you for the best jobs in this great field. A field which is creating thousands of new jobs for trained men every year.

That's why I have spent many thousands of dollars and years of careful planning to see that you have the most complete, practical and up-to-the-minute training, and all types of machines to actually prove out and get your experience on while in this department. Then when you finish here you will be confident and able to go right out and tackle any kind of job in wiring, operating, or maintaining and repairing of A. C. machines. So you will be qualified to hold one of the thousands of steady, good paying jobs that are calling for **trained practical men** in the fascinating field all over the world. So now let's see this wonderful department in pictures on the next five pages.

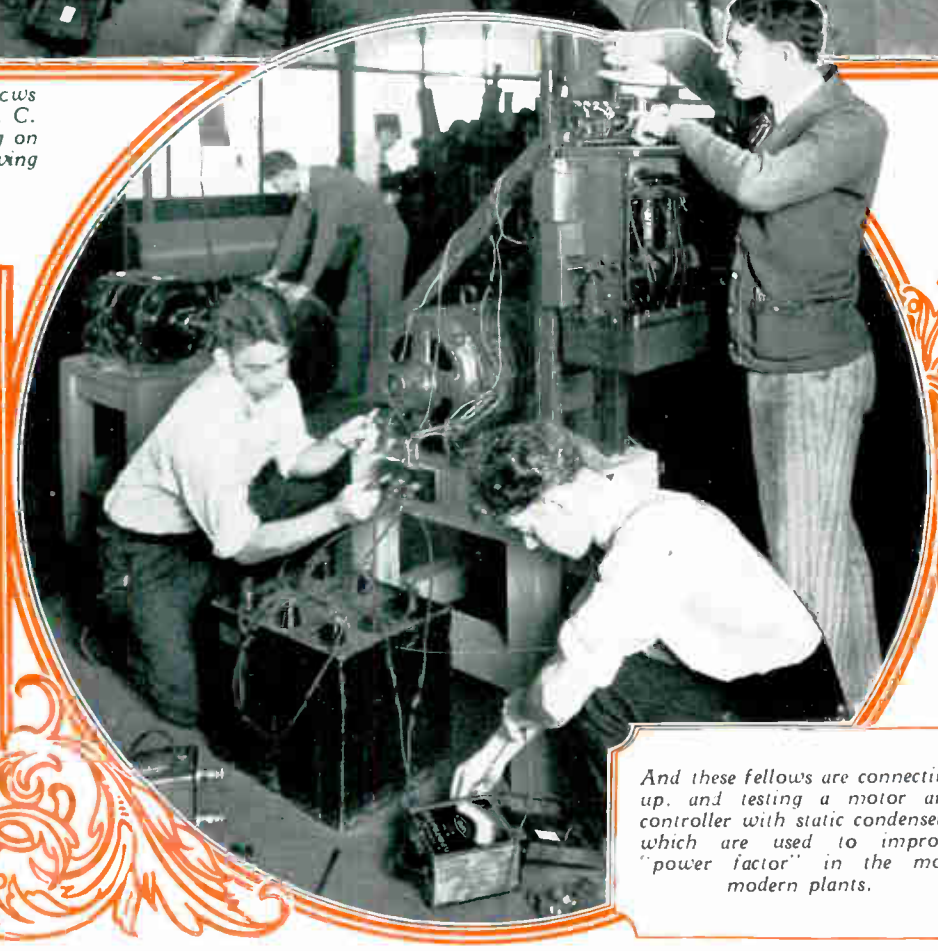
These 5 Pages Show You My Great Alternating Current Department

In this department I have spared no expense in making this the greatest outlay of instructive, fascinating power machinery ever provided in any institution for educational purposes; including all common standard types and the very latest machines developed. Is it any wonder COYNE Graduates are in great demand and able to qualify for salaries leading to $50 and up a week?

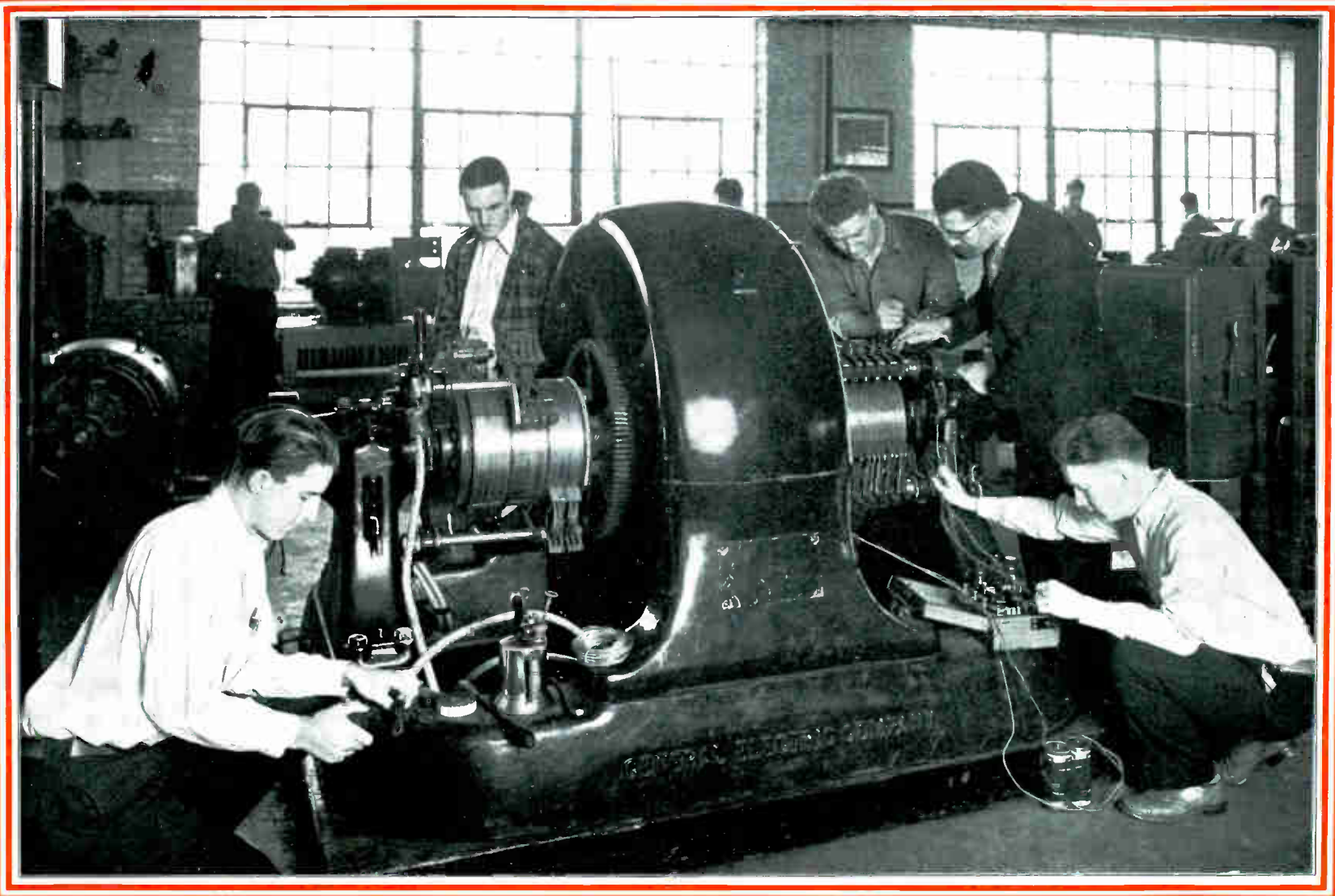
Here is a general view of one section of my alternating current department. And all these fellows you see on these interesting jobs, are getting the best kind of experience on all types of A. C. motors, controllers, and power equipment. In the far background you will see men working on the top of a complete substation. This only shows a part of this department, and the following pictures show you some of the other equipment in this department.



These men are testing the horsepower, efficiency, and power factor of an induction motor. All very valuable things for the practical maintenance man to know.



And these fellows are connecting up, and testing a motor and controller with static condensers, which are used to improve "power factor" in the most modern plants.

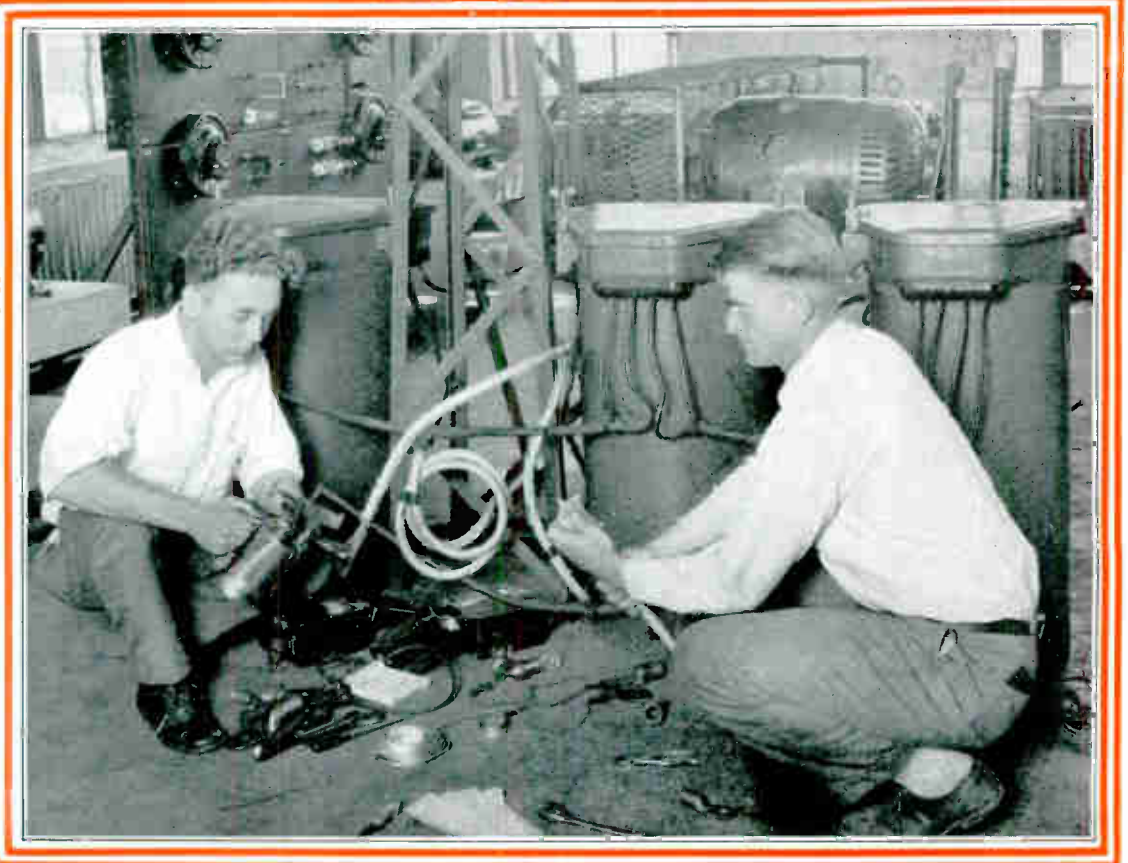


Here you see some of my boys working on a synchronous converter, and making some very interesting connections and tests, under the supervision of the instructor on the right. This machine is used to change Alternating Current to Direct Current. It's the actual work on such machines as this that gives my graduates the ability and the confidence to tackle any kind of a job in the field.

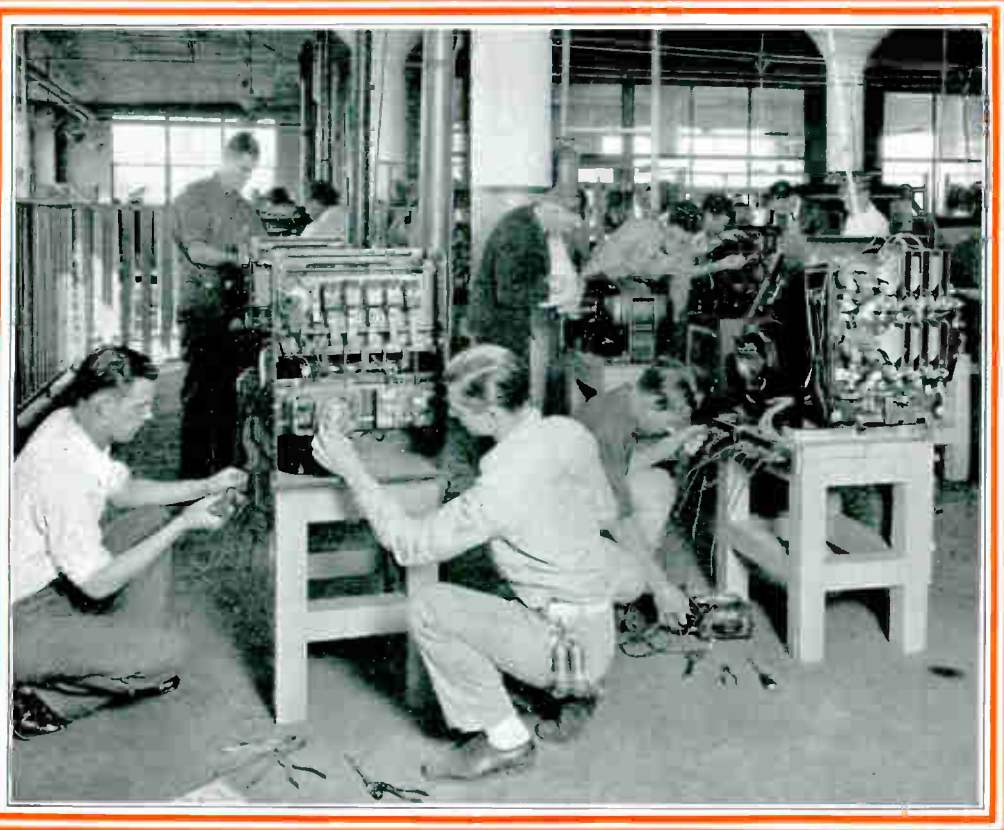
These fellows are connecting up, testing and repairing various types of A. C. motors and controls. When they get the machine running and understand its operation, use, and care, the instructor checks their work, so they know it is right, and when they leave school to take a job on the outside, it's just like changing jobs.

The picture on the right shows an instructor explaining the operation of some of the latest type photo electric cell control equipment with which these students are working. Actual experience on such interesting up-to-the-minute equipment is one of the important reasons why Coyne Trained men are in demand in the Electrical Industry.

