

• ELECTRICITY •  
• TELEVISION •  
• RADIO •

GATEWAY TO OPPORTUNITY



COYNE

ELECTRICAL AND  
TELEVISION-RADIO  
SCHOOL

TRAINING MEN AND  
YOUNG MEN SINCE 1899

CHICAGO







# Why you should prepare for the great opportunity fields of ELECTRICITY AND TELEVISION-RADIO and why you should get your training at COYNE

by B. W. COOKE, President

AS PRESIDENT of Coyne, let me thank you for this opportunity to tell you about our world-famous school and what it can do for you.

YOUR FUTURE is the most important thing in the world to you. This book, "The Story of Coyne," is dedicated to your future.

It has large sized pages so we can show you big, clear pictures—to give a true conception of every department and every step in your training. It is printed in easy-to-read type because we want you to read every word.

Please, for your own sake, don't skip any part of this book. It will take only a little of your time—and it will be time well spent. Ask any of the thousands of successful Coyne graduates who got started on the road to better jobs and bigger pay through these pages!

## Your Entire Future Depends on the Decision You Make Now

TODAY you stand at the crossroads. The decision you make may affect your entire future. You have two very important questions to answer.

No. 1 Shall I make Electricity or Television-Radio my life's work?

No. 2 Shall I get the training I need at Coyne?

Both Electricity and Television-Radio offer the trained man a world of opportunities. To prepare for these great fields you need the best possible

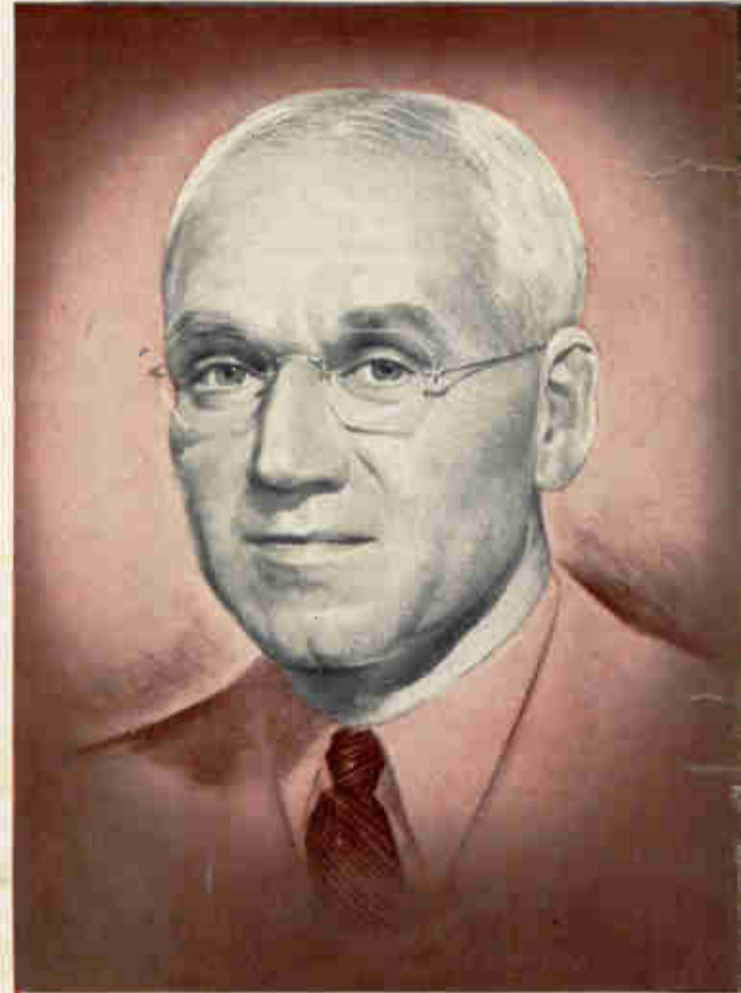
preparation and training you can get.

So, you'll find that both of these important questions are answered fully, frankly and clearly on the following pages. When you finish reading this book you'll have all the information and facts to make this important decision which can mean so much to your future success.

## The Oldest, Largest and Best Equipped School of Its Kind in America

OUR school was established in 1899, and has been in continuous operation ever since. For over fifty years we have been training men and young men from every state in the Union and many foreign countries. It is Chartered under the laws of the State of Illinois as an Educational Institution Not For Profit.

Here at Coyne you first get your technical and theoretical training through interesting lectures. Then you get instruction through demonstrations and explanation of equipment on typical jobs and then you apply this knowledge by working out practical jobs on the actual equipment. These are the "THREE STEPS" in the COYNE PRACTICAL-TECHNICAL METHOD of training as illustrated on Page 2. This plan is followed in all departments of our school.



Above you see a picture of B. W. Cooke, President of the Coyne Electrical and Radio-Television School. Mr. Cooke has been identified with Coyne for more than 30 years. He is an inspirational leader and executive with a deep interest in the welfare and progress of every Coyne student and graduate. He is a member of the American Institute of Electrical Engineers, an Associate Member of The Society of Automobile Engineers, and an Associate Member of The American Society of Mechanical Engineers, and one of America's leaders in the field of practical training.

S. C. NARLAND, Vice Pres. & Gen. Mgr.

## Previous Experience Not Needed

YOU don't need previous experience in order to take COYNE training. The COYNE PRACTICAL TRAINING method takes the place of previous experience. Some graduates have told us that when they left COYNE and went to work it was like stepping from one job to another—the technical training and practical work they had gotten fitted them so well for the job.

Then again, some students have had experience in some branch of Electricity or Television-Radio but lacked the technical training and general knowledge for real success. They were not satisfied and wanted the technical knowledge and training to equip themselves for the better jobs and opportunities. So whether you've had experience or not you can take Coyne training and progress step by step to prepare for a lifetime of opportunities in this great field.

### DESCRIPTION OF TRAINING

**ELECTRICAL:** On pages 3 to 22 inclusive, we picture and describe the training in each of the departments of our Electrical courses of training.

**TELEVISION-RADIO:** The description of our Television-Radio training starts on page 24. From page 24 to page 38 we picture and describe each of the departments in our Television-Radio courses of training.



FOUNDED 1899  
Famous for Over  
50 Years.

This modern fireproof building — over 60,000 square feet — is occupied entirely by Coyne. Our light, airy shops contain one of the greatest outlays of Electrical and Television-Radio training equipment anywhere in America!



# HERE ARE THE **3 STEPS** IN COYNE'S FAMOUS PRACTICAL-TECHNICAL TRAINING

## First You Get Your Technical Training and Theory— Which You Apply to the Jobs You Do in the Shops

**T**HE students shown in the 3 pictures on this page illustrate the 3 important steps in Coyne Practical-Technical Training. The photo illustrating step Number One shows students in a class room getting their technical training and theory through an instructor's lecture and class discussion.

The use of sound films and strip films together with blackboard illustrations, diagrams, and the instructor's explanations makes this step-by-step instruction easier for the student to grasp and remember.

Each department has its own well lighted and ventilated lecture room with comfortable arm type seats to make it more convenient for students to make notes.

As you go through each department of your training you follow this practical-technical method, worked out by over a half a century of training experience. You are told the "HOW" and the "WHY" of Electricity and Television-Radio and then you understand what you are doing and why you are doing it, when you work out the actual jobs yourself in the training shops.

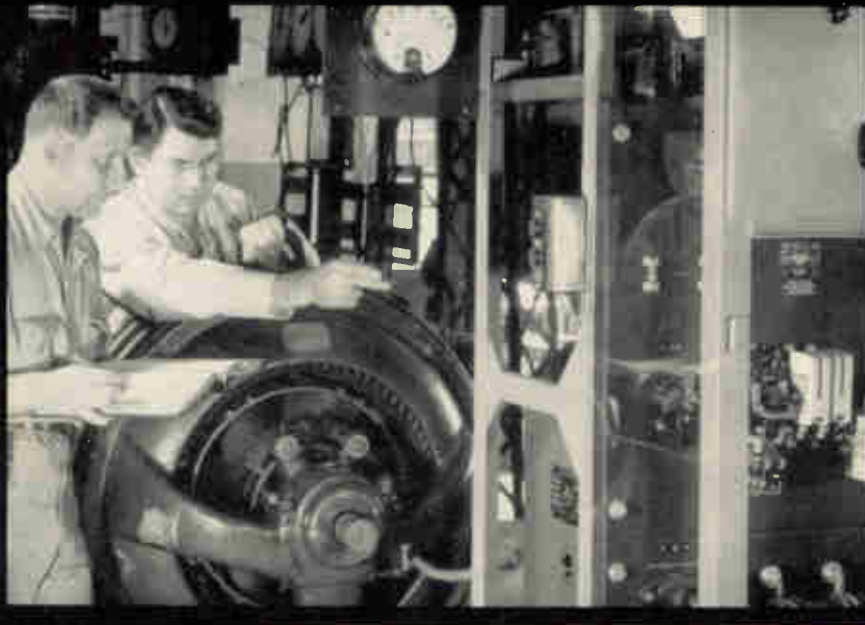
### Equipment Demonstration Is the 2nd Important Step in Coyne Practical-Technical Training

**S**TEP Number Two, illustrated in the picture to the right continues your important step-by-step method of training. You are told how and why typical pieces of Electrical or Television-Radio equipment or apparatus works, with all important facts and theory explained in simple language. The important points are shown in demonstrations on the equipment itself.

You are furnished with text and instruction material at the beginning of each department and taught how to make practical notes and diagrams from the instructor's lectures, equipment demonstrations, and shop jobs. This material becomes an important part of your training here at Coyne and is valuable for reference purpose after you graduate.

**2**

Step number 2 continues your technical training with the instructor demonstrating typical jobs on the actual equipment and carefully explaining the various parts and details of operation.



### Instructors Work with You

**W**HILE fully half of your training here at Coyne is devoted to working out actual jobs in the training shops, equipment demonstrations by the instructor are a very important part of your training. Demonstrations on various pieces of equipment and apparatus are given by the instructors both during lectures and classroom discussions and also during shop work periods.

These equipment demonstrations, with the various parts and operations explained by the instructor, sometimes supplemented with slide films, make it easier for students to grasp and remember this important part of the training and helps them in their actual shop work.

Naturally, the easier we can make it for our students to learn, and the more help we can give them, the better qualified they will be for a good job and a real future.

**3**

In step number 3 you apply this technical training and theory by working out practical jobs yourself on the actual apparatus and equipment. Your jobs are then checked to make sure you have everything right.

## The 3rd Important Step is doing Actual Jobs on Actual Equipment—One of the Largest Outlays of its Kind in America

**T**HE photo to the left illustrating Step Number Three, shows how students apply their technical training and theory by doing actual work on the apparatus and equipment. There's no substitute for doing the job yourself. You'll be surprised how easy it is to remember things learned this way. Each step is fixed in your mind, and when the same problem comes up out in the field, you'll know exactly what to do.

At Coyne you work in the midst of a vast outlay of Electrical and Television-Radio equipment and apparatus, one of the largest outlays of any school of its kind. All of this equipment is here for you to train on.

As you go through our course, each job you do leads to the next one. Almost before you realize it, you will be doing advanced jobs. It is this practical and thorough method of training that helps students take on these advanced jobs with confidence in their ability to do the jobs.

Coyne training has been designed to help students make rapid progress. That's how Coyne students can, within a short time, prepare for a real job in Electricity or Television-Radio. Thousands of fellows just like yourself HAVE DONE IT—and Coyne offers you the same opportunity when you learn by our Practical Technical training method.