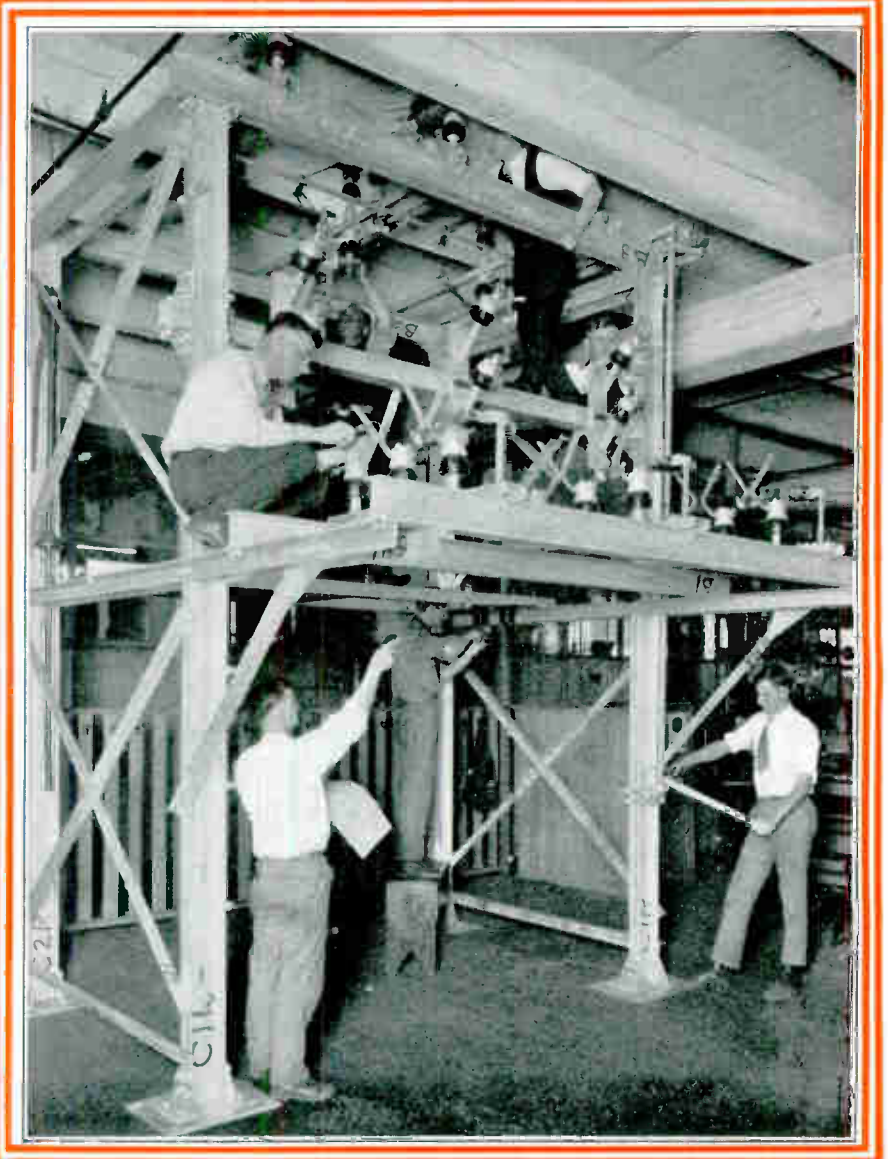
Here an instructor is explaining important principles of an induction motor on a machine specially cut away, so you can observe these points both while it is idle and when it is running. This is an example of how some of our specially prepared equipment will save your time, and quickly and easily make these things clear to you.



These fellows are connecting up a bank of three power transformers, and soldering the lugs on the cables with a blow torch, and learning how to use the tools on the job.



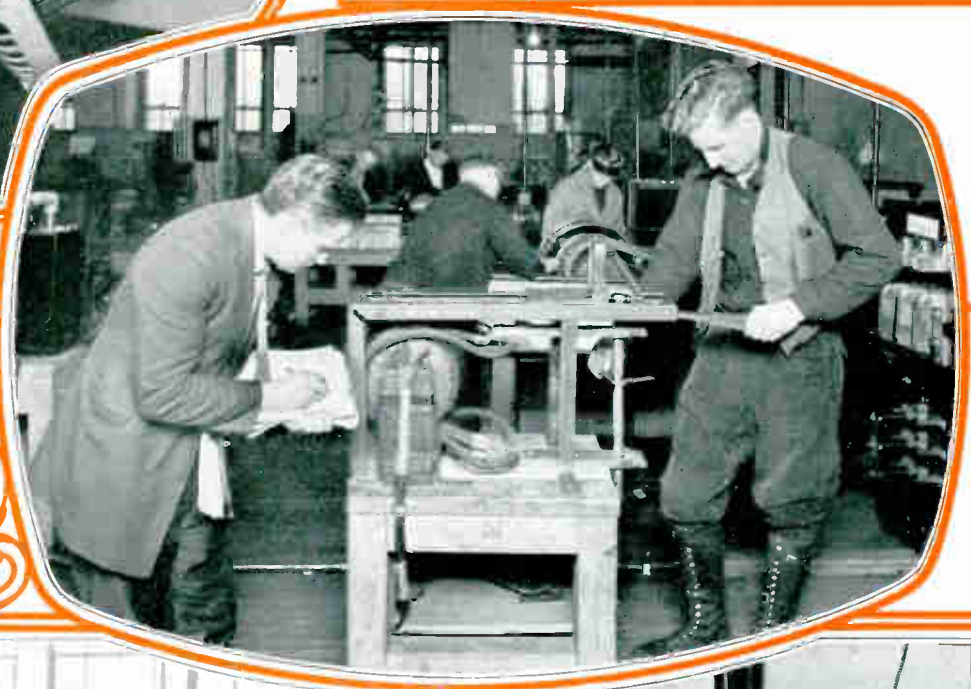
And here we have different types of modern automatic, remote control equipment for A. C. motors. These men are getting thoroughly acquainted with every part of them and their care and operation, by wiring them up and testing them out with the motors.



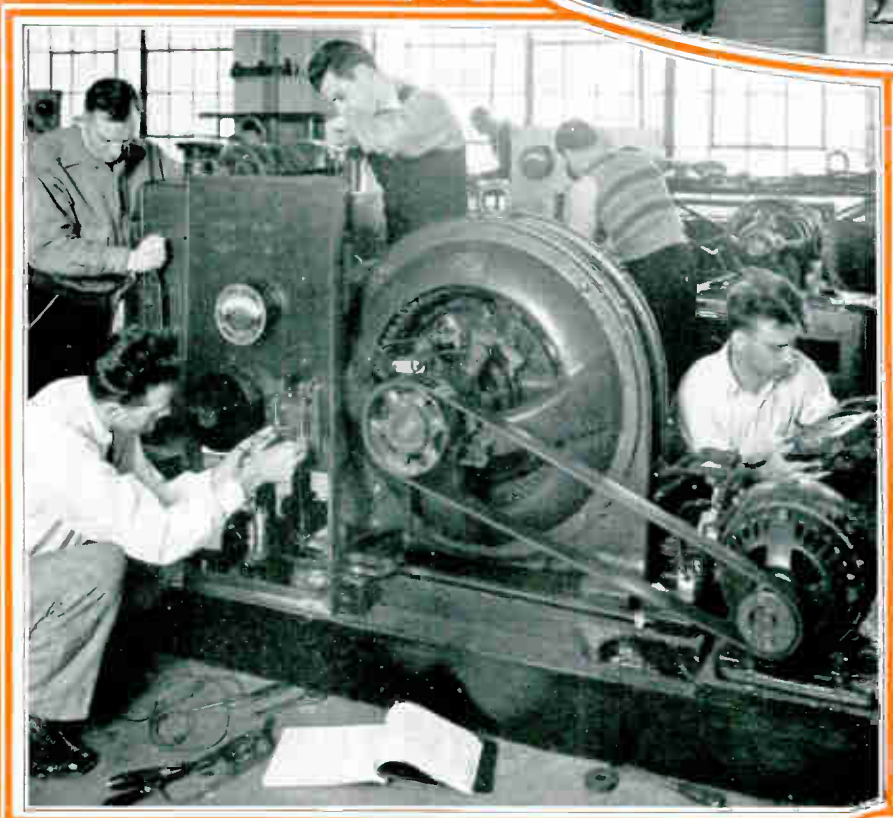
This is an outdoor type substation structure, and these fellows are operating the high tension switches and observing the fuses, choke coils and lightning arresters, and getting thoroughly acquainted with this kind of equipment and its construction and operation.

Real practical work overhauling and repairing on A. C. induction motor. This is the kind of work that makes you sure of yourself when you get out on the job, for when you thoroughly understand all the working parts of a machine you have confidence in yourself

And these men are getting actual operating practice on a large A. C. switchboard. Here they learn the operation and care of meters, circuit breakers and switches, and how to synchronize and operate alternators in parallel and equalize their load. And in this way qualify for the fine positions in A. C. Power plant operating.

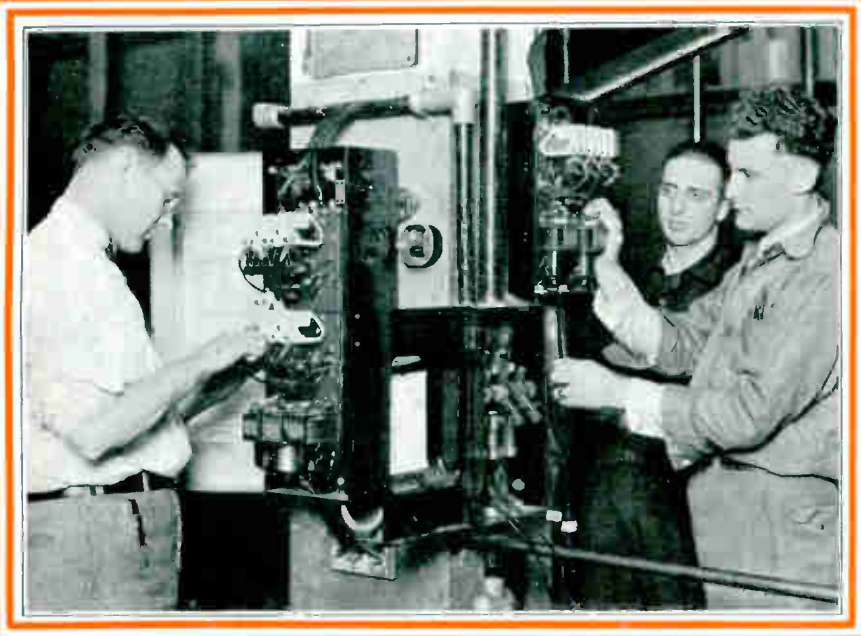


This is an electric spot welder. And these fellows are learning how to operate and take care of such equipment. There are thousands of these machines in use in industrial plants today, and the well trained man must know how to keep them going.

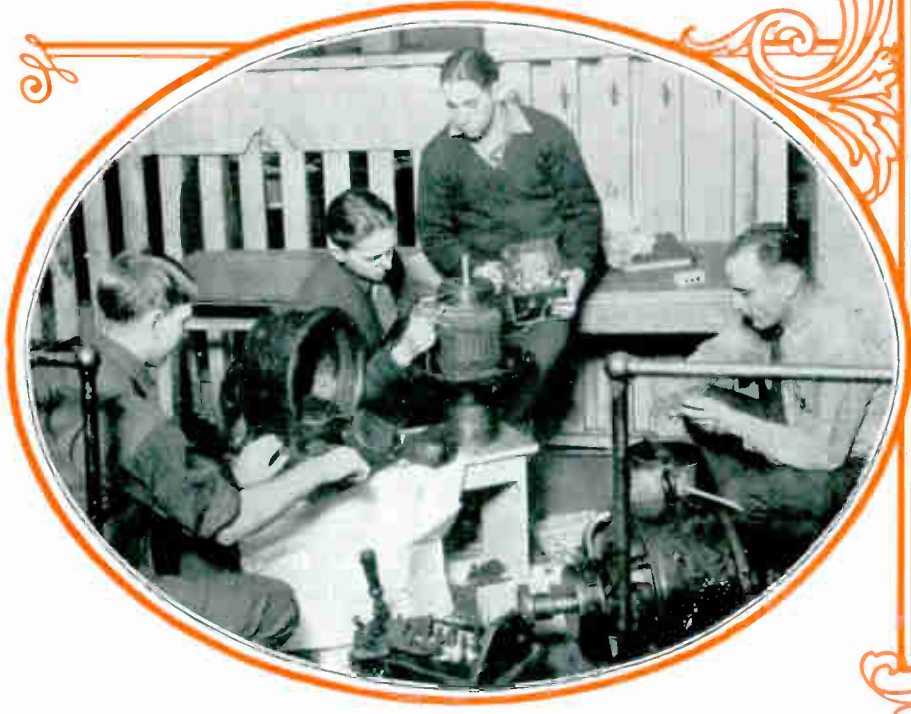


Here you see several of my students connecting, testing, and operating a large synchronous motor, and its exciter generator. This machine is also used for correcting power factor, and every up-to-date, well trained man should know this work well, to qualify for the best jobs.