*Now,*

# let's visit the **COYNE SHOPS** ... Department by Department



**Note: A Description of Our Training in Television-Radio  
Is Given on Pages 24 to 38 Inclusive**

**F**IRST we'll go through the Electrical Departments. Starting on this page and the following pages up to and including page 22, you will go through the departments of our training in Electricity. These departments are as follows: **Basic Electricity and Circuits; Wiring and Repair; Direct Current and Armature Winding; Alternating Current and Stator Winding; Industrial Electronics; and Refrigeration.** The training in these departments will give you an "ALL-AROUND" knowledge of Electricity based on practical, first-hand experience. You'll be able to step into many different types of Electrical work with the "know-how" to do the job right!

NOW, AS YOU GO THROUGH THE FOLLOWING PAGES, I WANT YOU TO PAY PARTICULAR ATTENTION TO HOW OUR STUDENTS ARE GETTING THEIR TRAINING. As you go through the different departments described in this book, I'm sure you can't help but agree with me when I say—the way to get a practical training is the way it is taught at Coyne.

## *First..* You Start With Fundamental Principles, Circuits and Circuit Tracing

### **COMBINATION ELECTRICAL AND TELEVISION-RADIO TRAINING AVAILABLE**

Many Students are interested in both the fields of Electricity and Television-Radio. For these students we have arranged combination courses which are explained in the material enclosed with this catalog.

**T**HE Electrical training here at Coyne is designed to give you the technical and practical knowledge that will be important to your future success whether you go into Electrical Service Work, Maintenance Work, Wiring for Light and Power, D. C. Power or Maintenance, Armature Winding, A. C. Power Plant or Substation Work, Industrial Electronics, Refrigeration, or any other type of Electrical Work.

### **You Start with Electrical Fundamentals**

**F**IRST you are given instruction on Electrical Laws and Principles. As you know, in order to do any type of Electrical work properly, you must have an understanding of the **Fundamental Electrical Laws and Principles** and how they apply to various Electrical Equipment so that you can do the job better because you understand what you are doing.

### **Your Training Includes Many Subjects in Electricity**

**Y**OU then continue with such subjects as Fundamentals of Electricity, conductors

and insulators, units and symbols, Ohm's Law and other important electrical laws, series and parallel circuits, magnetism, electro-magnetism, dry cells and storage batteries, relays, rheostats, switches, buzzers, bells, annunciators, generator principles, transformers, meters and telephone principles, circuit tracing, wire splicing and soldering.

Fundamental principles of wiring for light and power, National Code rules, inspection requirements, three wire Edison system, polarized systems, illumination principles, light and wiring layouts, calculations and tests.

Fluorescent and mercury vapor lighting is also covered as well as Sign Flashers, wiring principles and estimates of trouble shooting.

### **The Shop Work Is Laid out on a Step-by-Step Basis**

**A**FTER the subject has been explained to the student in lecture, he then applies this knowledge by working the jobs in the Training Shops, starting with the basic jobs, such as making various types of wire splices, soldering, and wiring up various types of Electrical Equipment such as doorbells, buzzers, lamps, and switches.

As the student completes each job he moves on to the next one. This makes his progress so natural and gradual that almost before he knows it he is working on more advanced jobs such as the circuit wiring of relays for remote control of annunciator systems, railway safety devices, burglar alarms, etc. Specially prepared Instruction Manuals with job procedures and diagrams

help the student every step of the way. After a student completes each job it is checked by an instructor, to make sure that the student understands the job before he moves on to the next job.

All of the student's work, here at Coyne, both his technical training and theory and his application of this knowledge to the jobs on actual equipment and apparatus in the shops, is done under the guidance of experienced instructors.

The student continues on this Practical-Technical Method of training throughout the first department, getting his technical training and theory each day and then applying this to his jobs in the shop. You'll be surprised how naturally you move along to the more advanced work and almost before you know it you'll be ready for the next department.

### **Technical Training and Theory Covered Step-by-Step**

**I**N your lecture periods, the instructor gives you your technical training and theory step-by-step, through explanation of the construction, operating principles, circuit diagrams and test procedure of the various types of Electrical Equipment. Demonstration of the Equipment and the use of sound films and strip films make it easier for the student to grasp this knowledge. Students make notes and diagrams in the Instruction Manuals furnished, which is put to valuable use both in working out the jobs in the training shops and for reference purpose later on after Graduation.



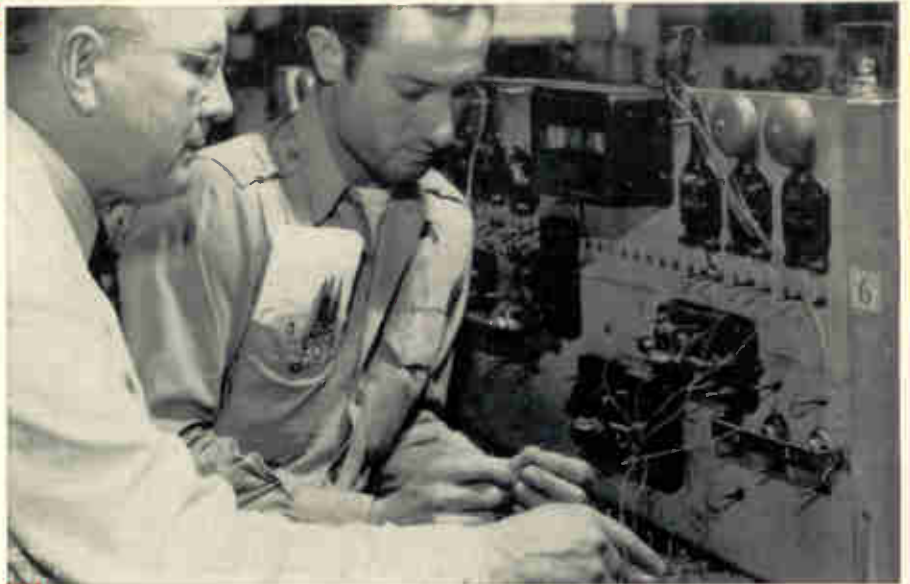
# Pages 4, 5 and 6 show students training in the... **BASIC ELECTRICITY** *and* **CIRCUIT DEPT.**



This photo shows a group of students listening to a lecture illustrated with strip films. When you start in this first department, the instructor explains the principles and laws of electricity. Then by blackboard drawings he illustrates how these principles work. After you have learned these principles and laws, you are given tools and then work out your jobs and see how these principles apply in your practical work. The same principles apply in all other departments.



Specially designed demonstration units and personal instruction make the principles of Electricity and Magnetism clear to students. On the left is a unit for demonstrating magnetic fields around conductors and coils.

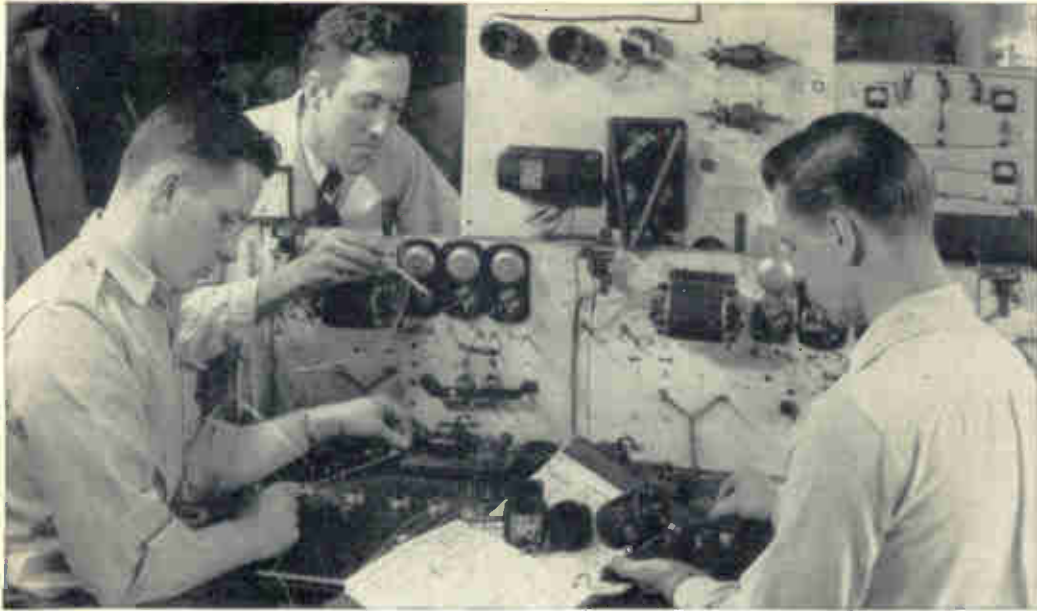


Above you see a close up view of a Circuit Wiring bench showing an Instructor giving a new student personal help in working out a relay circuit wiring job.

Below is a general view of part of our signal equipment. You see students wiring up and testing burglar alarm, door bell and signal systems.



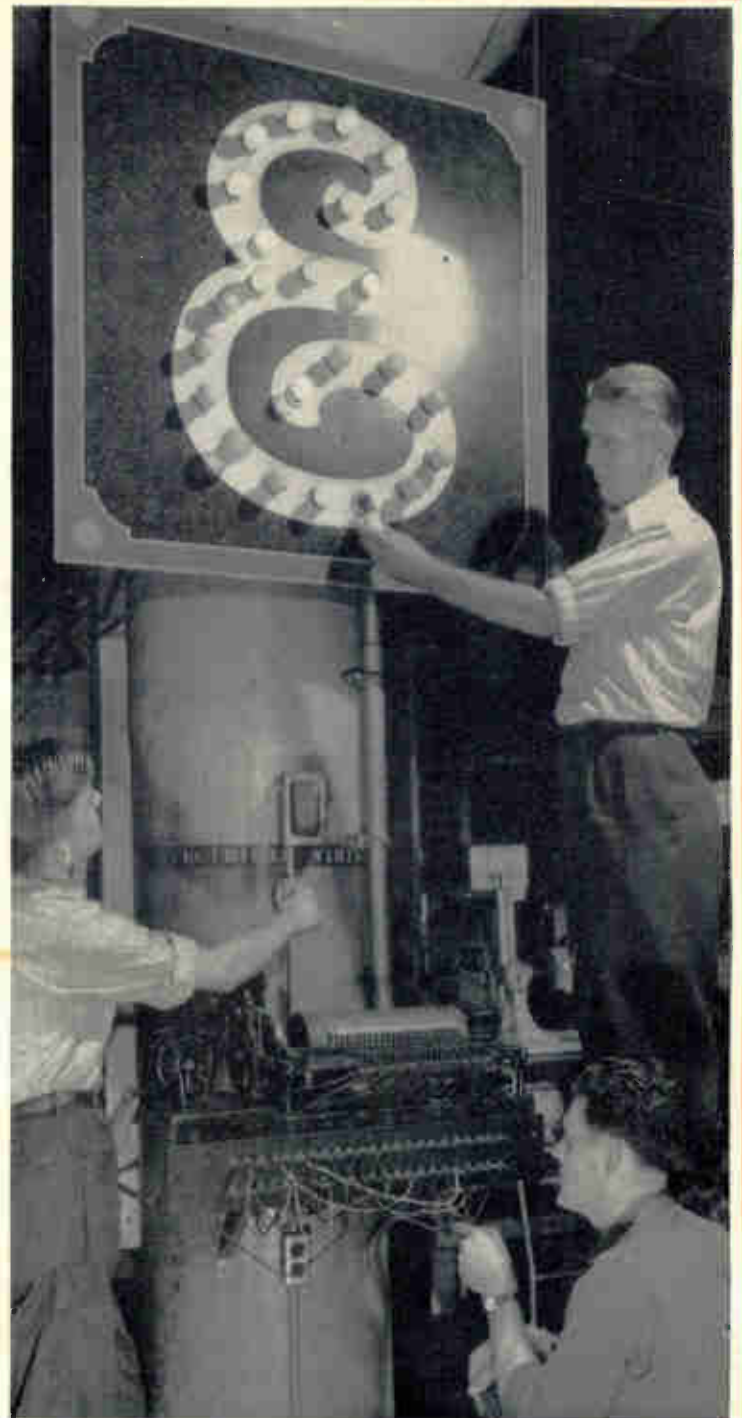




In the photo shown above you see a Coyne instructor explaining an important point to students who are becoming familiar with the construction of a small D.C. Motor by disassembling, checking, and reassembling. Students also check operation of motor by using a relay in wiring a motor circuit for remote control.



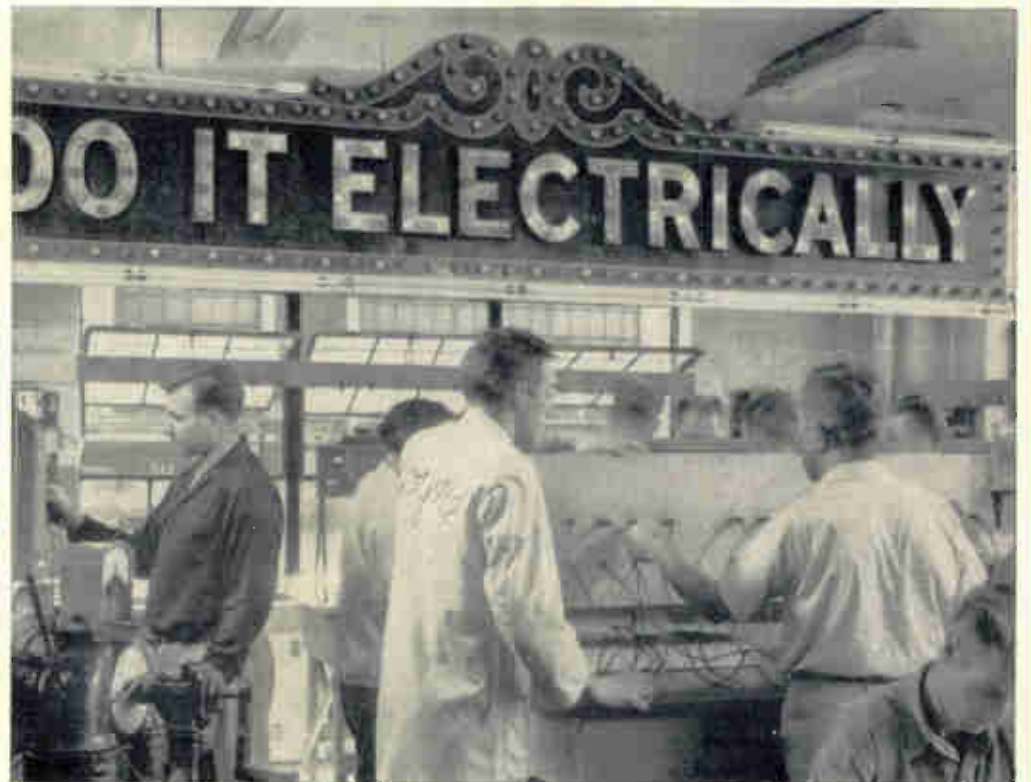
General view of a section of the Basic Electricity and Circuit Department. Notice the large and well lighted shop. The men are wiring and testing light control circuits in their first small conduit layout, and getting real practical experience in the handling of tools and the use of various kinds of switches.



This picture shows students getting practical training in the connecting up, testing and operation of a model Electric Flasher Sign. This sign is operated by a motor driven Flasher Control which operates the "on" and "off" flasher mechanism and animates the sign.

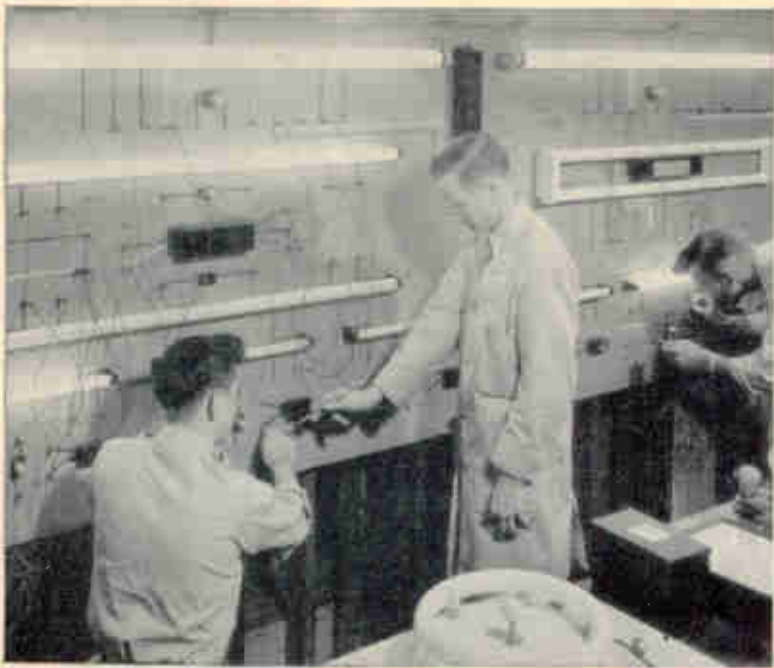


The picture above shows a group of students making voltage drop tests on lamps connected in series and parallel circuits. Notice the personal help they are getting from the instructor who is checking their jobs. Here in the shops of Coyne you'll always find instructors ready and willing to give you personal help when you need it.

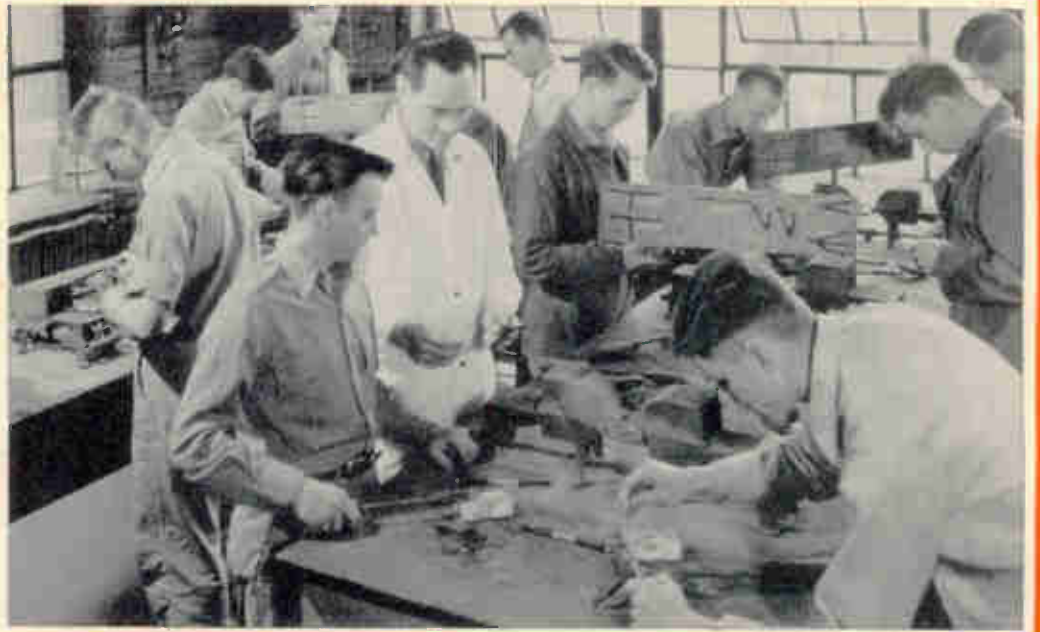


In this picture you see an instructor showing students how to connect up, test and operate the large Electric Sign you see at the top of the photo, by remote control hook-up.

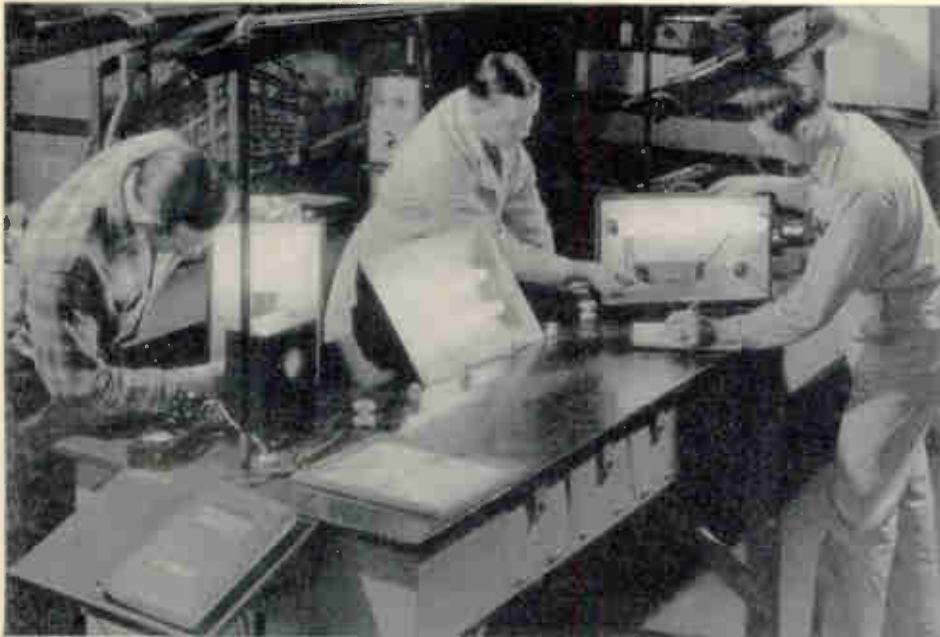




Special instruction on fluorescent lighting units, and the wiring operation and care of these interesting units is covered in this department. Thousands of these lights are in use now, and thousands more are installed yearly in the big industrial plants.



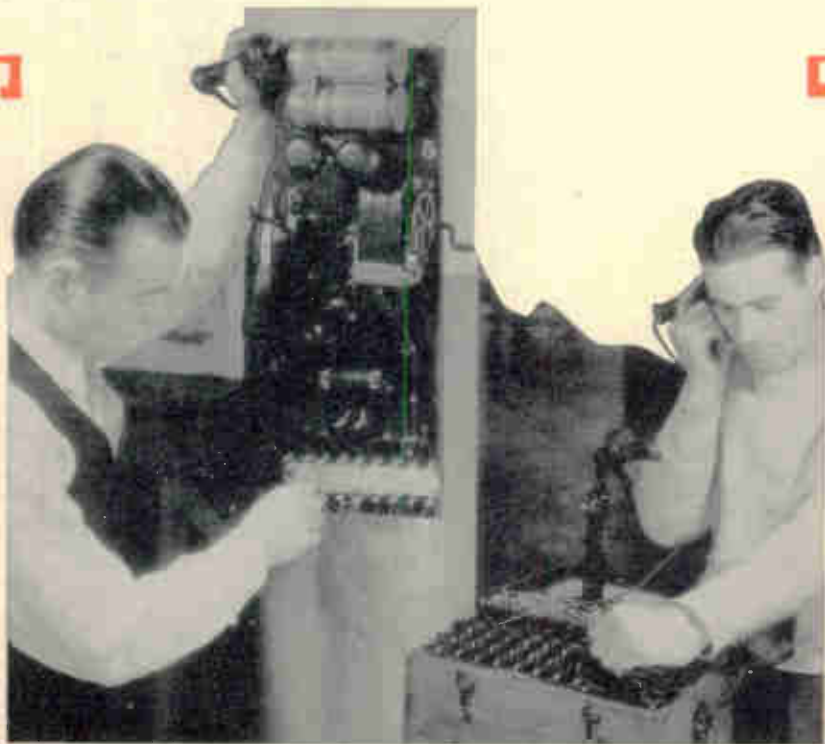
This picture shows a group of students getting started with their jobs that will give them practice in wire splicing and soldering with gas heated soldering coppers. Notice how students get real practical training even in this first department. This is the kind of training that fits a fellow to do practical work out on the job.