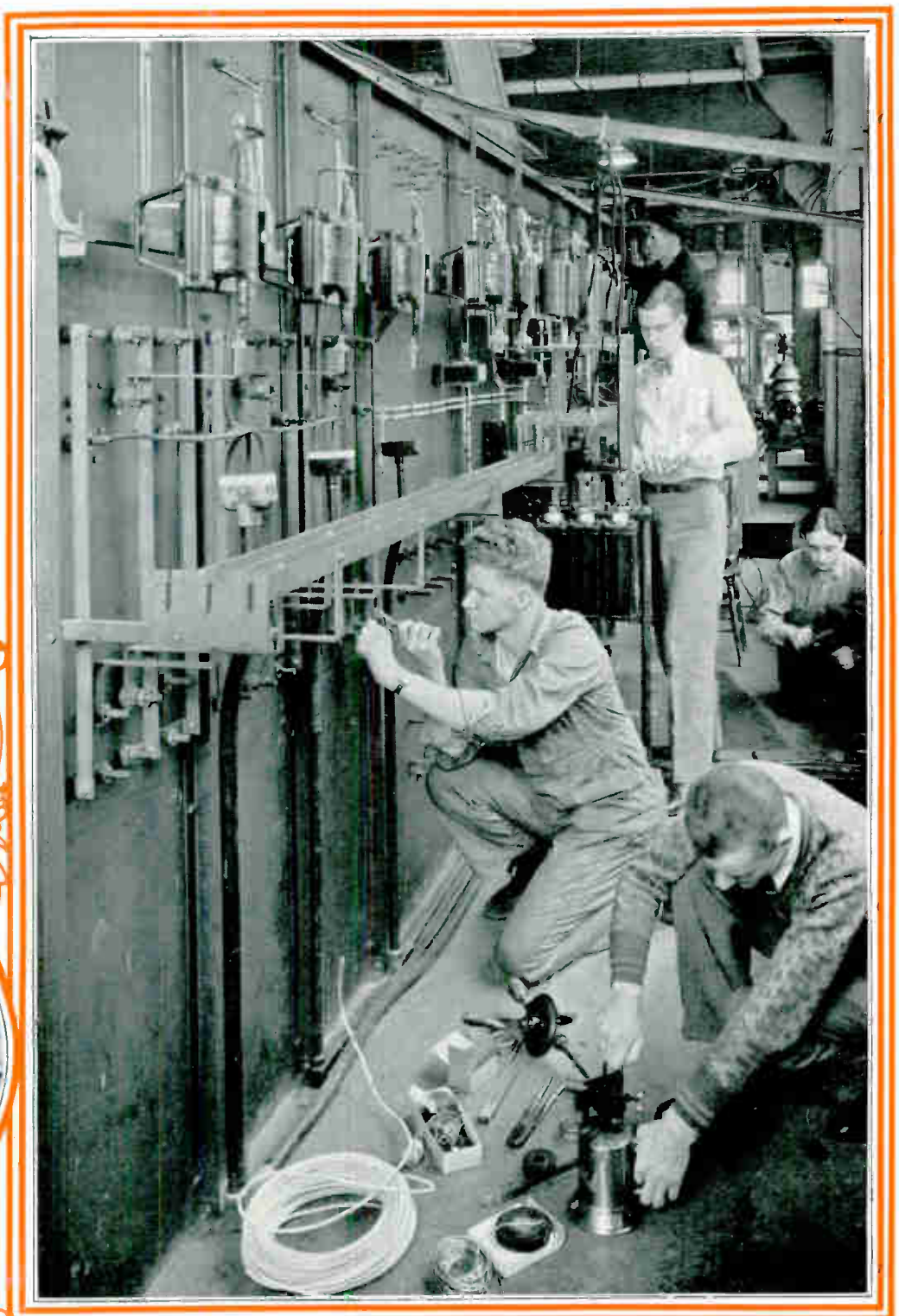
These fellows are connecting up a bank of power transformers for 3 phase operation, in the outdoor type substation in this department.



These fellows are operating a carbon pile A. C. motor starter, and an automatic "cross the line" starter. A good knowledge of these devices is very important, as they are widely used in many industrial plants today.

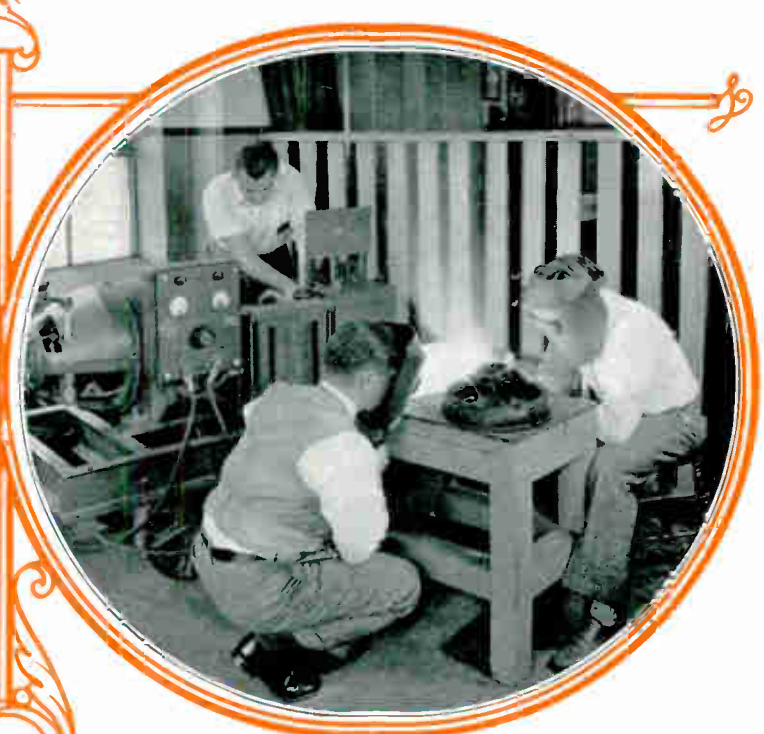


Here is another complete overhaul and repair job on a motor generator. These men are testing the armature with a magneto, and repairing the field coils and brushes.



Here you see several of my students putting additional circuits on the main A. C. switchboard. They are installing bus bars, cables and conduit, and instrument transformers. So you see how my complete training qualifies you for anything that comes up on the job.

And these fellows are doing general trouble shooting and repair on A. C. motors, and building a complete test transformer for high voltage testing of insulation.



These men are learning arc welding and how to operate and maintain welding machines. There are thousands of these machines in use in industrial plants all over the country, and many new jobs at big pay open up every month for skilled men in this line.

Now that You Have Learned Electricity—Let Me Show You How to Apply it to AUTOMOBILES, TRACTORS, FARM LIGHTING PLANTS *and* BATTERIES

NOW that you have covered all departments up to and including alternating current, you need only to apply that electrical knowledge to the work in this department. Each phase of Electrical work you have covered in my general course will help you to easily understand automotive electrical equipment. Then you are qualified to handle electrical work on cars, tractors, etc., in an expert way.

The automotive field offers splendid opportunities to men with practical electrical knowledge who can apply it to the care and repair of ignition, starting and lighting equipment.

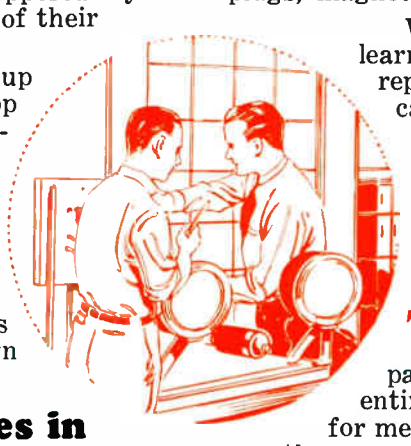
The modern automobile has a complete small power plant of its own, with its electric generator, starter, lights, ignition, horn and numerous other electrical conveniences often added.

The many millions of automobiles, and trucks in daily use in this country need thousands of electrical experts to keep up their electrical equipment. A great many automobile troubles are little electrical faults that can quickly be corrected by a trained electrical man. Every electrical trouble and problem which applies to automobiles has been covered in principle in your general training.

And remember new cars are being turned out by the thousands every day, continually increasing this demand for ignition experts.

This field also offers a fine opportunity to our graduates to start a business of their own.

Many of them have started up an ignition and battery repair shop on very small capital and are today in a very profitable business.



Many of our students find this a very valuable branch to know even though they intend to do other electrical work, for it's always a big satisfaction for a fellow to know he can do his own electrical work on his own car.

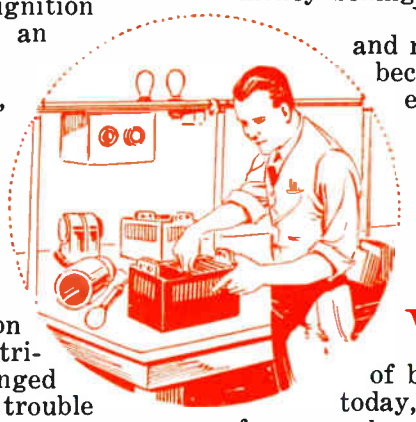
Coyne Specializes in Electricity

COYNE is therefore especially well qualified and equipped to teach you Automotive electricity. When you enter this department you already have a thorough understanding of general electricity, and circuits, generators, motors, trouble shooting, etc. — then you **just easily apply your knowledge to** automotive equipment, with the real practical instruction and equipment I have prepared in this department.

This includes complete cut away engines, which have sections of the cylinders and casings removed so you can see every valve, piston, and part in operation. And even the spark plugs wired and equipped with small flashing lights, which give a wonderful demonstration of the firing order and timing arrangement on such engines.

Complete Equipment and Practical Work

YOU work on a number of complete engines such as the Ford, Chevrolet, Nash Special 6, Packard 8 in line, Paige cutaway, late type Harley Motorcycle, etc., for you to wire, time and operate, and get actual electrical trouble shooting work on real running engines. I also teach you about valves and carburetors and those things so closely linked to ignition in getting proper operation of an engine.



You completely overhaul, test, and repair generators, starting motors, cutouts, coils, condensers and magnetos of different types and get plenty of practice with the proper tools and instruments used in repairing and testing these parts.

Then there are special ignition test benches with complete electrical equipment and wiring as arranged on different cars, for general trouble shooting experience, so you can locate defects in any kind of system out on the job.

You will find your work very easy in this department because of the knowledge you already have of electricity.

In all of these jobs of wiring, timing, trouble shooting and repairing you have the instructor's ever-willing help to make each step clear and answer all your questions.

You recharge magnets, and test spark plugs, magnetos, and various ignition devices.

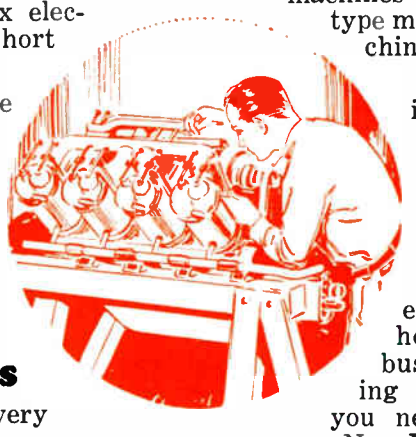
While in this department, you learn how a number of handy test and repair devices are made, which you can later make and use in your own business if you wish.

Good Money In Tractor Ignition Work

THERE are numerous construction companies, oil companies, and even ranches, that use entire fleets of tractors, and pay well for men to keep the **electrical system** of these machines in tune.

That is why we give you plenty of practical work on ignition trouble shooting to prepare you to earn good money in this branch.

There are many localities where this work is very profitable and your work on various types of engines and magnetos in this department enables you to find and fix electrical troubles on tractors in "short order."



Some of our students come from large ranches where they use a number of tractors, trucks, cars, and their own farm lighting plant, just to get this knowledge and practical training to use on these farms and save money and time by always having this equipment running good.

Farm Lighting Plants

HERE is another branch of very profitable work to know.

There are thousands of farms installing these private light and power plants every year.

Many of our graduates are making good money selling, installing, and repairing them. You learn how to adjust, operate and repair these machines very easily because they are so much like the engines and generators you have already worked on.

You Build and Repair Storage Batteries

WITH the millions of cars and trucks, and millions of battery-radio sets in this country today, there is an enormous demand for men who really know battery work and can give first class service in repairing and charging batteries.

Hundreds of our graduates are running their own shops in business for themselves in this line.

In my battery department you learn storage batteries from A to Z.

The instructor thoroughly explains lead plate cells, their parts, how they are constructed and how they operate, also how to test and charge them.

Then you start to build your first complete battery cells.

You melt the lead in a modern electric melting pot, then pour and mold it into posts, straps, and parts for the cells.

Then you get special instruction and work on lead burning with an oxygen and gas flame. This part of battery work is very critical and must be done right. Therefore you are given plenty of personal instruction and actual work on it.

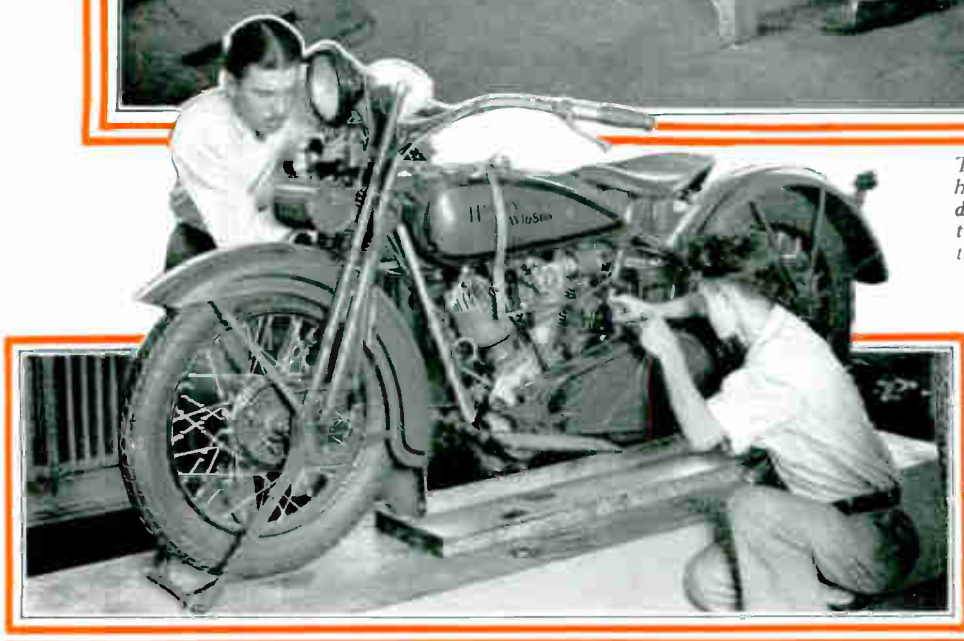
When you have mastered the trick of lead burning on terminals and connections, you assemble the plates and separators into complete cells, seal them in the case, burn on the connectors and mix the acid and water for the electrolyte.

Then you put your battery on charge, and get practical work operating charging lines and machines of the bulb types and the new type motor generator, rapid charger machines.

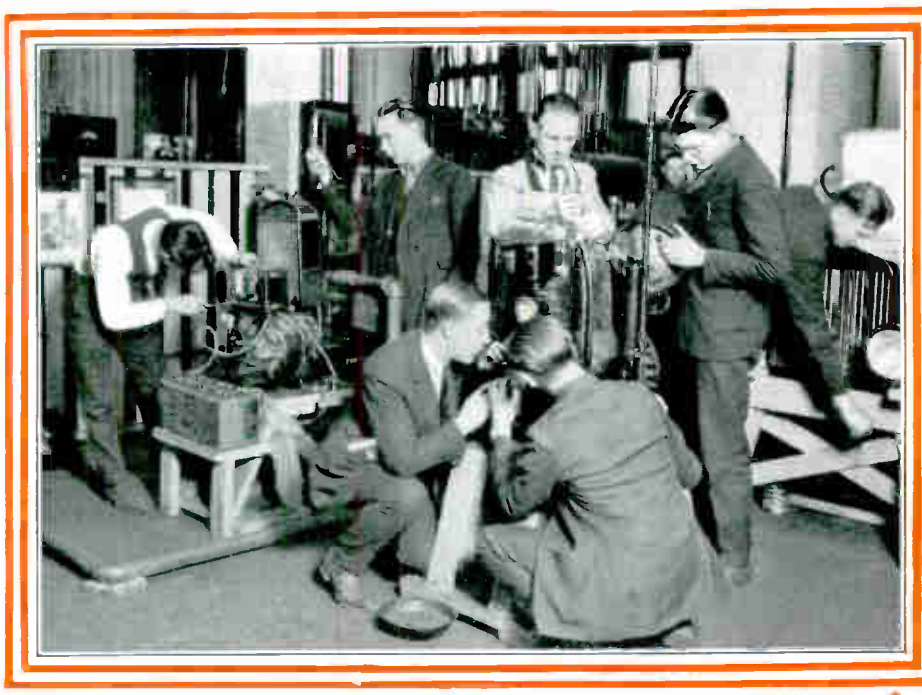
You learn how to test batteries with hydrometers, meters, and up-to-date high rate discharge equipment.