Instructor explaining principles and operation of new type fluorescent lighting units to students, as they perform shop tests on these units. This type of lighting equipment is becoming more popular every day for factories and industrial plants. It is frequently used to provide day-light working conditions to night workers.



Here you see students testing neon signs, fluorescent and mercury vapor lights, such as used in many plants and factories, and lighting control units. Such practical instruction gives you a good understanding of how to use and apply modern lighting equipment.



The students in the picture above are wiring and testing telephones. The instructor explains the operation of each part and then the students wire up the phones and test out their work by talking over them. This is an important branch of the Electrical field and thousands of trained Electrical men are employed by Telephone Companies throughout the country.



In this picture you see students doing splicing and soldering. The instructor has shown them how to strip the wires and make the common splices. Students then perform this job themselves.



# These Next 3 Pages Show You Views of Our **WIRING AND REPAIR DEPARTMENT**

**I**N this interesting department you have the opportunity to get the technical and practical knowledge that can help you lay the foundation for a successful career in the Electrical Service Field.

## **Commercial and Domestic Appliances**

**H**ERE in the Wiring and Repair Department you will be able to apply your technical knowledge and develop your skill by testing and checking various types of commercial and domestic appliances such as Refrigerator Motors, Blowers, Furnace Control Motors, Washing Machines, Fans, Vacuum Cleaner Motors, Electric Range and other commercial and domestic Electric Appliances.

## **Testing and Repair of Motors**

**T**HE training also includes the application, testing, overhaul, repair and maintenance of many different types of Electrical Equipment including Fractional Horsepower Motors, Single and Double Voltage Capacitor Motors, Single and Double Voltage Split Phase Motors, Double Voltage Capacitor start and Capacitor run Motors. This type of training gives students the knowledge and confidence to do this work out in the field.

## **Motor Bearings**

**O**NE of the most common troubles found in servicing motors is worn bearings. Therefore, we include in this department instruction and practice in methods of determining allowable wear and procedure for replacing and fitting, reaming and aligning bearings. The Service Man in the field will find this training a mighty valuable feature in this department.

## **Furnace Controls**

**T**HE photo on the lower left hand corner of page 8 shows students doing actual jobs on maintenance of Furnace Controls including Hot Air, Hot Water, and Steam types.

**THIS FIELD OFFERS ADDITIONAL OPPORTUNITIES TO OUR GRADUATES** to work for modern service organizations or to operate a business of their own.

## **Wiring for Light and Power**

**W**IRING for Light and Power is a very important part of your training in this department. Included in this training are such subjects as advanced Methods of Wiring for Light and Power, National Code Laws, Inspection requirements, three wire systems, etc.

You get wiring experience on jobs designed for that purpose. Practice is provided in conduit bending, cutting and threading. You get training on service installations, distribution cabinets, fuse boxes, light and appliance outlets, such as used in the wiring of houses, stores, factories, farm buildings, etc.

## **Framework of Modern Type Bungalows Set up**

**I**N order to give students real practical training in wiring a house, a model framework has been set up in our training shops. This is shown in the picture at the top of page 8.

Here the students bend conduit, pull wire, install service connections, and make installation of lighting equipment under conditions very much the same as they would do this same type of work out in this branch of the Electrical Field.

A picture on page 9 shows students working on service installation connections. This is an important part of house wiring. Then in another picture on page 9, you see students actually bending conduit. Students get special practice in bending, threading, and cutting conduit and learn the use of proper tools and fittings for this kind of work.

Wiring for Light and Power is one of the most important branches of the Electrical Field and offers splendid opportunities in working for contractors, R.E.A. wiring, or in a contracting business of your own.

## **A Business of Your Own**

**T**HE training you get in this department is exceptionally well suited to a student who wants to go into business for himself and open up an Electrical Sales and Service Shop with a small outlay of capital or to go into the Electrical Contracting business and install wiring for light and power.

The Servicing, Trouble Shooting, Repair and Maintenance of Electrical Equipment and Appliances is an important branch of the Electrical Field. The continuous operation of all Electrical Equipment and Apparatus depends upon it. Many Coyne Graduates have opened up an Electrical Sales and Service Shop with just a small outlay of capital. The training they got here at Coyne has prepared them to handle the many different types of testing, repairing, and servicing jobs they have been called upon to do.

In any community where there is electric power, there are houses, stores, factories, farms, farm buildings and other places to be wired up for light and power. The great expansion of Rural Electrification is making electric power available to every remote corner of the United States. This means that the trained Electrical man has greater and greater opportunity for a real future in this great expanding field.

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**BELOW AND ON THE NEXT TWO PAGES YOU WILL SEE SOME SHOP VIEWS OF THE WIRING AND REPAIR DEPARTMENT SHOWING COYNE STUDENTS GETTING "REAL EXPERIENCE" BY WIRING FOR LIGHT AND POWER UNDER CONDITIONS SIMILAR TO THOSE IN THE FIELD AND BY DOING PRACTICAL TESTING, TROUBLE SHOOTING AND REPAIR WORK ON ACTUAL ELECTRICAL APPARATUS AND EQUIPMENT.**



This is a general view of our Wiring and Repair Department showing students getting real practical training on various Testing, Adjusting and Repairing operations on Motors, Controls and other types of Electrical apparatus. This is a profitable field of opportunity to the trained Electrical man, whether he is working for a Service Organization or Operating a Business of his own.

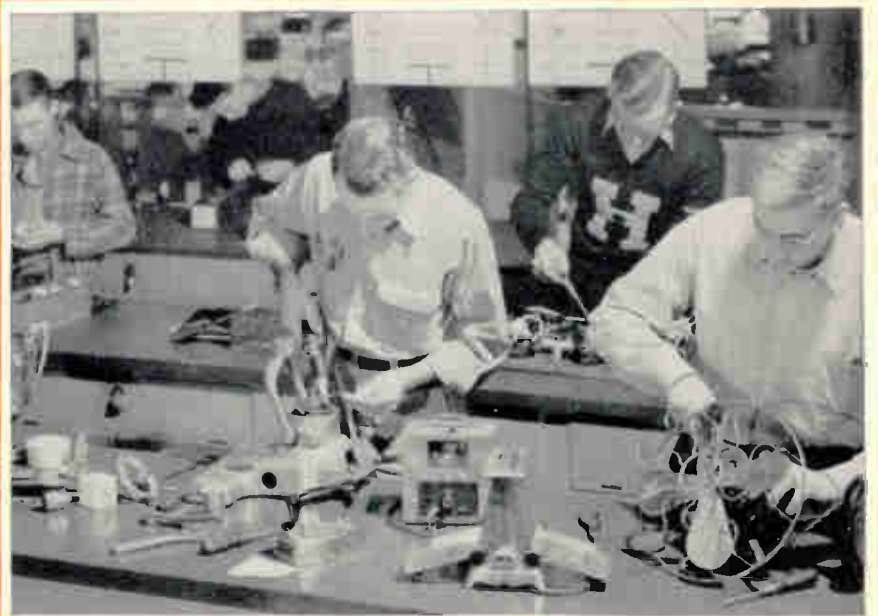




This is a picture of a Model Framework of a Bungalow which has been set up for students to get training under similar conditions as they will find out in the field. Here you see students getting instruction on the proper installation of a Service and Meter System.



Here is an Electric Range, with automatic temperature control equipment. Students get instruction on how it is constructed, and wired, and where to look for any troubles that might develop in such equipment.



These students are getting practical training and experience on repairing Electrical Appliances. This in itself is a profitable and popular field of Electrical work, and many of our graduates start a Business or Service Shop of their own in this branch of Electricity.



The picture above shows a group of Coyne students working with various types of Furnace controls, including Hot Air, Hot Water and Steam type controls.



These students are making a Lock-torque test on A.C. Motors to determine the effect on the starting torque when various size capacitors are used.





This instructor is giving a demonstration on handling conduit. Most of the new and modern wiring for lights and power is run in these pipes called conduit. A practical man working in this line must know how to bend, cut and thread this conduit. This training is designed to prepare graduates for work in wiring of houses, buildings, etc.

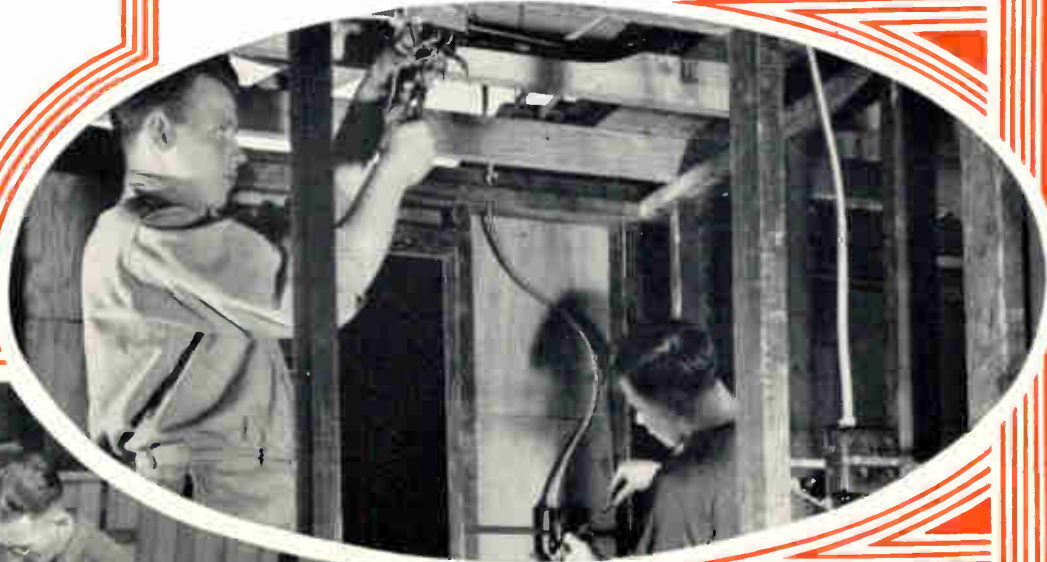


After the instructor has given instructions and a demonstration on the handling of conduit, students then do the jobs themselves. Here you see students bending and threading conduit.

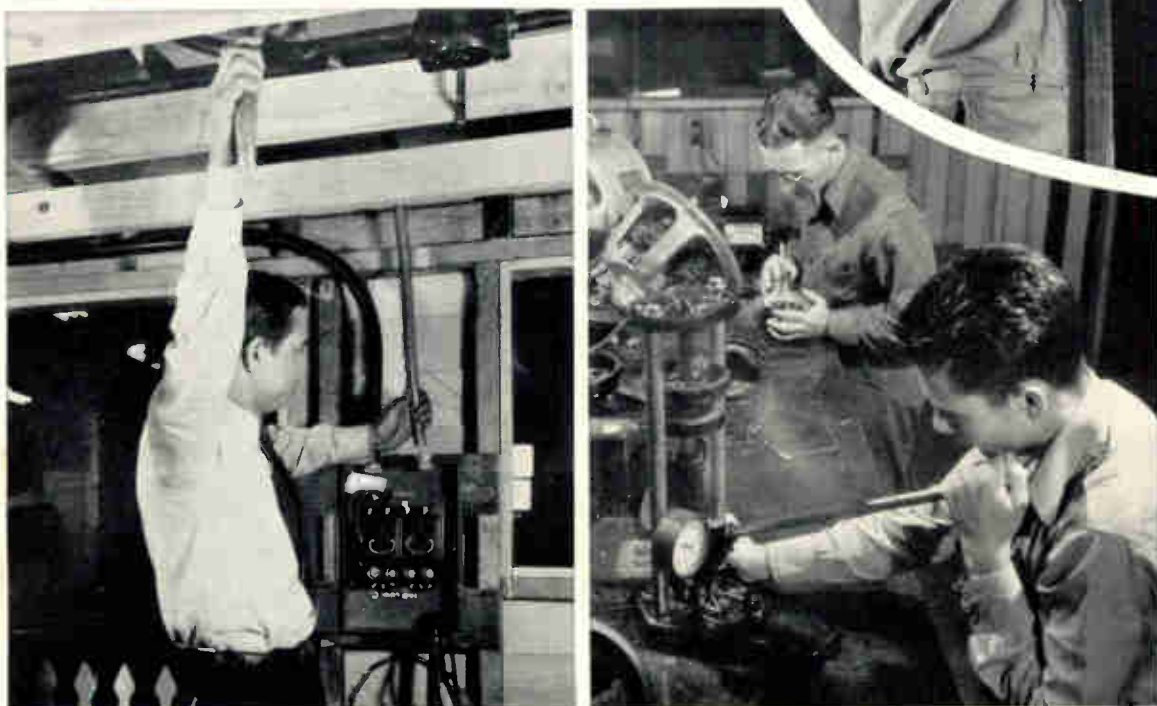
After the conduit has been bent to proper shape and threaded it must be installed. The photo below shows a student fitting a piece of thin wall tubing to a fuse box.



Another important part of house wiring is pulling the wires through the conduit after it has been installed. Here you see students getting practical experience on wire pulling.



On certain house wiring jobs, the installation of BX, or armored cable is permitted in place of conduit. The above photo shows students getting practical experience in the installation of BX and splicing of wires in outlet.



One of the most common troubles found in Servicing Motors is worn bearings. The student in the foreground in the photo to the left is replacing a worn bearing by means of a Hydraulic Press. The student in the background is making Fractional H.P. Motor Tests.



# On These Four Pages You See Students At Work in the **DIRECT CURRENT DEPARTMENT**

**I**N THE DIRECT CURRENT MOTOR, POWER AND ARMATURE WINDING DEPARTMENT, you get into the most fascinating work of your course so far. You are now ready to apply many of the things you have been taught, to the actual operation, care, testing, and repair of real DIRECT CURRENT POWER EQUIPMENT.

Your work on Direct Current equipment includes motors and generators of many types from the most simple, to the automatic controls and starters as you will see in the pictures on this page and pages 11, 12, and 13.

First your instructor explains the operation of D.C. Motors, using the actual parts of a machine and interesting blackboard sketches. He explains how to connect up, operate, and repair different types of motors. Then you go into the department and connect up, run, and repair actual D.C. equipment.

## You'll Find Plenty of Full-Size Electrical Equipment in the Coyne Training Shops

**Y**OU get training on the principles, characteristics, applications and voltage control of shunt, series, and compound wound generators as well as instruction on efficiency and horse power tests, and connecting up, testing, paralleling, and load adjusting of generators. In the shop jobs, the student actually wires up, tests, operates and maintains many different types of electrical apparatus and equipment.

You get instruction on the principles of D.C. Meters and their use in making voltage drop and current measurements on armature and field coils, and the use of meter and high voltage power supply for testing insulation resistance. The use of growlers in locating faults in armatures. The care and repair of commutators including undercutting and turning down on a lathe.

## You Work on Direct Current Power Equipment

**I**N your practical shop jobs, you wire up, test, and operate different kinds of generators and motor generator sets, D.C. Motor Starters and speed controls. You learn the care of coils, contactors, overload devices, etc. You work on Direct Current power plant Switchboards and are taught their circuits and operation. You learn how the meters and switches are attached, also switchboard circuits and arrangement of Bus-Bars and control wiring.

You get instruction in common Power Plant operating rules. Then you learn about meters, and recording instruments. Then you operate the switchboard and parallel generators.

## Armature Winding

**Y**OU learn how to wind and test Motor Armatures, as you will see in the pictures on page 13. After the instructor has explained the principles and the purpose of the coils, he shows you how to make your first wire wound coils yourself. Then you go ahead and complete the winding with your own hands, but always with his help and advice any time you need it.

When you have the coils in, the instructor shows you how to test each one to prove there are no faults in them. Then you solder the connections, and test the whole winding. **THEN YOU PUT IT IN A MOTOR FRAME AND ACTUALLY RUN IT.**

This practical training in our Direct Current Department is designed to **PREPARE STUDENTS FOR OPPORTUNITIES in POWER HOUSE, MANUFACTURING PLANTS, MINES, INDUSTRIAL CONCERNS and ON RAILROADS and OTHER PLACES WHERE DIRECT CURRENT IS USED.**

## There is no Substitute for Practical Job Training

**C**OYNE has always believed that a fellow can learn a thing much quicker and better if he can actually **SEE, HANDLE, AND OPERATE THE EQUIPMENT HIMSELF.**

We know that a fellow wants the training for one reason—to get a job—a job that has a future.

We know, too, that a fellow wants to prepare for that job in the shortest possible time.

That is why we have developed a technical and practical course of training and designed our training methods around the idea that a fellow who wants a training doesn't want a lot of frills, but wants a course of training that can fit him as quickly as possible for his place in the industry for which he trains.

Here at COYNE our purpose is to give you such a training and give it to you in such a way that you can understand and remember.

They say a picture is worth a thousand words. If this is true, then doing the actual job is worth even more.

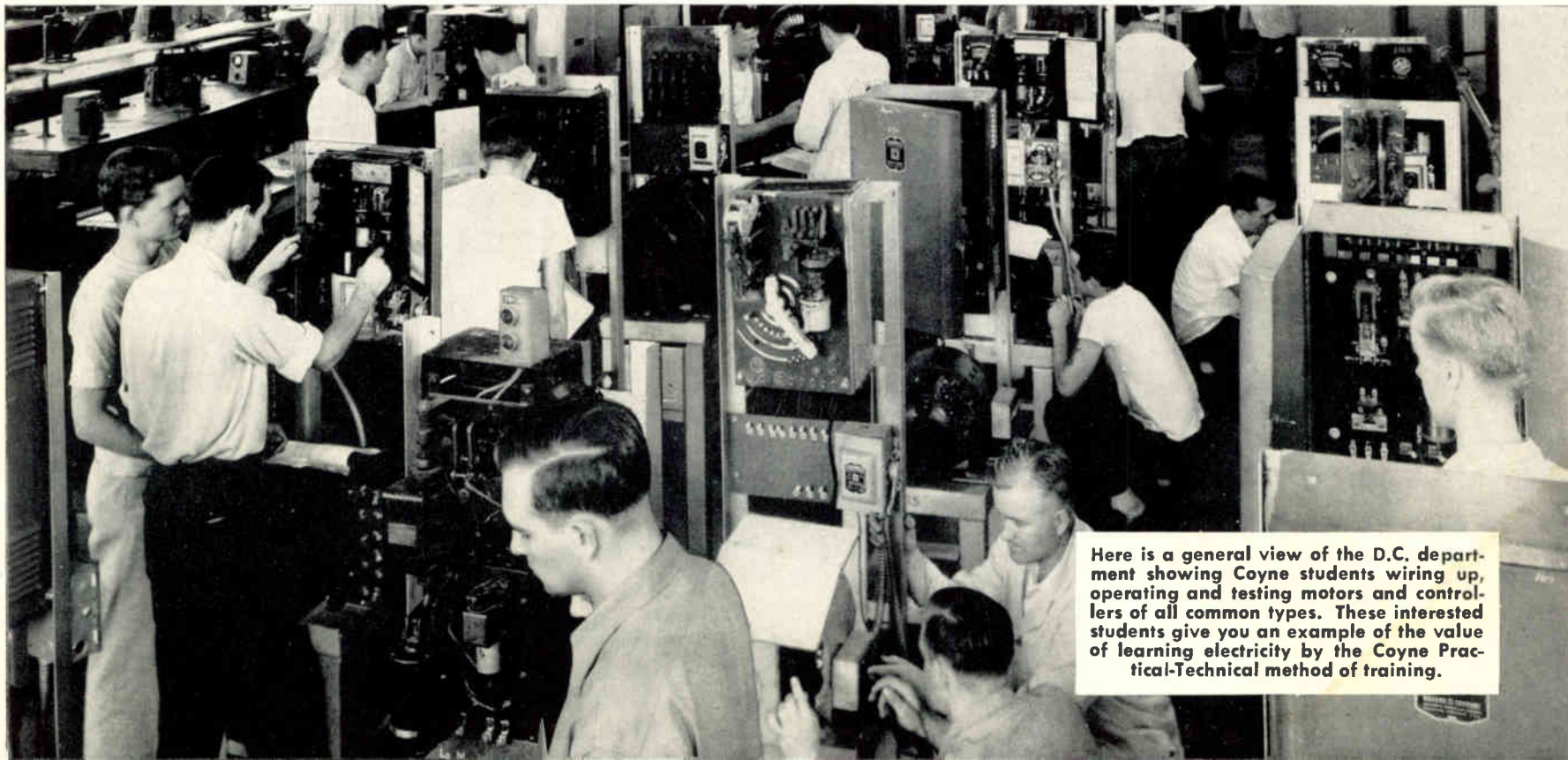
That is why we combine the technical training and theory, given by practical lectures, film slides, blackboard diagrams, and equipment demonstrations with "practical" training.

I am sure you must admit this method of training—**BY EYE, EAR, AND HAND—IS THE MODERN AND MOST EFFICIENT WAY TO GET YOUR TRAINING.**

The pictures on this page and on pages 11, 12 and 13 illustrate the practical training methods employed not only in our D.C. Department, but throughout the entire course. Be sure to read the explanation below or at the side of each picture. In that way you get a "picture story" of this Department.