In fact, everything you need to enable you to take charge of battery work for some shop, or run one of your own—even to some practical pointers on how to start, build up and run a business. So you see, I leave nothing undone to give you everything you need to make sure your future success. Now I want you to see this department on the next two pages.

This section of my auto department shows some of the benches where you will overhaul, repair and test many types of generators, starters, ignition coils, magnetos, condensers, etc. You learn to quickly find and fix all their common troubles, and how to use the tools and test meters and devices to simplify this work. There are the things that will make you able to get the good pay jobs, or run a successful repair shop of your own.



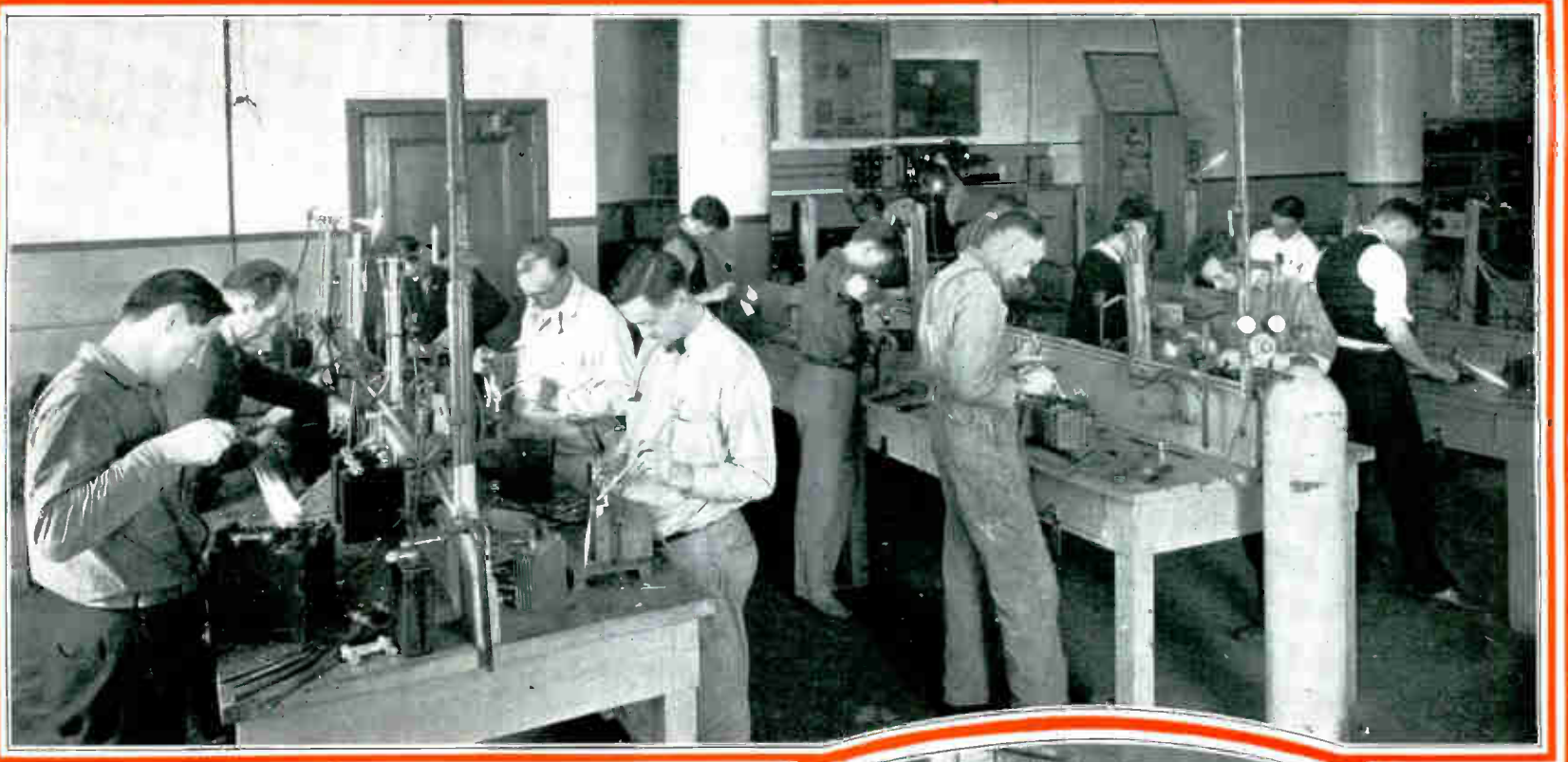
And here is a late model Harley Davidson motorcycle, to give you actual work on care and adjustment of electrical equipment for these machines. When you have adjusted the wiring and timing, you climb on and tune it up with a running test.



These fellows are using modern garage type test benches for giving final running tests to generators and starters they have overhauled and repaired. Your work on such equipment will help you qualify for the real jobs in this line.

These fellows are working on a farm lighting plant. Here you will learn the care and operation of farm lighting plant equipment, and the automatic plant which starts and stops itself as lights are turned on or off. Many of our graduates are making good money selling, installing and servicing such plants.

And here you see a Packard "8 cylinder in line" engine. These men are checking the firing order and connecting ignition wires to the spark plugs properly. Work on such engines as this makes you able to handle the good jobs in ignition work.



Here you see a section of my battery department, and students learning to assemble plates, do lead burning, and assemble complete cells, and batteries. The special training these men get on lead burning is a big help to them in getting good jobs in this line.

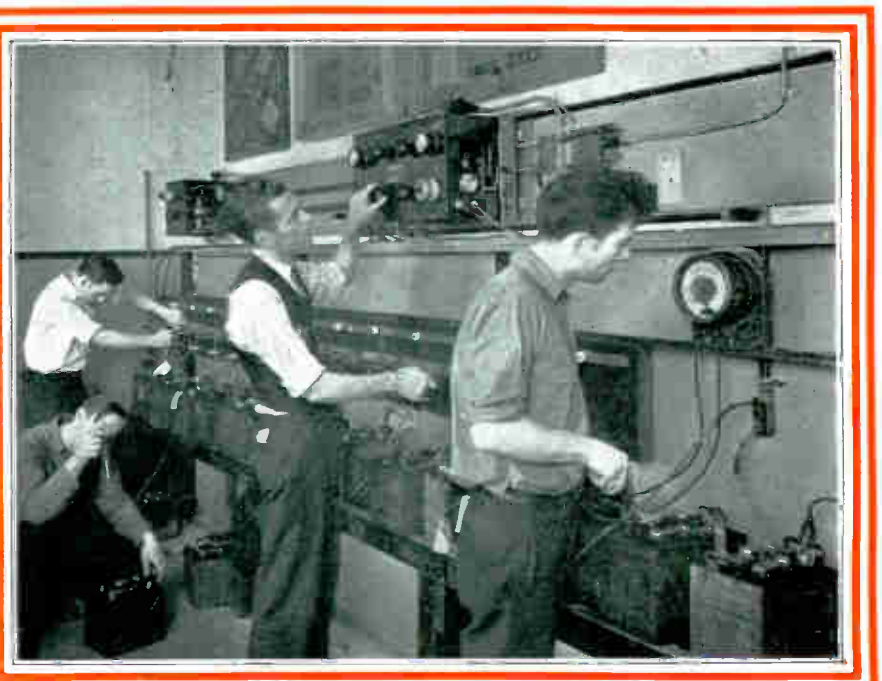
Makes Good Money in Auto Electrical Work

I AM working for a company that has garages all over the city, and handles automotive electrical work. We do all the auto electrical work for the power company and also the city-owned cars and trucks. I work every day, with lots of overtime. I get paid a salary and extra for overtime. I have to hand it to Old Coyne and its instructors for putting me where I am today.

—E. G. SPURBECK, Michigan.

And these fellows are melting lead in a modern electric melting pot, and moulding lead posts and straps for the batteries they are building. This work gives them excellent practice with tools, and modern equipment.

Operating a motor generator rapid charging machine, and testing batteries with a high rate discharge outfit. These are all very valuable jobs to qualify my students for the best jobs, or a business of their own.



And here they are operating the charging line and equipment of the Tungar type. Both the half wave and later type full wave chargers are used here. And you see these men testing the acid, and the voltage to determine the exact condition of the batteries being charged.

And Here Is My Aviation Department

A Great New Opportunity Open to Trained Men in Aviation Electricity

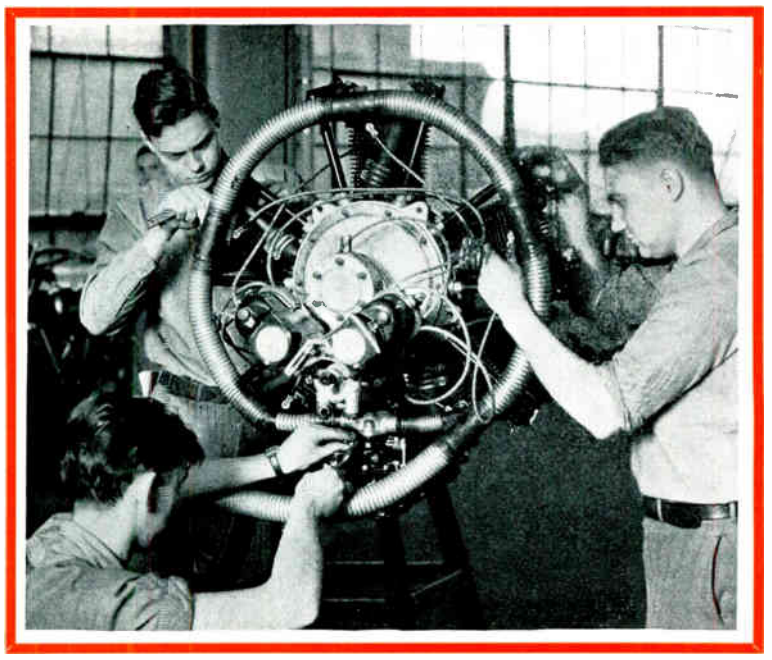
TO make my course complete I have included Electrical training **in this great new field—aviation.** Make no mistake about this—**aviation is here.**

This new field is one that is going ahead by leaps and bounds, and the next few years will see a growth and development such as we have probably never seen in any other industry. There will be thousands of planes used for carrying passengers, mail, express and freight, and who knows but that within the next few years they will be as numerous as automobiles are now?

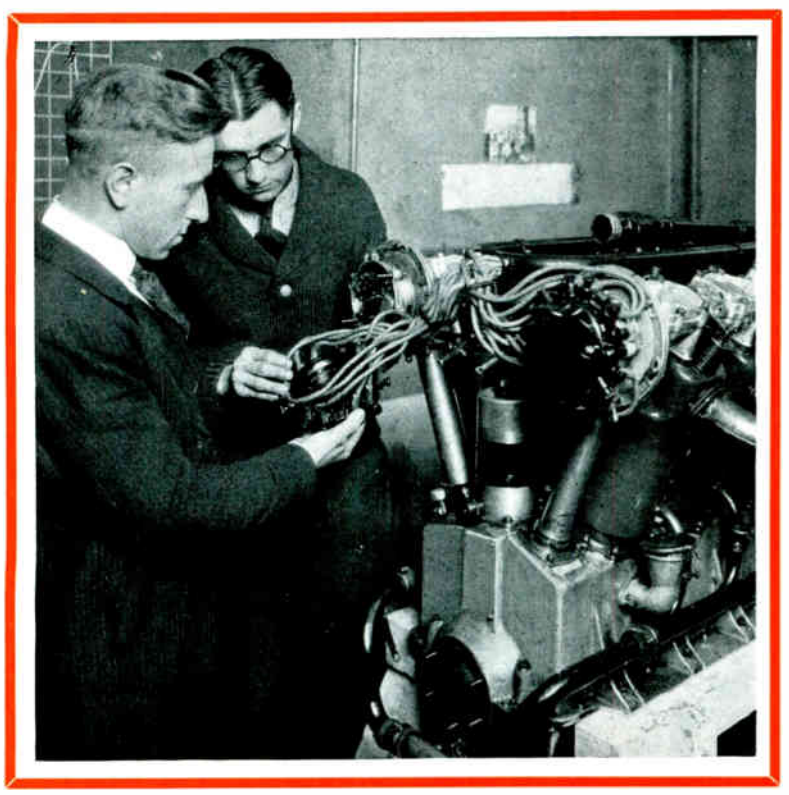
That's why the Trained Electrical Man is so important in airplane manufacturing, and why he is so vitally necessary for servicing work at the big airports.

Aviation is getting bigger and bigger all the time. The depression did not halt its growth. The latest reports show the average number of monthly passengers carried by transport planes was 34,099, as against an average of 28,302 for the same months last year. That's a gain of 20 per cent! But the real growth occurred in air express, where the amount of goods shipped by plane jumped from 20,000 pounds per month last year, to 108,000 pounds per month this year!

So the fellow who is looking for ACTION as well as ADVANCEMENT will make no mistake in considering **Aviation Electricity.**



Here is where you learn the use of the twin magnetos and spark plugs for double ignition on airplane engines. And these men are also learning carburetor and valve adjustment, which of course, are necessary for the proper "tuning" of the motor. There is a great and growing demand for expert ground men to work at the hangars and landing fields, and keep these motors in "tune."



You get personal instruction in aircraft ignition wiring on actual engines, and learn how to apply your electrical knowledge to aircraft work. This is one of the famous Liberty 12 cylinder, 360 horse power engines, on which you get special work in trouble shooting and repair of the ignition wiring and equipment. These men are learning how to locate "distributor troubles" and grounds or short circuits in the wires to the spark plugs. Such practical work as this will help you qualify for the good jobs in this fascinating field.

This development is going to call for skilled experts. Not those with a smattering knowledge of the subject, but those who thoroughly understand **everything** about the engines of these planes. **There will be two distinct branches of this work, electrical and mechanical.**

Each will demand their trained experts who can quickly **prove** themselves thoroughly equipped and trustworthy, and they will, undoubtedly, have to pass the most rigid examination to be able to do this work. It is too important to trust the lives of those who travel in the air to some half trained "tinkerer."