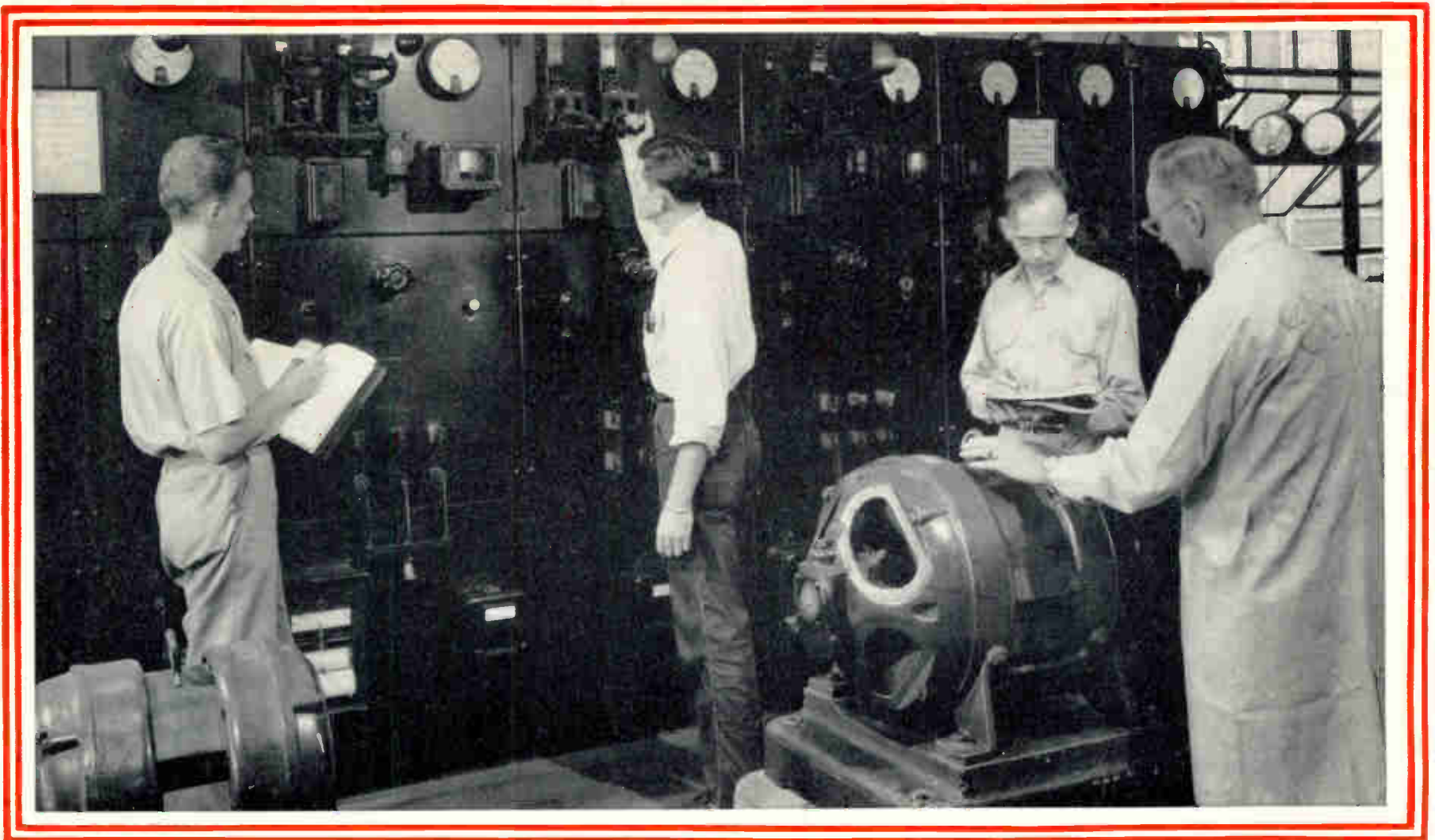
## You Are Now Ready for the Interesting AC Power and Stator Winding Department

**A**FTER you have covered the training in our **DIRECT CURRENT AND ARMATURE WINDING DEPARTMENT**, you are ready to begin the study of the interesting field of **ALTERNATING CURRENT MOTOR AND POWER WORK** including **STATOR WINDING** which is pictured and described on pages 14, 15, 16 and 17.

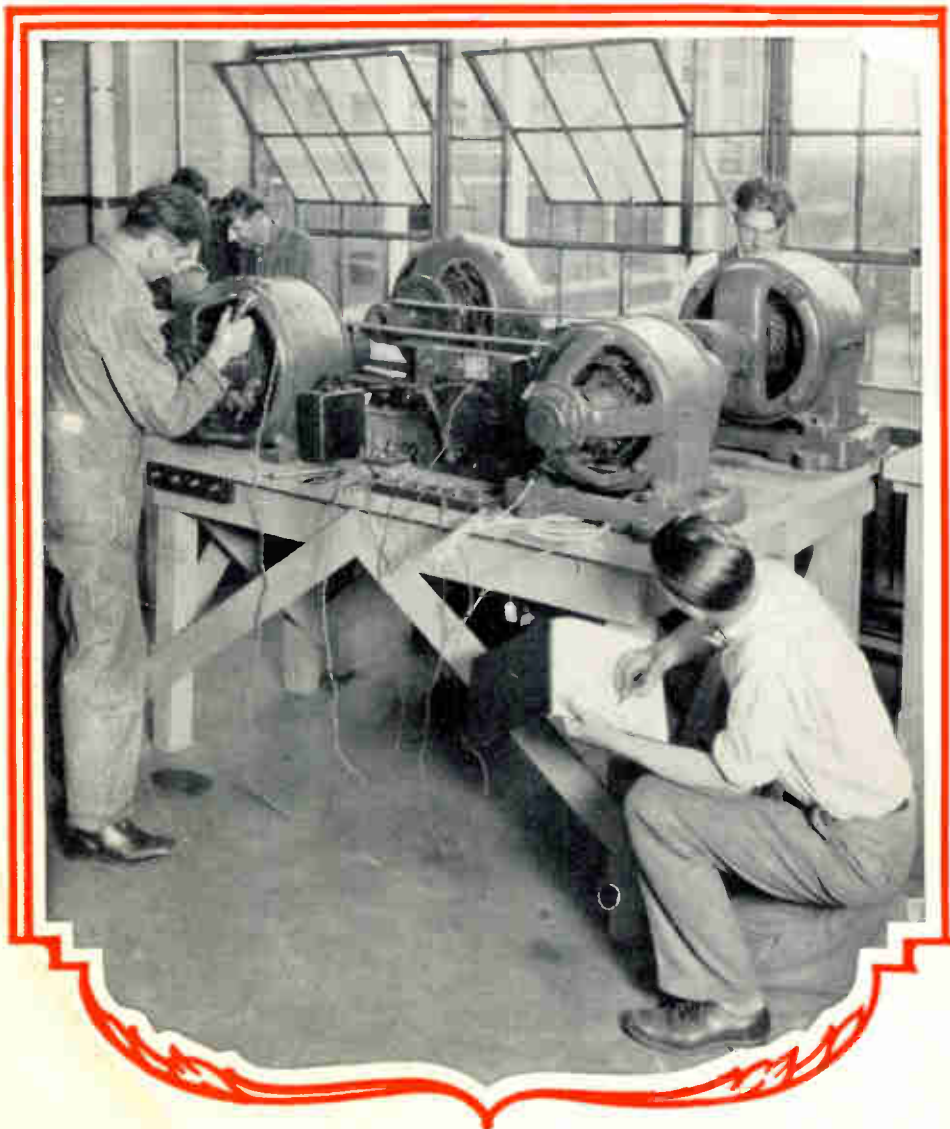


Here is a general view of the D.C. department showing Coyne students wiring up, operating and testing motors and controllers of all common types. These interested students give you an example of the value of learning electricity by the Coyne Practical-Technical method of training.

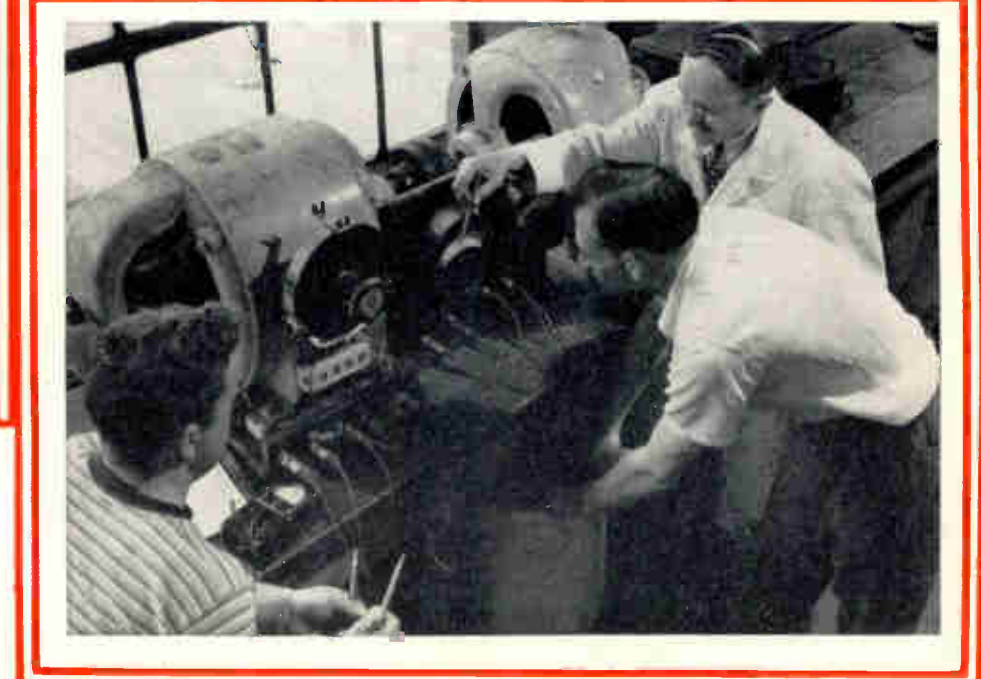
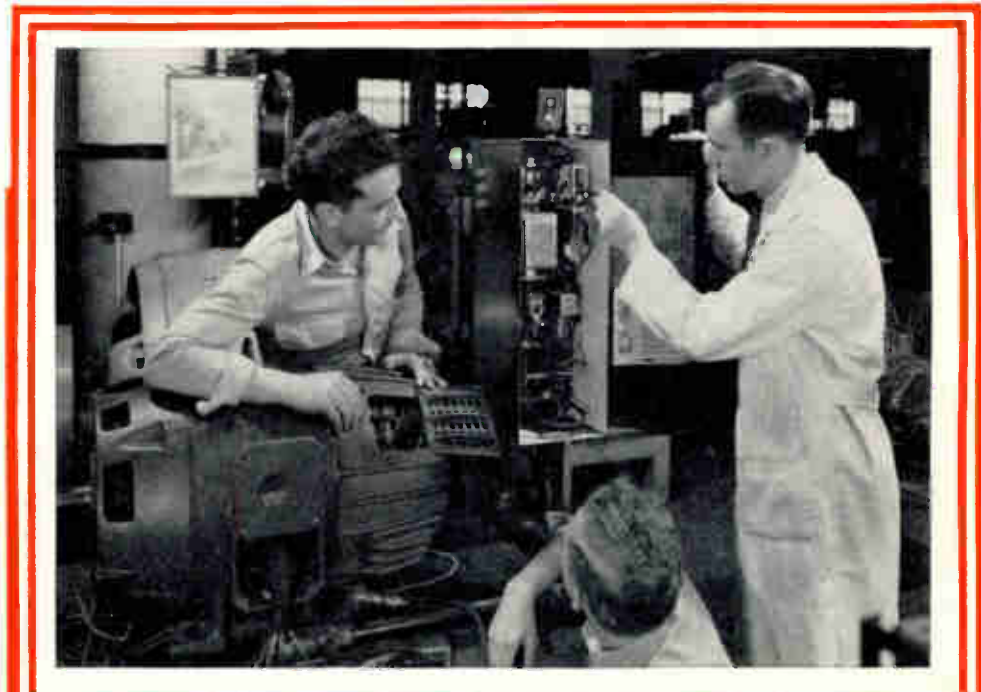




Here are students getting real operating experience on a large power D. C. Switchboard. They are taught to connect and operate generators in parallel, and to take care of circuit breakers, switches and instruments. This kind of training is valuable in power plant or substation operating work, and many of our graduates have good jobs doing this work.



These students are operating and testing motor generator sets and measuring the output of these units.



Upper view shows students connecting an automatic starter to a 15 H.P. D. C. Motor. In the lower view students are checking the performance of a motor generator set under various loads.





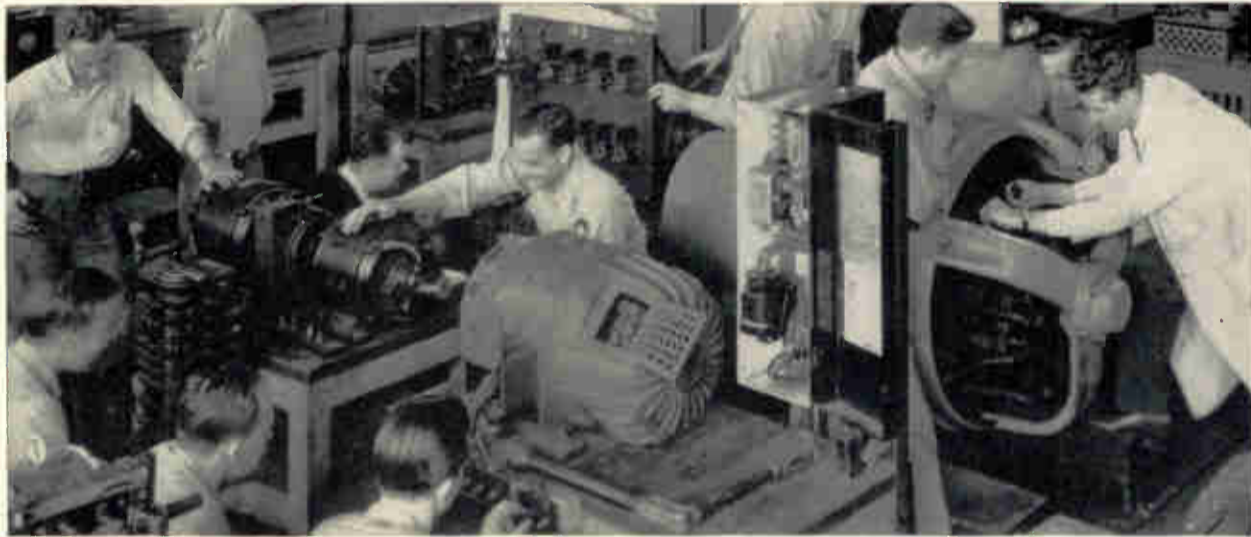
This is how our students get training on relay and control equipment, and are taught how to quickly locate trouble, so they can save time and money for their employer on the job.



These students are checking the operation of an automatic controller and compound motor. They are making the same test and repairs they may be called upon to make in the field.

### Over 50 Years of Training Experience

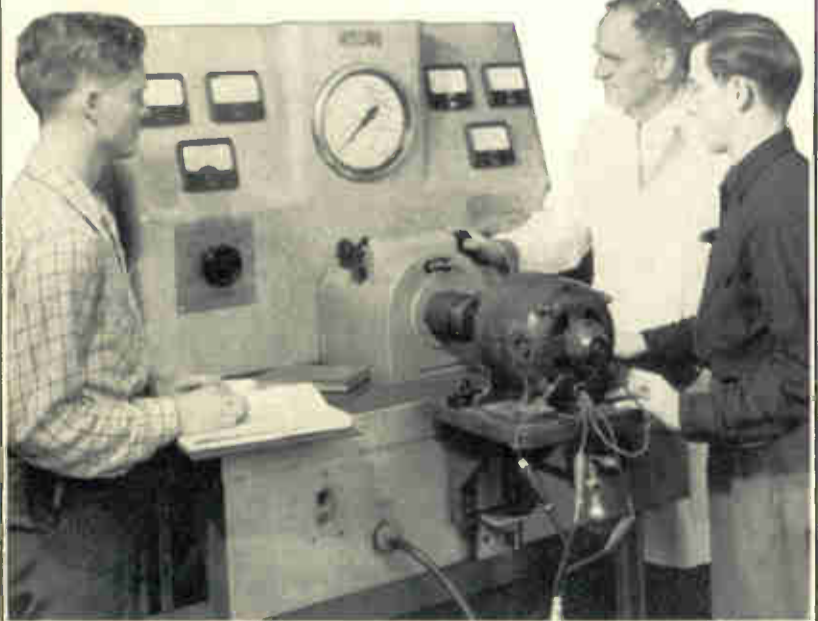
COYNE has a background of over HALF A CENTURY of training experience in training men and young men for better jobs. It was established in 1899 and has been in continuous operation ever since. We have kept pace with the tremendous growth of ELECTRICITY, constantly adding new equipment and new features to the training offered in our school, to meet the requirements of industry.



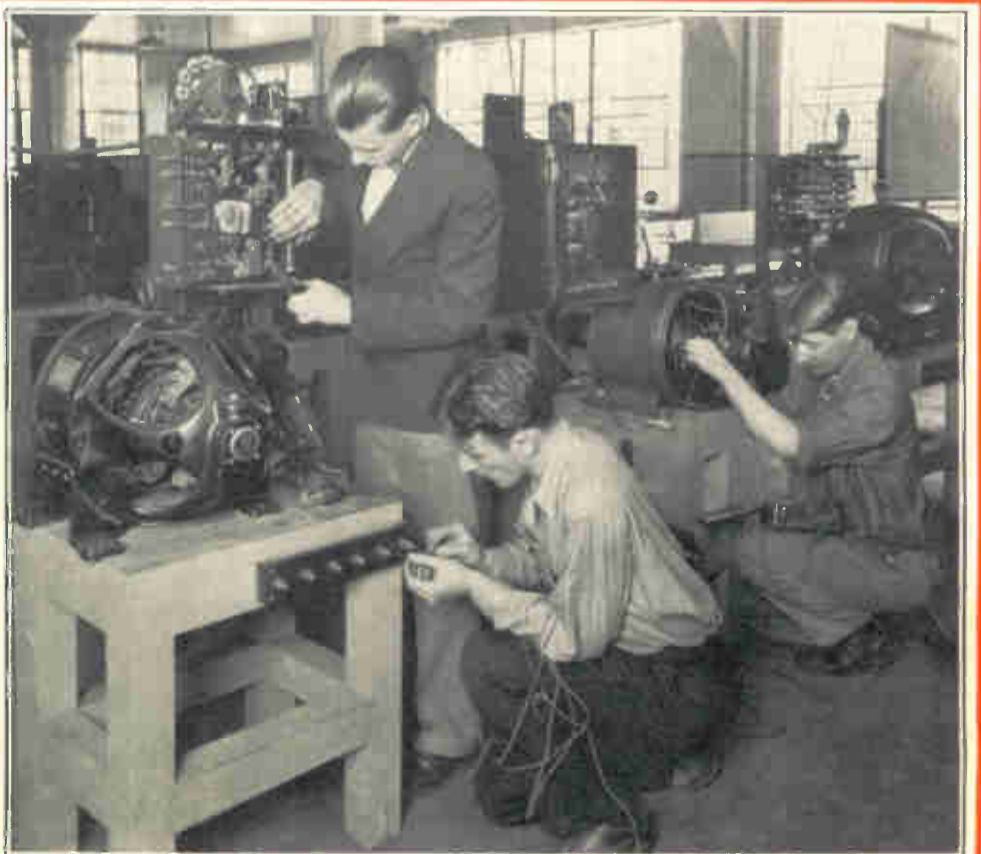
Here you see several students testing and operating D. C. machines. The large machine at the right is used to make practical demonstrations of dynamic braking on large motors. These students doing work on various jobs are fellows who a short time ago may have known nothing about this work. But this is now easy for them, because they have reached this department step-by-step.

### Coyne Training Is Practical

COYNE DOES NOT TEACH BY MAIL — neither do we have you study printed lessons at home for a part of the Course and then have you come here for a short visit for just a smattering of practical work. You get all of your training right here in our Chicago Training Shops under the guidance of a staff of trained instructors. That's the COYNE method of training and the right method proven by over half a century of training experience.

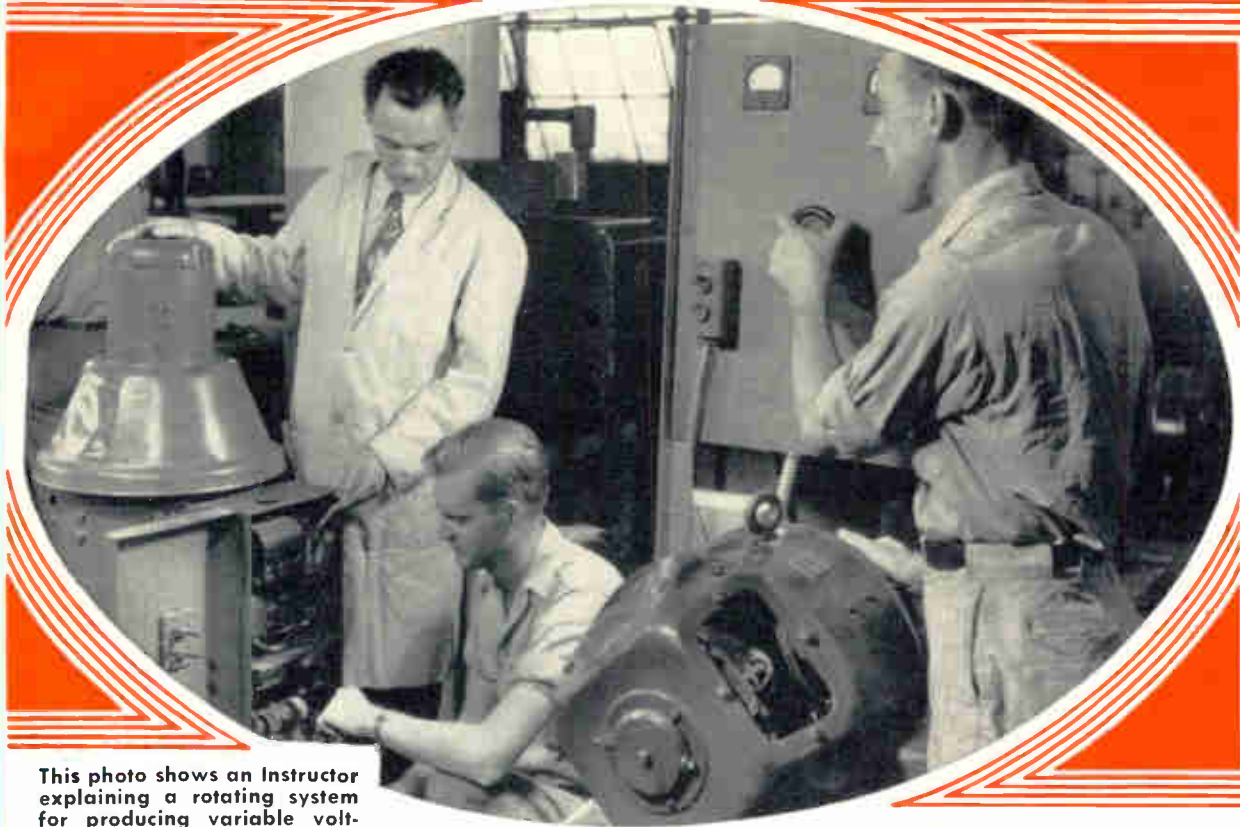


These Coyne students are testing the efficiency of a motor with a modern Dynamometer, a type used extensively in industry for testing A.C. and D.C. motors.



These students are wiring up and operating magnetic controllers, and testing their operation right with the motors.





This photo shows an Instructor explaining a rotating system for producing variable voltages used in obtaining a wide range in motor speeds. These units are used extensively in Textile, Food, Metal, Paper, Printing, Rubber, Machine Tool, Wire and Cable industries.



This shows a student getting training on the operation of a lathe used for truing up commutators on armatures. The instructor shows students how to grind and set the cutting tool, and how to make a nice smooth cut on the copper.

### Got Two Promotions

"Since leaving school, I have had two really nice promotions and a promise of a third starting next month. I'm now classified as a Class A Electrician which to me is good. I can't praise Coyne and the instructors enough for the wonderful training they gave me. Thanks ever so much for all your fine cooperation in the past . . ."  
—L. H. F. BEHM, Ohio



After the students have wound their Armatures they get a chance to check their jobs to see if the Armature will operate. The students in this picture are testing their complete Armatures for shorts, open circuits, or grounds with the use of growlers.