Electricity a Mighty Important Factor in Aviation

THIS new field will call for **specialists,** and who can doubt but that Electricity or the electrical work on airplanes will become the **most important branch of this specialization?**

Every aviator must have the utmost confidence in his electrical equipment, such as his magnetos, his lights and electrical instruments.

You Need More Than Just Aviation Electricity

THAT is why **Coyne** is the place to get your training for this work. We don't train you by simply putting you on this equipment and **trying to teach you this alone.**

No, indeed, it's just as important and probably more so that you be **thoroughly trained** in every branch of Electricity, to qualify for electrical work on airplanes, for all this work is based on general electrical principles. You must know the action of electricity, tracing of circuits, armature work and many other things. Then you need only apply this knowledge to the equipment in **Aviation Electricity** to become thoroughly familiar with this particular equipment. Then you have **received a complete training** and are qualified for this great field, **Aviation Electricity.**

As I said, your general electrical training has now given you the knowledge you need for any branch, so now you apply that knowledge to the equipment in this department.

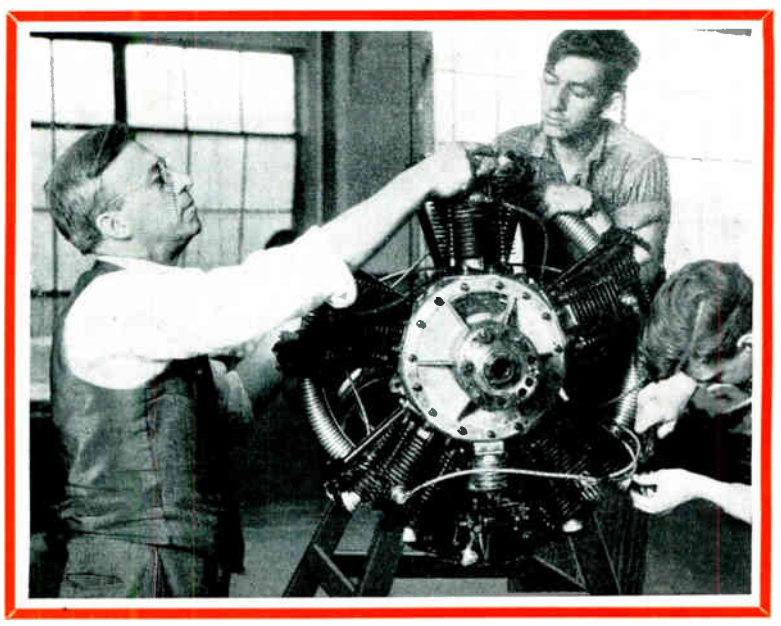
You will be trained on ignition equipment (which means the system of exploding the gas in the cylinders, which produces the power). This training you will get on the very latest radial (or whirlwind motors), as well as on the "V" types of various makes.

You Apply Your Training To Aviation Electricity

THE instructor will give you a complete explanation and demonstration of the entire operation, principles and parts of these engines, and then complete ignition systems. Then you will go to the different types of engines and put the things you have learned into actual practice and operation.

You will get actual experience in wiring, timing and adjusting them, as well as trouble shooting, by systematic testing methods to locate trouble quickly, or faults of any kind in the wiring or electrical parts, right on the engines.

You will get instruction and experience on the different kinds of magnetos, and will learn how to assemble and overhaul them. Your training in this department will cover in a thorough way all electrical work on airplanes, and will fit you for this big, new field. **And by getting it now, you are getting in on the ground floor.**



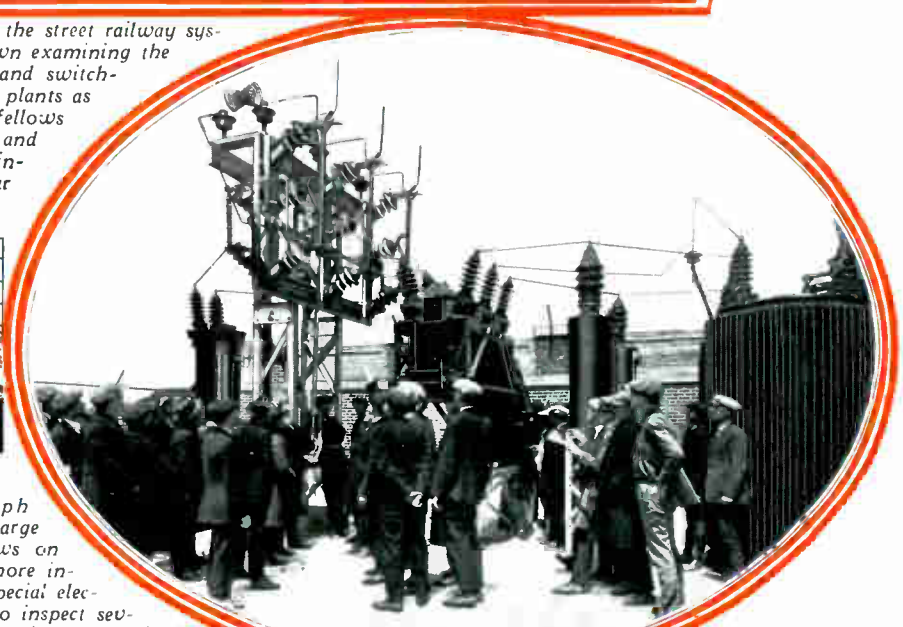
And on this job the instructor is explaining the operation of the valves and timing of a late model Velie, radial aircraft engine. This personal coaching and help of experts makes your work easy and interesting. Then working it out on the actual equipment helps you to remember what you learn.

How Could Any Electrial Training Be Complete Without

INSPECTING the World's Electrical Center?

These Pictures Show Coyne Students on Regular Inspection Trips to Great Power Plants around Chicago

This is an automatic substation of the street railway systems, and the fellows are shown examining the 2000 K. W. converter, and switchboard. Trips to such plants as these inspire the fellows to work harder and are intensely interesting to our students.

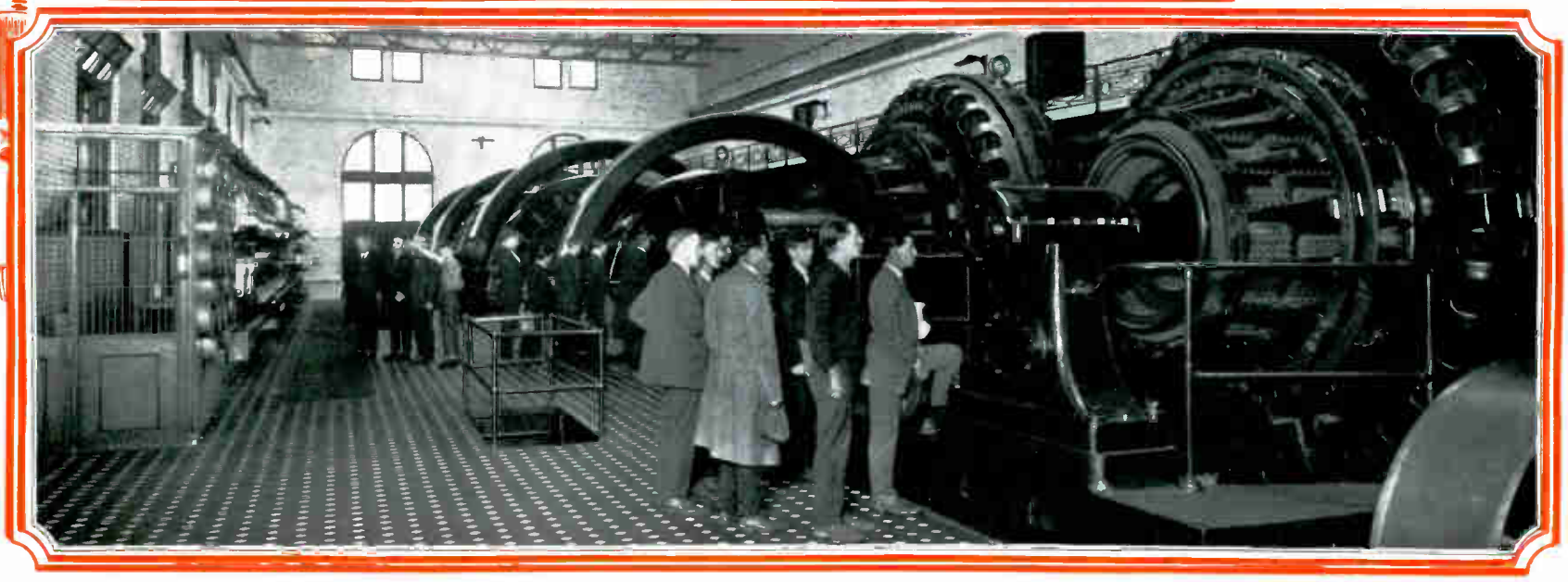


The photograph below shows a large group of the fellows on our regular North Shore inspection trip, and the special electric train that takes them to inspect several late type automatic substations and the Great Lakes Naval Aviation Station.

Above is a photo of students examining one of the famous Wright whirlwind motors at the great municipal aviation field. This shows them the use and application of the ignition experience they get in my airplane ignition department.

The oval picture above is of an outdoor substation and these fellows are examining the oil switches, lightning arresters and transformers, with instructors along to explain every part. Trips like this are of great value as a supplement to your Coyne training.

The picture to the right shows a group of students inspecting the generators and mammoth switchboard in one of the largest private power plants in the world, at Sears, Roebuck & Company.



Now Let Me Answer Two Important Questions:

First, ... "DOES COYNE HAVE A CORRESPONDENCE COURSE?"

QUITE often I am asked this question, and when I answer "No," then I'm usually asked "Why not?" So I'm going to tell you very frankly just why **Coyne** has never attempted to teach Electricity by Correspondence.

We all know there are some subjects that can be taught very satisfactorily by mail. Take, for instance, the study of Law or Accounting. I'm quite sure that courses in these subjects could do much for a fellow, because, after all, law and accounting are mainly matters of book knowledge.

But take a mechanical subject like Electricity. Can you imagine a fellow learning how to repair a motor or wind an armature by simply studying books or lessons? No matter how much he might learn by correspondence about principles of motors and armatures, in my opinion he would have to have actual experience to be able to actually do the job.

Some Things Can Only Be Learned by Actual Work

YOU can learn how to read and write from books or lessons, but imagine a fellow trying to learn how to play baseball that way! Some things can only be learned by actual practice and experience and I'm sure you'll agree with me that Electricity is one of them.

Suppose **you** owned a big factory using electric motors and needed an electrical man to service and operate them. Would **you** take a chance on a fellow who had gotten all of his knowledge from books or lessons? Would **you** employ such a man to wire **your** house, to work on the ignition of **your** car? I don't believe you would do that any sooner than you would call in a Correspondence School Doctor to remove your appendix or a Correspondence School Dentist to fill your tooth!

Why We Don't Teach by Correspondence

I RECKON I have been asked a thousand times—"Why don't you start a Home Study Course in Electricity?" I could, no doubt, make a lot of money by doing so, much more than I can ever hope to make through my practical Shop Training.

But I don't believe that Electricity can be successfully taught that way and I would not take a fellow's money for something I could not believe in myself.

That's why we don't teach by correspondence and never will, regardless of how much money I could make. I don't just give you the theory and then expect you to get your practice and experience at the expense of your employers or customers. I train you on one of the greatest outlays of electrical machinery and equipment in any school in America and give you, right here in my shops, all the actual practice and experience you'll need.

All Practical Work at Coyne

FOR example, when you get out in the field and are called upon to wind your first armature, repair your first motor or wire your first house, you won't dig through some lesson or book to find out how it's done—**you'll just go right ahead and do it, in exactly the same way that you did a similar job while here at school.** It won't be a strange job to you. There won't be anything puzzling or difficult about it. **It will be a job like you have already done many times here at COYNE, where your work was checked by an Expert Instructor, who would not pass it unless it were right.**

So don't let anyone tell you that you can get a training by just books or lessons that even approaches the training you get here at **Coyne on actual electrical equipment.** Hundreds of fellows come to me every year who have tried to learn that way, but who soon discovered that the only **right** way was by **actual, practical experience.**

There is an old saying that a picture is worth 10,000 words. We improve on this and say—**actually doing a job is worth 10,000 pictures of how it should be done.** Think this over, my friend, and you can't help but agree that there's only one way to get a **practical** electrical training and that is the **Coyne** way—**by actual electrical work on actual electrical equipment.** No amount of book or lesson study can ever replace actual practice and experience.

Second, ... "CAN I LEARN ELECTRICITY OUT ON THE JOB?"

SOMETIMES a fellow thinks he can learn electricity by apprenticeship—taking a job in some electrical concern.

Well, now, let's see if this can be done. A fellow goes to work for some electrical company, starts in on some very simple job. Perhaps he learns all there is to know about this job in one week. Is he then put on another job? No, sir! He is kept doing this for months, maybe even years—and at the end of a year he has learned just about as much about electricity as he could learn at **Coyne** in one or two weeks.

You see, when you are working for an employer, you are kept busy on one particular job and haven't time to learn about all the other jobs and work in the plant.

You Must Know All Branches

AT the very most, all you can hope to learn on any one job is just one particular branch of the electrical industry. While to advance in electricity and make a success, you must know more than just one or two branches. Electricity is so closely related that every branch dovetails into the other.

For instance—take motor work. To handle motor installation and maintenance you must know wiring, which comes under electrical construction. Then you must know armatures and stators and how to rewind or repair them if they get out of order.

No man can call himself an Expert nor can he hope to ever get very far, if he isn't thoroughly familiar with several important branches of Electricity and how each leads into another.

Training Brings More and Bigger Opportunities

Suppose a young fellow is working in a power plant operating a switchboard. The Chief Electrician quits. If the young fellow is a **trained** electrician, he can step right into the Chief's job and get the big money he was making. On the other hand, suppose the young fellow is simply an untrained electrical worker. What on earth would he know about operating a power plant? How could he step into the Chief's job? All he knows is how to operate a switchboard—nothing else. He wouldn't have a ghost of a show for advancement.

Any man who hopes to be able **to take charge** of operating or maintaining electrical equipment in a power plant or factory, must know many other branches of Electricity.

Only the Trained Man Gets Trained Man's Pay

A LOT of fellows working for electrical concerns, wiring switchboards, winding coils or doing some other routine work, call themselves "electricians." But they are really no more electricians than is the water boy of the team a foot-ball player. The real electrician—**the Trained Man**—the fellow who is making his $50, $60 or more a week—is the man who has been thoroughly **trained** in all the branches of electrical work and who is qualified to handle **any** job in **any** branch in an **expert** manner.

No, my friend, you can't get a **practical** electrical training by correspondence, nor can you learn electricity out on the job. **There is just one right way to learn the electrical trade—and that is the COYNE way—by actual electrical work, under expert instructors, on actual electrical machinery and equipment.**

HOW COYNE TRAINING AND COYNE GET A GOOD JOB

Opportunities are Waiting in Every Branch of the Electrical Industry-Here are Just a Few of Them

EMPLOYERS know that when you finish Coyne Training, you are all set and ready to go! Stored away in your brain are the practical facts about Electricity in its many branches. You have a right to feel confident—for you aren't getting into an unknown field. Here at Coyne you've actually had REAL ELECTRICAL EXPERIENCE.

I've shown you how this experience is given you in my shops. I've shown you how you do the work itself, not by looking at electrical machinery or reading about it, but by OPERATING that equipment—by being right on the inside of a big, busy electrical plant.

And next comes the vast field of Electricity itself. You'll appreciate the wonderful opportunities more and more as you go along, of course, but right here I want to give you a very brief idea of some of the outstanding branches of the Electrical Industry and what they will hold for you as a Coyne Trained Man.

HOUSE WIRING The present number of houses being wired is about 100,000 a year—a huge number to be sure. But authorities say that this is less than one-third of those that should be wired—that we will soon see an increase to over 350,000 a year. As this branch triples in size, its opportunities will triple also!

ELECTRIC SIGNS There are hundreds of thousands of electric signs now in use which are out-of-date and ready for replacement. This means a big demand for trained men in sign factories, installation and maintenance crews. It's well-paid, enjoyable work, and my course qualifies you for its many possibilities.

ARMATURE AND MOTOR WORK With all manufacturers turning to electric motors for power, and discarding old-fashioned steam or gasoline eqquipment, the future in this branch of Electricity is bound to grow greater. Coyne trains you for jobs as Armature Winder, Motor Serviceman, etc. Many of my graduates are in business for themselves in this big, prosperous branch.

POWER PLANT WORK The great power plants must be kept humming day and night, year in and year out, because millions of homes and factories depend upon Electricity. Power Plant Work provides some of the steadiest, most dependable, interesting and good paying jobs of any trade or industry known. Coyne Graduates are today filling positions as Operators, Superintendents, Line Maintenance Foremen, Substation Operators, etc., in leading plants.

ELECTRICAL MAINTENANCE The job of Chief Electrician of a big factory is a mighty responsible one, with often hundreds of motors, all wiring and electrical equipment to look after. The new developments, such as Electric Welding, Electric Furnaces and Ovens, Photo-Electric Cell Controls, etc., mean that the man trained by the latest, most up-to-date methods naturally has the preference. That's why Coyne Graduates get the call in Electrical Maintenance!

ELECTRICAL MANUFACTURING Thousands of mammoth factories are busy the year around, turning out electrical equipment for power plants, telephone systems, and all industries using Electricity in any form. There are innumerable good jobs in this field—jobs that only trained men can handle.

AUTO ELECTRICITY The Battery and Ignition specialist is the "head man" in any garage or service station, for 7 out of every 10 auto repair jobs are electrical. So there's always a welcome for men who know this branch of Electricity. Big corporations employ their own Auto Electrical man for their fleets of trucks, busses and tractors. Many Coyne Graduates report fine earnings in this branch.

AVIATION ELECTRICITY I've already told you, on page 31, of some of the thrilling opportunities in this new, growing branch of Electricity.

MINING ELECTRICITY Since 95% of mining operations can be handled electricially, at much less cost and greater speed, the mining industry is going in for Electricity in a big way. Everything you learn at Coyne will prove of value in holding down a job as Chief Electrician of a big mine.

ELECTRICITY IN RAILROADING With only 7,000 miles of railroad now protected by continuous control signal apparatus, you can realize the immense future in this work. Train control is a most exciting branch of Electricity. Another wonderful opportunity exists in connection with complete electrification of railroads—on which the leading systems are now spending hundreds of millions of dollars. Good-paying jobs by the thousands are opening up to men with practical electrical training in railroading.

MARINE ELECTRICITY Every important ship is provided with a complete electric power and light system of its own. Some big ships have from 6 to 20 electricians on the payroll. It is estimated that there are at least 100,000 electrical jobs aboard ships. These jobs carry a good salary and all expenses, and enable a fellow to see the world at first hand.

PART TIME WORK WHILE AT COYNE
—if You Need It to Help Meet Expenses
READ WHAT THESE GRADUATES SAY!

Coyne does its utmost to help its students find jobs. I picked up one that paid all my expenses while attending school. There is nothing Coyne will not do to help a fellow.—D. H. DAWSON, Oklahoma.

When I attended Coyne I worked at the American Railway Express after supper. That was how I made money to pay my room and board. The Company paid me $18.00 to $22.00 a week, which was more than enough for all my living expenses.—C. J. CORNILS, Iowa.

As to part time work, when I was in Chicago a year ago, everyone was talking about unemployment, but many of the students were making all or part of their expenses by part-time work.—RALPH BYRKIT, Nebraska.

I did not need any spare-time work but my roommate did and he got it. Coyne has numerous ways of furnishing work, and I feel most certain you can bank on their giving you part time employment if they promise to do so, as I know their word is as good as gold.—DAVID BAROUSSE, Louisiana.

I worked my way through Coyne, as I only had $3.17 when I arrived in Chicago, and believe me, I had to have work and I got it. And it was good old Coyne that got it for me. My job today is also due directly to Coyne Employment Service.—LEON GODARD, Colorado.

Coyne Employment Service is very good. I had part-time work all the time I was in school, and when I finished the Course I had work as soon as I received my diploma.—WALLACE WALTERS, Indiana.

It wasn't necessary for me to work my way through school but I knew a great many students who were working at jobs that the Coyne Employment Department obtained for them, to get part-time earnings, and I am sure they will do the same for anyone.—ELDON CARTWRIGHT, Iowa.

Mr. Lewis, I can't thank you enough for the spare-time work I got at school. I earned $160.00, which was a big help. I'm still with the —— Power Co. There hasn't been a single layoff or salary cut in this district. Have been here two years with several raises and wouldn't take anything for my Coyne Training.—HERMAN ECK, Alabama.

Due to the help of Coyne's fine Employment Department, I secured an outside job while studying, that paid me 55c an hour. This enabled me to pay living expenses easily.—R. B. UMBARGER, Tennessee.

While I was at Coyne, the Employment Department secured spare-time work by which I earned my living expenses while there, and again after I left Coyne they found employment for me.—M. M. KNIGHT, Indiana.

Employers say: "Send Us MORE COYNE GRADUATES!"

"Your letter explaining your school and the service which you render in sending out men for work, received. We expect to commence work on the transmission line sometime after the first of October, and will then be taking on some men. . . . If you have any of your students residing in this district who might be interested in getting on, we would be pleased to talk to them." (From a Western Power Concern.)

"It is very possible that we might have use for properly qualified graduates from time to time. You may rest assured that your service will be kept in mind, and in the event that we are in need of engineers, we will be glad to get in touch with you." (From a New York Technical Concern.)

"We would be pleased to have the names of your graduates in this state because dealers often ask us where they can get a good service man. We would also appreciate your advising us of the names of graduates from time to time as they are issued diplomas from your school." (From a Pacific Northwest Wholesaler.)

"As you have probably heard, we are doing quite a bit of construction work at present and are using trained men on this work. From time to time, we need additional men. It would be worth your while, I think, for you to refer anyone living in this vicinity to me for an interview." (From the Employment Manager of a Power Company.)

"I want to assure you that due consideration will be given every applicant you refer to us. We are interested right now in a competent man or two who knows the trade thoroughly. We would also be interested in an assistant shop manager to help our regular foreman." (From a Big Southern Manufacturer.)

"The achievements of the Coyne Electrical School in the development of qualified material for the many phases of the electrical industry, engineering, design, production, distribution and selling, are recognized factors by all of those associated with the industry. Certainly, no industry offers a more promising future for intelligent application of the things your institution teaches, than does the electrical industry." (From the Regional Sales Manager of a world-famous Electrical Manufacturer.)

"Coyne School is filling a most important place in the electrical industry, and its value cannot be overestimated. Your methods of teaching, your splendid equipment, and your personnel are well in keeping with an industry which is advancing with such tremendous strides as we are witnessing in electricity. I envy the man who has the opportunity of studying in Coyne School." (From the President of a Middle West Electrical Supply Firm.)

"It has been my pleasure to see some of your students enter our employ and make good. It seems that the graduates of the Coyne Electrical School are peculiarly fitted to make progress in the electrical industry." (From the Division Manager of a Chicago Electrical Supply House.)

(The originals of these letters are in our files here at Coyne.)

EMPLOYMENT SERVICE WILL HELP YOU IN ELECTRICITY!

Here's The COYNE EMPLOYMENT DEPARTMENT — IN ACTION!

At the left you see the staff of the Coyne Employment Department in action—following up leads for Coyne graduates, keeping track of new Electrical developments that mean good jobs, and maintaining our many valuable contacts with big employers of trained Electrical men. At the right, a student coming in to discuss individual opportunities with my employment manager before he graduates. This is the kind of personal service that gets results!

You Can Expect REAL RESULTS from This World-Wide, Lifetime, Job-Locating Service-FREE to Coyne Graduates!

YOU as a prospective student naturally are interested in what you will be doing after you finish Coyne. That's the very reason you are considering this training, isn't it—to be certain of a good job at good pay, now and in the years to come.

So Coyne Training would not be complete without an Employment Service that **actually produces results.** That is why I maintain an honest-to-goodness job-locating and job-getting department for my graduates, even though I have never given any student a guarantee of a job. I give you this service without any extra cost, when you complete my training. It is yours to use—FREE—whenever you want or need it!

Yes, We are Getting Good Jobs for Coyne Graduates— Right Now!

YOU know it isn't easy for an untrained man to get a job now. BUT—Coyne Graduates have something to offer that big employers demand. That "something" is a practical shop training in the many branches of Electricity. And as I told you at the start, the way Electricity is growing and expanding today, new opportunities are constantly opening up, for **men with training.**

I have on my desk, as I write, ACTUAL PROOF that Coyne is getting jobs for many graduates, **right now!** I have letters from recent graduates, lots of them, thanking me for landing them in good positions WITHIN TWO DAYS TO A WEEK AFTER THEY FINISH THIS COURSE. I get also, letters from big manufacturing concerns asking me to send them Coyne Trained Men for jobs that are now waiting!

Coyne Employment Service Has Stood the Test of 4 Big Depressions!

WE had "hard times" back in 1907 and 1908. We had a severe depression in 1913 and 1914. Then right after the war, we had another one, in 1921 and 1922. So the depression of 1930-1932 is no new experience to Coyne. But here's the important thing. Coyne came through EVERY ONE of those depressions with flying colors! Coyne Employment Service kept right on working, producing results, even when jobs were scarcest!

So don't let this talk of unemployment and hard times cheat you out of the training you need! Don't let so-called "friends" argue you into passing up the biggest chance you will ever have!

A famous business man said: "The foundation of every big fortune was laid **during a depression.**" So, too, the fellows who get their training **now** will lay a foundation of success that will endure for a lifetime. The immense opportunities of the future in Electricity will be grasped by **men who are ready for them.**

Get your Coyne Training at once, let my employment department help you to locate a good job, and NOTHING SHOULD STOP YOU FROM CLIMBING TO THE TOP!

How We Learn When and Where Trained Men are Being Hired

OUR employment department is in touch with concerns in different parts of the country. Other valuable leads come to us through the leading technical and trade magazines, and through "tips" from Coyne graduates who learn of openings in their own or other firms, or who are leaving their own job for a better one. In addition, Coyne has wonderful contacts all through the Electrical Industry, built up over a period of 34 years. Many requests reach us direct from employers, many of whom already have Coyne graduates on their payrolls and want more like them! All this information means just one thing—JOBS for my graduates!

Individual, Personal, Practical Help as Often as You Want It

WE don't wait until you have completed your Coyne Training to put this amazingly efficient Job help to work in your behalf. If you will tell my Employment Manager where you'd like to locate, and what line interests you most, he will get busy on your case while you are still a student here. This of course helps him to help you better, since this gives him time to develop good leads for you.

Coyne Employment Service is individual and personal. It is fitted to **your requirements** and your desires. It has helped hundreds and hundreds of my students to get the kind of jobs they could be proud of. Let it help you!

JUST A FEW OF MANY WHO GOT REAL JOBS WHEN THEY FINISHED

—through My Efficient Employment Service

THESE GRADUATES' LETTERS PROVE IT!

I have just been employed at the —— Service as a Commercial Motor Man by your help and recommendation. I thank you for your help in getting me this job for it will pay wonderfully as I work up. — ANCEL HAMMOND, Tennesee.

The letter from Coyne telling me of this better job helped me to locate here. I am working with this big power company at their generating station, with every chance of promotion. — F. O. BUSHA, Oklahoma.

I am on the job every day as Substation Operator. It was very thoughtful of Mr. Lewis to recommend me to the —— Company, but everything is fine here, so thanks just the same. — ROY WHISENANT, North Carolina.

When I enrolled at Coyne I knew absolutely nothing about Electricity. Today I hold the job of Wiring Inspector at $300.00 a month, all expenses and car furnished. Coyne gets all the credit. I am enclosing information about a new electrical project in this neighborhood, in case any graduates are interested.—J. C. OMER, Missouri.

Please accept my thanks for assisting me to locate this splendid position. Your cooperation was much greater than I expected. I'll always speak a good word for Coyne, and the Employment Service in particular.—J. L. FOSS, Illinois.

Through your recommendation I have been successful in finding work, with the —— Electric Co. They make switchboards. I am in the wiring room, wiring switchboards. The man who hired me said they had two other Coyne men on the road for this firm.—CARL MUNTIS, Ohio.

I got my job through one of your Employment leads, and find my work the most interesting I've ever done. Coyne Training is the most wonderful asset that any fellow dealing with Electricity can have. — STANLEY O. CARROLL, Massachusetts.

I shall thank you for the Employment service you have given me, Mr. Lewis. I am thoroughly satisfied with my work and earnings.—JOHN ZERR, Kansas.

I am in the Substation Department of the —— Power & Light Co. Thanks to your leads, this place was the first call I made, and I received the job at once.—EARL OTT, Ohio.

Your letter of recommendation got me the job as second electrician, and I am now in line for an even better position.—R. W. KOCH, Oklahoma.

The job that Coyne secured for me is all that one could ask for. A Coyne Trained Man can hold his own with the average electrician with 10 years' experience.—STEPHEN J. CSEH, Pennsylvania.

GO INTO BUSINESS FOR YOURSELF
And Be Independent As Your Own Boss

NOT only does Electricity offer you your choice of scores of fascinating, Big Pay positions, but Electricity offers you the greatest opportunity I know of to go into business for yourself and be your own boss.

Many of my graduates have started out with just a few dollars as capital and established an Electrical business of their own that is now paying them a handsome income every year—and you should do the same.

Here's How Joe Glenn Did It

TAKE Joe Glenn of Macon, Illinois, for example. When Joe graduated, I offered him a good job with an electrical manufacturer, but Joe said "no," he was going back home and start his own electrical business.

Joe didn't have enough money to rent a shop but he fixed up one in his basement and started out looking for business. First, he got a a few electrical appliances to repair—electric irons, vacuum cleaners, washing machines, etc. Then he dug up some prospects for new electrical fixtures and new outlets. Soon he was wiring houses. Then he began to go after auto ignition work, battery charging and repairing, servicing radio sets and electric stoves and refrigerators. The money began to roll in. He bought a big piece of ground, built a large garage and electric shop and soon had all the business that he could handle.

Now Joe is independent for life. His yearly business has amounted to as much as $15,000! **And just a few years ago Joe was a student here at COYNE, working in his spare time to help pay his room and board!**

And Joe is no exception! Electricity offers **you** the very same opportunity to start your own business and be your own boss.

I Will Help You

I WILL show you just how to start your own business—how to get the work—how to do it—what to charge, etc. In fact, my Course is so arranged that you actually do this work right here in the **Coyne** Shops. You get actual practice, actual experience—**right here**—on the same kind of jobs that you will be called upon to do if you start an electrical business of your own.

And then, even after you have finished school and actually started out as your own boss, **Coyne will still help you.** You will be free to call on us for help and advice as long as you live, **at absolutely no cost to you.** We will help you in buying your supplies, in getting lined up with the best manufacturers, in preparing any literature or advertising you may want to use, etc. **We will stand by you and back you up—forever!**

Read the letters below from just a few of the many successful **Coyne** Business Men. **What they are doing should do—if you'll only let me help you.**

Earn Money in Your Spare Time

THEN even if you don't want to go into business for yourself—if you prefer a full-time salary job—still you can often add $20 to $25 a week to your regular salary **in spare time electrical work alone,** installing door bells and other electrical fixtures, repairing various electrical appliances, servicing radios, charging batteries, wiring houses, etc. You can do a lot of this kind of work on Saturday afternoons and in the evening, when your regular work is done. **And you can often make $1.50 to $2.00 an hour for this work.**

So whether you want a full time electrical job alone; or a full time electrical job with spare time electrical work on the side; or whether you prefer to go into business for yourself and be your own boss—you will find that your **Coyne** Training is exactly what you will need to be a big success. You will be fully qualified to fill any one of thousands of good electrical jobs that are open, or to go into business for yourself as your own boss. **You will be a thoroughly trained Electrical Man—with practical training in all important branches of Electrical Work.**

We have been training men for Big Pay in Electricity since 1899, and we know just what you need to be a big success. We give you that training in 12 short, snappy weeks, and then we stand by you all through your Big Pay Career!

THESE COYNE GRADUATES ARE DOING IT—SO CAN YOU!

Business Thriving in Spite of Hard Times

Everyone around here talks hard times, but in my business I have never had a summer with so much work to do as I have this year, and so far the outlook is fine. I have one of your graduates, William Fitch, working with me. I am sending you some pictures of the big hotel we have just finished wiring, also a hospital that was one of our recent jobs.—EDWARD K. WHITCOMB, New Hampshire.

Makes $169.40 in First 10 Days of Business

Although I requested Employment Service when I graduated, I decided to go in for myself instead. This I did, and in the first 10 days I wired two old houses that have netted me $169.40. I have contracts on three more, and still they come.

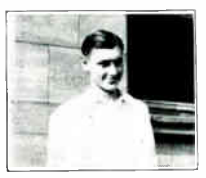
I think that is doing pretty good for a man who never strung a wire before. Thanks to Old Coyne!—J. D. McCORMICK, Iowa.

Always Has Work Ahead in Motor Repair Shop

I want to express my appreciation of the training I got at Coyne. I benefited by it in many ways and at the same time enjoyed every minute of the course.

I have my own business—battery, ignition, wiring and Radio, and agency for Fairbanks-Morse power plants. All during the depression I have been just as busy as I could be. I have never had my work caught up or waited for work in the six years I've been in business for myself—ANSON BOWES, Ontario.

Two Coyne Partners Say Things are Booming



I came here and went into partnership with another former Coyne student. It seems at this time that we are going to be very successful.

We have several contracts for wiring houses. We handle Radios and Electrical Supplies, and the electrical business is speeding up every day. With the thorough training that we have had at Coyne, we are able to handle any electrical problem.—ROY CLEARY, Texas.

Over 40 Years Old—Builds Successful Electrical Business

I was above 40 when I graduated, but after working a while for a local electrical contractor, decided to go in business for myself. I set out at once to wire houses, and last month my business amounted to $437.00—not so bad for just getting started. There is much work in sight.

One of the men whose home I wired was on the School Board here, and he was so pleased with my work he gave me the job of wiring the school building. This amounted to $222.00, and this Fall I am to wire the second floor, which will be $150.00 more. I feel very grateful toward Coyne for my training.—C. L. SCHWANKE, Oregon.

Business is Fine for Southern Graduate

I've been very busy keeping my work moving along. I have been doing fine and made several thousand dollars profit, above expenses and wages, during the past year. I can always recommend Coyne to men interested in a real future.—L. R. SPEED, Georgia.

Coyne-Trained Brothers Wire Largest Building of Its Kind

My brother and I have had a very successful year in Electrical Contracting. With our Coyne Training, we were able to get the contract for wiring for power, light and signal system, not only the largest building in this section but the largest of its kind in the United States. It is a seed-picking plant. You can imagine the boost it gave us and also Coyne, as people learned we were graduates of your school.

As a result, we made a contract with the power company to install all their ranges, ice-machines, pumps, etc. You may expect more students from this section, as there are many who envy the $1.00 an hour that we get.—A. L. LUND, Idaho.

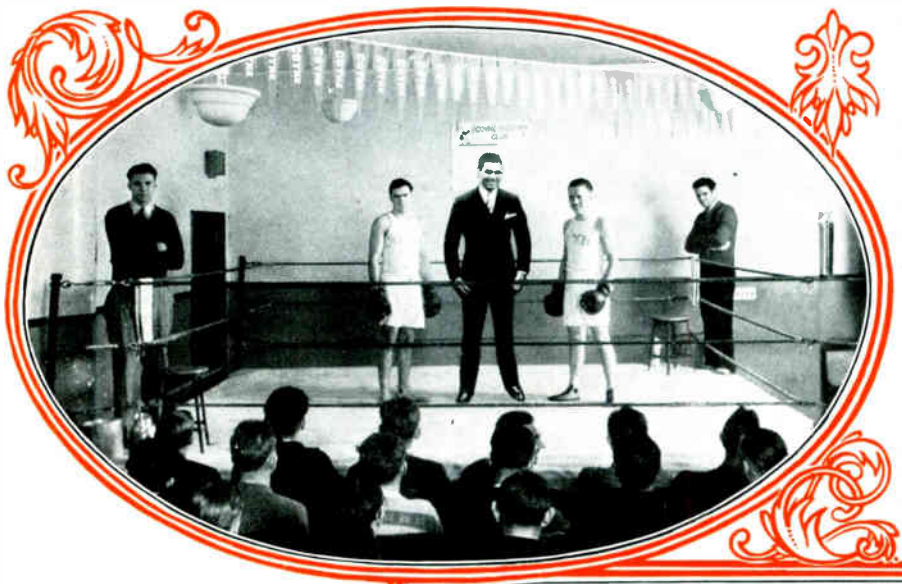
Earns $1,600 in Five Months

I feel that I am doing nicely in the field of Electrical Contracting. I started in August, at my new location, and in the first five months I had turned out $1,600 worth of work. Best wishes to everybody at Coyne.—STANLEY W. SCOTT, New York.

Our Student Service Department Handles All Your Problems

THE Student Service and Welfare Department plays an important part in Coyne School life. The minute you arrive, you feel that you are among friends. Coming to Coyne from a distant town, you are immediately impressed with the friendly atmosphere of your new surroundings. **Parents may feel assured that their sons will have the best of care at all times.**

My Student Service Manager is one of those fine, kind, warm-hearted men you enjoy meeting and knowing; nothing stiff or formal about him and no problem is too small or trifling to get his attention, no matter how busy he is or what he is doing. He treats every boy as he would his own son.



Athletics

NEARLY every week, during the noon hour, I hold a big amateur boxing tournament. All contestants are volunteers from the student body. Maybe a lad from Oklahoma takes on a fellow student from Canada, and so on, boys being represented from all parts of the United States and many foreign countries. The bouts usually go one and two rounds and, while always lively and full of humor and interest, are put on in a fine spirit of sportsmanship—never any rough stuff.

The oval picture at the top of the page was taken just before the bout between students F. Lightner of Ft. Ripley, Minnesota and Glenn Folland of Walworth, New York The two seconds are G. Mann of St. Louis, Michigan and J. P. Dixon of Knoxville, Tennessee. And Commerce; two of the leading stars from Leon Errol's latest show, "Fioretta"; **Red Grange**, of football and movie fame; Joe Sternaman, quarterback of the Chicago Bears professional football team; Dutch Sternaman, All-American from Illinois; **Leon Errol** himself, one of the World's Greatest Comedians and **Hal Totten**, popular sports announcer of Radio Station WMAQ, Chicago.

I Help You Locate a Fine Private Home Near School

WHEN you arrive at COYNE, completed your enrollment and meet my student service man, you are then ready to get your room. Our rooms are located within a short distance from the school in houses that as a rule take no one but Coyne students. Then within five minutes' walking distance from the school is the Y. M. C. A. where many students prefer to live.

Room and board can be had in a private home for as low as $6.00 to $6.50 a week. This includes a good room in which to work and sleep, and three appetizing, home-cooked meals every day. Special low rates are also made for light housekeeping rooms, in the case of married students who wish to bring their wives with them.

If you come with a friend and want to room with him, that too can be arranged. Or if you have friends or relatives in Chicago, with whom you could stay, that will be satisfactory, because Coyne is so convenient to transportation and can be quickly reached from any part of the city.

You will find that no detail making for your happiness, well-being, comfort and health has been overlooked. You will be surprised that little things you probably would never have thought of yourself have all been planned out and taken care of for you.

In case you happen to feel indisposed at any time, arrangements have been made whereby the folks with whom you make your home will notify me at once. Should there be occasion for medical attention, my house physician is available at all times.

Church Services

NO matter what your religion may be or what your denomination, you will find that a church of your choice is right near at hand and they welcome their members from other towns and cities. I had room to illustrate only a few of the many churches convenient to our school, in the pictures on page 38.

On Sundays, groups of students often attend one of the neighborhood churches, escorted by an instructor. Special classes and discussions are occasionally held for Coyne men, and these are strictly non-sectarian. Attendance is purely voluntary—no student has to go unless he wishes to. It's a matter of personal choice.

The Y. M. C. A. Right Near Coyne

THE Y. M. C. A. is just a few blocks from the school and our students may join while here at a special price. This also gives them the privilege of rooming there if they so desire. There are numerous events given by the Y. M. C. A. and many athletic activities to interest those who like athletics. This membership affords opportunity for full gymnasium and swimming privileges.

Your Entertainment at Coyne

WHEN I tell you about the numerous entertainment features at Coyne I do not want you to get the impression that this is made too big a part of the work here. We always keep foremost in mind the big fact that the main thing we are all here for, my staff as well as my students, is sincere work. But, just as all work and no play makes Jack a dull boy, I realize the importance of clean, wholesome entertainment features, as well as athletic activities.

Nearly every week we hold, during a noon recess hour, some form of wholesome entertainment, such as instrumental music, singing, tap dancing, tumbling, magicians' acts or athletic exhibitions. Many of the performers are high-priced artists, but there is never any charge to our students.

The middle picture on this page shows a happy bunch of Coyne Students enjoying one of these regular entertainments. You see on the stage (left to right) three prominent official of the Chicago Association of the referee is none other than our old friend, Jack Dempsey, the greatest champion of them all.

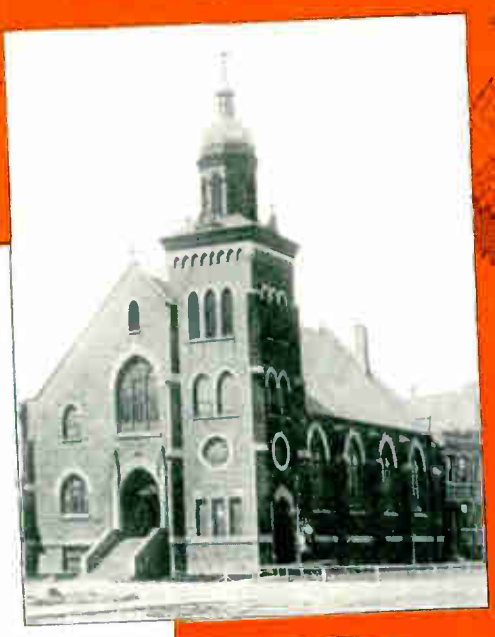
Outdoor Sports

THEN as you know, Chicago is one of the greatest cities in the world for outdoor sports. In the summer either the White Sox or Cubs are always playing.

There is swimming and hundreds of other good, clean recreations. In the fall the biggest football teams in the country play here. Then in the winter there is skating in the Parks. Theatres and great athletic contests going on continually. The Sightseeing Busses, Stockyards, Field Museum and hundreds of other buildings and places of interest afford a fellow hours of good clean recreation without sacrificing any of his school work.

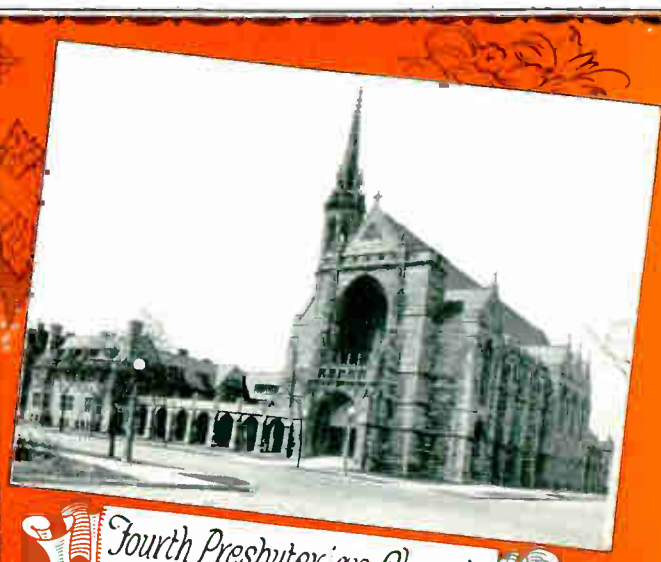
Our own Band, composed entirely of Coyne students. If you play any instrument, bring it with you.

Holy Name Cathedral



Bethel Lutheran Church

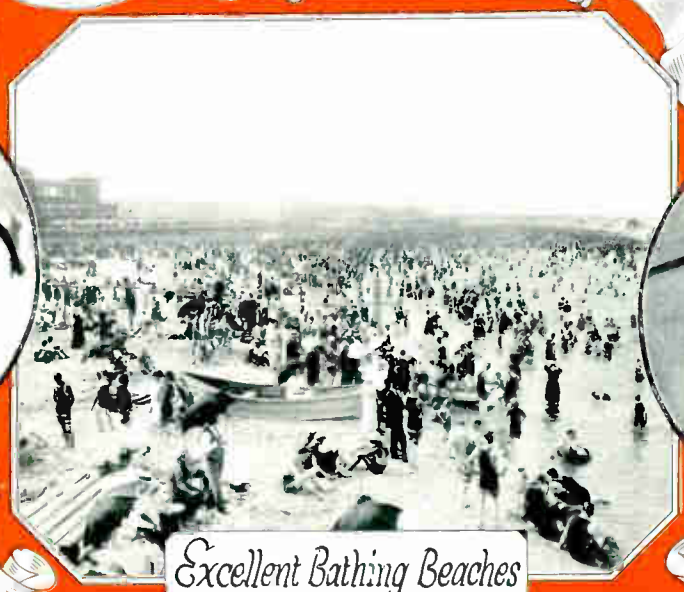
M. E. Church ~ Chicago Temple



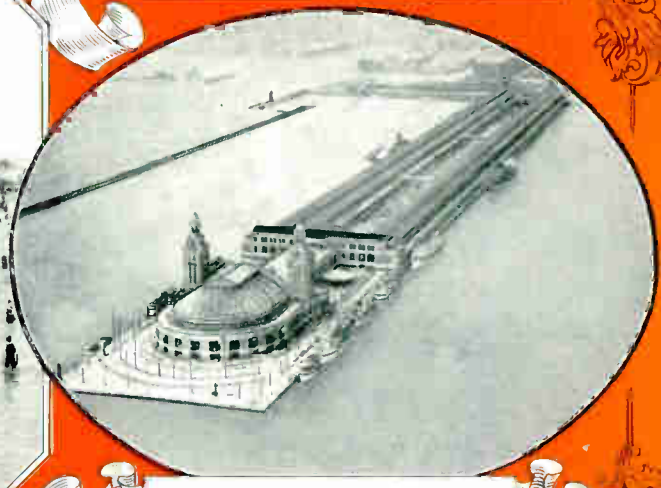
Fourth Presbyterian Church

One of the many excursion boats

Ice skating on Park Lagoons



Excellent Bathing Beaches



Municipal Pier

Big League Baseball Game at Cubs Park

Football Game at Soldiers' Field Stadium

Important Questions Asked and Answered

I HAVE tried here to answer every question you would likely want to ask me, but I want you to feel free in asking me any other questions you may think of. Also if my explanations are not perfecly clear to you, **don't hesitate to write me.** I want you to thoroughly understand everything about my school.

Sometimes a fellow has a problem that's different from any other fellow's. So if you have any problem at all, **don't hesitate to discuss it with me;** if it's of a confidential nature, I will keep it confidential.

1. When is the best time to enroll?

As soon as possible. My school is in operation twelve months of the year, so you can start at any time. Every day you delay means just a day longer before you get that good paying Electrical Job. Start **now** and in just 90 days from **today** you'll be ready to step right into electrical work. There are no classes to hold you back.

2. What do you mean when you say no books. Does it mean you do not teach theory?

This is a question that is asked me very often so I'll answer it clearly. When you went to public school or if you ever attempted to take

IMPORTANT NOTICE!

Since this catalog was printed I've been able to arrange STILL FURTHER REDUCTIONS in the price of board and room for Coyne Students. Through these special arrangement you can now get a fine room and three good meals a day for as low as $5.50 a week.

H. C. Lewis

uated and every comfort and convenience for our students. We own our own building and occupy every foot of it for our school.

4. What is the cost of the course?

Prices and terms are given on the enrollment blank enclosed. Additional blanks sent promptly on request.

5. Does your tuition price cover full training?

Yes. You never pay us more than one tuition price, which covers all departments and all materials and in addition receive a Life Scholarship in the Student's Association, including full review and consultation privileges.

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8. Can I go to school half-time and work half-time?

No. We know from experience that any such plan is not a good one.

9. Can I get work to help pay my expenses?

While we do not guarantee positions we will give you every assistance in procuring work after school to help pay your living expenses while in school. Now please understand, these jobs are only to help a student through his course and are usually jobs that require no skill.

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Yes. Twelve months in the year, and every day except Sundays and legal holidays.

17. Do you grant a diploma?

Yes, and this diploma is well and favorably known by thousands of employers in all parts of America.

18. Are your testimonial letters genuine?

Absolutely! Every letter published here and elsewhere in my circulars is genuine. The original is in my files and the address will be furnished if you want it.

19. When were you organized?

1899. We are the oldest established practical electrical school in the United States.

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COYNE STANDS BEHIND YOU and Aids You for Life

WE do not feel that our duty to you ends with your graduation. We believe that it is part of **our job** to see to it that you make a **big success** in Electricity—and so **even after you have left school,** we continue to help you and stand by you as long as you live. **Then we use all the resources and influence of this great Institution to help you—because, after all, your success is our success.**

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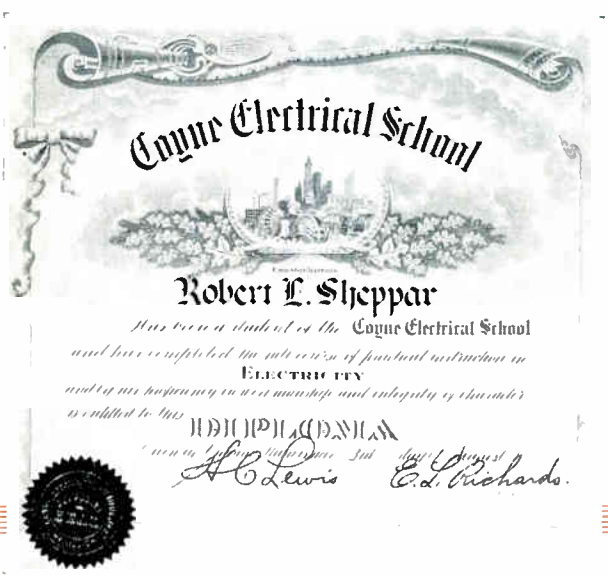
I HAVE already told you about our great Employment Department and how we will do everything in our power to help you find just the Electrical job you want. But that's only a small part of the service we render our graduates.

After you leave **Coyne,** we will keep in constant touch with you. You may receive bulletins on the latest Electrical developments; all the dope on any new equipment that may be devised, etc. Also, you'll be free to call on our Graduate Department **for free consultation service** as often as you like. Whenever you run into a job that you are not sure about—whenever you have difficult problems of any kind, whether they concern Electricity or not—**all you have to do is call on us. You can depend on our help and friendship as long as you live.** Once a **Coyne** student, you are always a **"Coyne** student."



I Want Your Friendship

WHEN you leave this Institution, I want you to feel that you are **a part** of it. I want you to feel that in **Coyne** you have a great **friend,** upon whom you may always rely.

Coyne has been training men for Better Pay ever since 1899, and we are proud of our thousands of graduates—proud of the great success so many of them are making out in the field—**and we count them as our good boosters and friends.**

I want **your** friendship and good will. And when you come to **Coyne,** I'm going to do everything in my power to prove **my** friendship to you. In fact, you'll find that **everyone** at **Coyne,** every Department Head and every Instructor, is anxious to do everything in his power to help you. We are all like one big happy family here at **Coyne,** working together in the common cause of making successful men out of ambitious fellows like you.

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And should you arrive in Chicago after 4 P. M. on Saturday or Sunday, or after 9 P. M. on any other day, just tell the taxi driver to take you to the LaSalle Hotel. Spend the night there and take a Yellow Cab to the school the next morning. Bring your cab receipts and hotel bill with you and we'll pay you back all that you have spent on them.

Don't worry about anything! We'll arrange for your room, attend to your baggage **and help take care of all your problems for you.**

Terms of Tuition

THE enrollment blank shows you the tuition charge—**and this covers everything, except the $5.00 tool deposit, which is returned to you upon graduation, $1.50 for a note-book, and $2.50 for compass, pencils, ruling pen, rulers, card case, etc., and $5.00 for your Diploma. There are absolutely no other compulsory charges of any kind.** The one tuition charge covers all work in all departments, and even includes the extra optional course in Code Practice.

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Care of Students—Students are lodged in clean, comfortable rooms only, which are frequently inspected by the school authorities.

Sickness—Absence from class is immediately noted and inquiries made to discover the cause. Students found sick are given the best of care.

Money—We supply students with deposit privileges at the office. Money deposited with the School Cashier may be drawn on as needed. **In coming to School, don't bring cash or a personal check.** Get a cashier's check or traveler's check at your bank; or an Express or Postoffice money order.

NOW··IT'S TIME TO DECIDE!

YOU sent for this big book because you realized that **only by becoming a trained man could you hope to enjoy the good things in life.**

There can be no doubt in your mind on that point. The depression proved that the untrained man is never sure of steady work—he's always in danger of pay-cuts, lay-offs, unemployment. And regardless of how times are, you can't expect to get real money—a real job—opportunities for advancement—unless you are **specially trained!**

So you **want** training—that's **certain.** The thing you must decide now is, WHAT TRAINING?

If you have read this book thoroughly, you know all about the wonderful future that is waiting for you in **Electricity.**

You know that my practical **"Learn by Doing"** method is the one sure, quick way to the top in this ever-growing, ever-prosperous profession.

You know that there isn't a trade school anywhere to compare with **Coyne** in costliness and completeness of equipment, in quality of instruction, and in number of satisfied, enthusiastic graduates.

Choose ELECTRICITY and choose **COYNE.** It's the winning combination for a happy, successful career!

I Am Determined to Make You a Success!

In coming to **Coyne,** you entrust your future to a long-established institution, endorsed by the Electrical Industry, and possessing a 34-year record of honesty and square dealing. You receive a training that has no equal for practical, pay-raising helpfulness. You get a Lifetime Employment Service that produces remarkable results.

And you get something more—**my personal promise** to do everything in my power to make you a 100% success in Electricity!

I have never gone back on my word. And I give you my word, here and now, that when you enroll with **Coyne** I will work with you and for you to the absolute limit, both in your training and after you graduate!

I want you as my student—just as soon as you can possibly come. I am ready and anxious to help you climb out of the rut of low pay, hard work, and unemployment worries, and to join that loyal army of **Coyne** Trained Big-Pay Electrical Men!

LET'S START TODAY!

H. C. Lewis.

President.

PRINTED IN U. S. A.

● CONTENTS: Catalog
Fourth Class Matter

POSTMASTER: This parcel may be opened for postal inspection if necessary.

COYNE
ELECTRICAL SCHOOL

FOUNDED 1899

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ALL BRANCHES OF ELECTRICITY TAUGHT BY THE FAMOUS COYNE "LEARN BY DOING" METHOD, AND NOT BY BOOK STUDY.

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509 SOUTH PAULINA ST.
CHICAGO, ILLINOIS

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POSTMASTER:—If Addressee has moved, notify sender on Form 3547 postage for which is guaranteed. In case of removal to another post office do not notify the Addressee but hold the matter and state on Form 3547 amount of forwarding postage required, which sender will promptly furnish.

Return Postage Guaranteed

Mr. Pete Andrew
Box #342
Darragh, Pennsylvania

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This is a question that is asked me very often so I'll answer it clearly. When you went to public school or if you ever attempted to take a correspondence course — practically all of your work was out of text books or printed lessons. Here at **Coyne** we don't teach you with text books. We don't condemn books if they are properly used for reference purposes or to keep posted on events or happenings. Our instruction, however, is on actual electrical machinery and **not by text books.** We give a student the theory he needs by practical talks, blackboard sketches and equipment demonstrations, then when you learn it this way it stays with you. And of course you have your own notes to refer to. As I said, I don't condemn books—they serve their purpose, but **I** don't believe anyone can become a trained expert by only studying books or lessons. **Coyne** is practical, both in practice and theory, and you don't study books **here** in my school.

3. Is your building modern and fireproof?

Absolutely, the very latest style of steel and concrete construction, light on all sides, ventilated and every comfort and convenience for our students. We own our own building and occupy every foot of it for our school.

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Yes. All we require is a willingness on your part. Our course is laid out in such a way that anyone can master it if they will apply themselves and do their part.

13. What is the age limit, if any, for enrolling in your school?

There is none. We have students as young as 15 and others as old as 45. Some of the best men we ever turned out were mature in years. Fathers and sons have taken the course together. Some of our students are experienced men who come to master advanced methods of doing their work.

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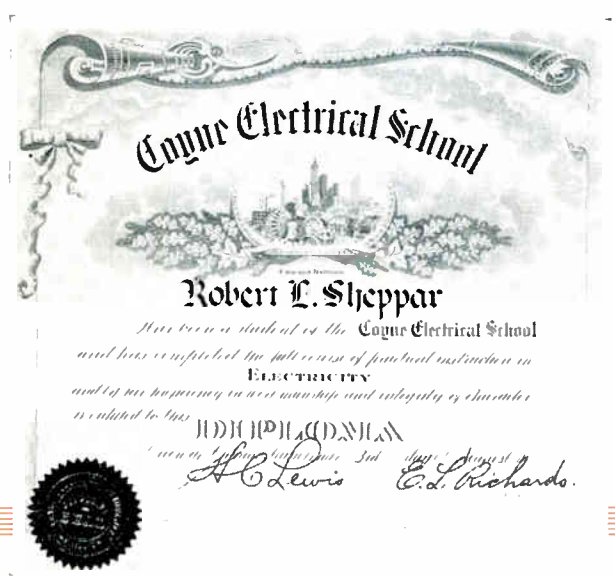
Coyne Electrical School

Robert L. Sheppar

Has been a student of the Coyne Electrical School and has completed the full course of practical instruction in ELECTRICITY and by his diligence, earnest application and integrity of character is entitled to this DIPLOMA

H. C. Lewis — E. J. Richards

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