### "Schooling Has Paid Off"

"Just received my March issue of Graduate News. I look forward to it as a tie with Coyne and its activities. Since graduating, I worked at an . . . Aircraft Co. and then three years in the Navy . . . as an electrician. For the past two years I've been employed by . . . here in my home town. I started as assembler and am now in charge of Assembly and Testing of all burners we make . . . my schooling has paid off."— H. B. ROHRER, Penna.



This is a view of a part of the Armature Winding bench. Notice that these students are winding Armatures with actual wire. After they have wound their Armature, it is mounted in a motor housing and checked under actual operating conditions.



Above you see a group of students learning how to use a Commutator Undercutting Tool and the proper procedure in undercutting the mica of a Commutator. This kind of real practical training teaches them the proper use of equipment and proper methods to save time and do first class work.



# These 4 Pages Show You Views of Our . . . . **ALTERNATING CURRENT DEPT.**

**O**N THIS and the next three pages I give you a brief description of our training in the ALTERNATING CURRENT POWER AND STATOR WINDING DEPARTMENT.

The many applications of A.C. equipment constitutes one of the most popular and profitable lines of work in the Electrical field. In this Department you learn to service, operate, and repair equipment that is used in thousands of great electrically equipped factories and industries. You will have actual A.C. Power apparatus to work on and you will learn and remember what YOU LEARN. MORE EASILY BECAUSE YOU HAVE DONE THE WORK WITH YOUR OWN HANDS, RIGHT ON THE EQUIPMENT.

## **A. C. Power Motors and Power Equipment To Work On**

**Y**OU start wiring and testing small motors and then gradually progress to the larger machines. You change the connections and reverse the motor; make tests to determine how a motor acts when a connection comes loose. You will test an induction motor for efficiency and power factor.

The training you get in this Department on motors, controllers, generators, transformers, switchboards, outdoor type sub-stations, transmission lines, lightning arresters, circuit breakers, ALL HELP TO MAKE THIS DEPARTMENT FASCINATING, ENJOYABLE AND EXTREMELY VALUABLE.

You learn how Alternating Current Genera-

tors operate, how to care for them, wire, test, and repair them. You get real Switchboard operating practice on a large power Switchboard, operate the generators and control the power for the equipment associated with the switchboard.

You are given valuable training in modern maintenance methods. How to locate and correct faults before they become serious and perhaps cause an actual shutdown and loss of time and money in some plant where you may work.

## **Experienced Helpful Instructors Work With You**

**W**HEN you finish a job, your instructor asks questions about it to check up and help you to be sure you know the important points.

Making sure that you thoroughly understand each job you work on before you move in to the next one is an important phase of Coyne training. That's why you'll find that an instructor is always ready to explain any part you may not thoroughly understand.

The assistance given to students by our instructors is one of the important features of our training. Our instructors are selected for their patience, understanding and consideration to students, in addition to their knowledge, experience and ability to teach as well as work right with and help our students throughout the course of training.

It is this, plus the large outlay of Electrical training equipment, along with our many years of experience and our system of the combina-

tion of technical training, theory and practical training, that has made COYNE so successful.

## **A Popular Field of Many Opportunities**

**A**S I said at the beginning of this page, the many applications of Alternating Current equipment constitutes one of the most popular and profitable lines of work in the Electrical field. Almost every large and modern Factory, Industrial plant, Railroad, Textile mill, Packing plant, etc., uses from dozens to hundreds of Electric motors and controls in the operation of their machinery.

Most of these plants employ several Electricians and other large plants employ from several dozen to several hundred maintenance men, motor inspectors, trouble shooters, and repairmen. Electrical Utility Companies and Generating stations employ many thousands of Power Plant and Sub-station Operators to operate and maintain their switchboards, generators, transformers, and auxiliary electrical equipment. YOUR ACTUAL SHOP TRAINING IN THE OPERATION AND CARE OF REAL POWER EQUIPMENT HERE AT COYNE IS DESIGNED TO PREPARE YOU FOR THIS INTERESTING LINE OF WORK.

After studying the A.C. Department pictures and descriptions of the pictures on the next 3 pages, you will then come to the description of our INDUSTRIAL ELECTRONICS DEPARTMENT which is pictured and described on pages 18, 19 and 20.

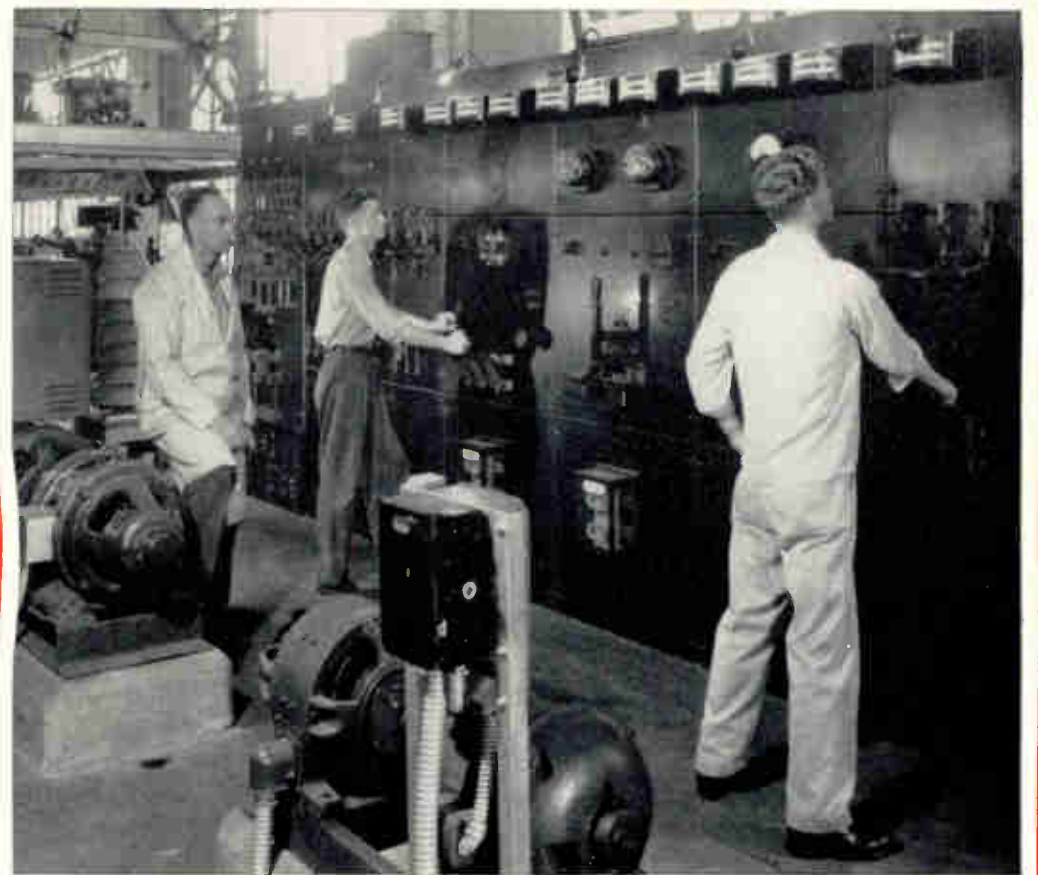


Here is a general view of the A.C. Department. You can see how interested these students are in wiring up, operating and testing A.C. motors and controllers of all common types. These machines are supplied with power from the generators right in this department.

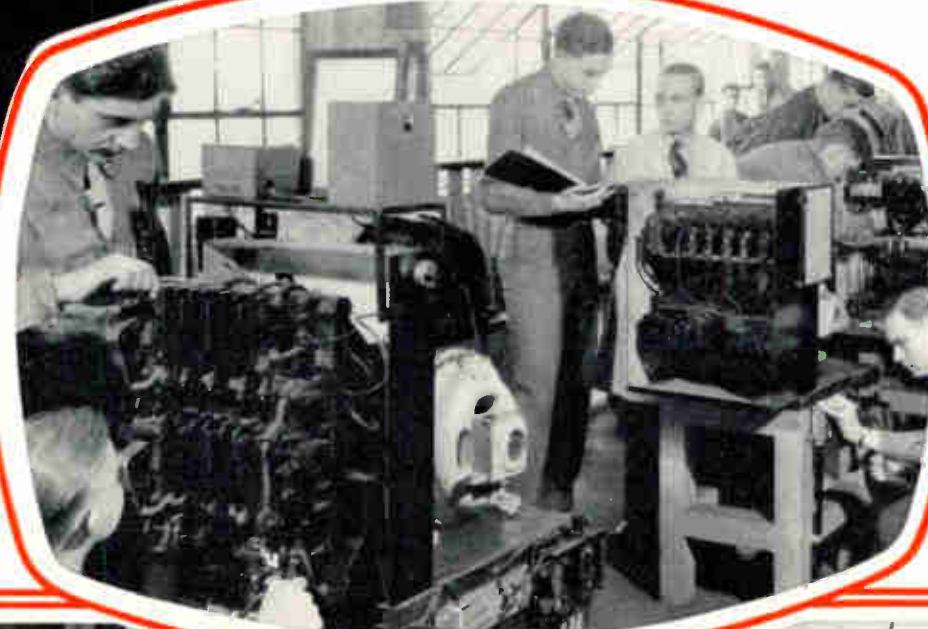




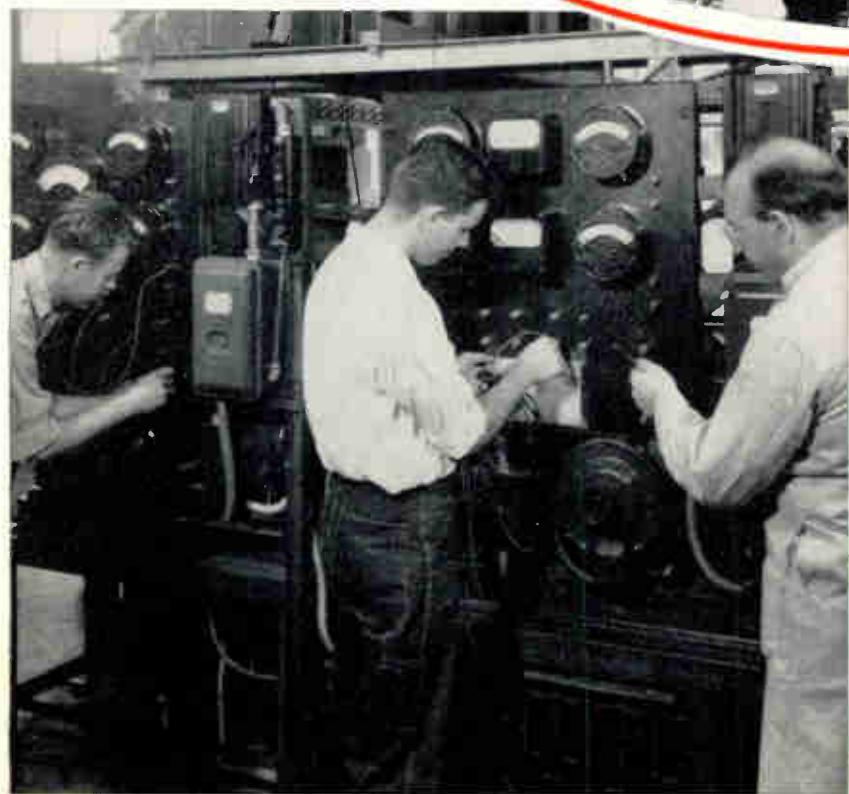
Real practical work overhauling and repairing an A. C. induction motor. When you understand the working parts of such equipment you have confidence in your knowledge of this work.



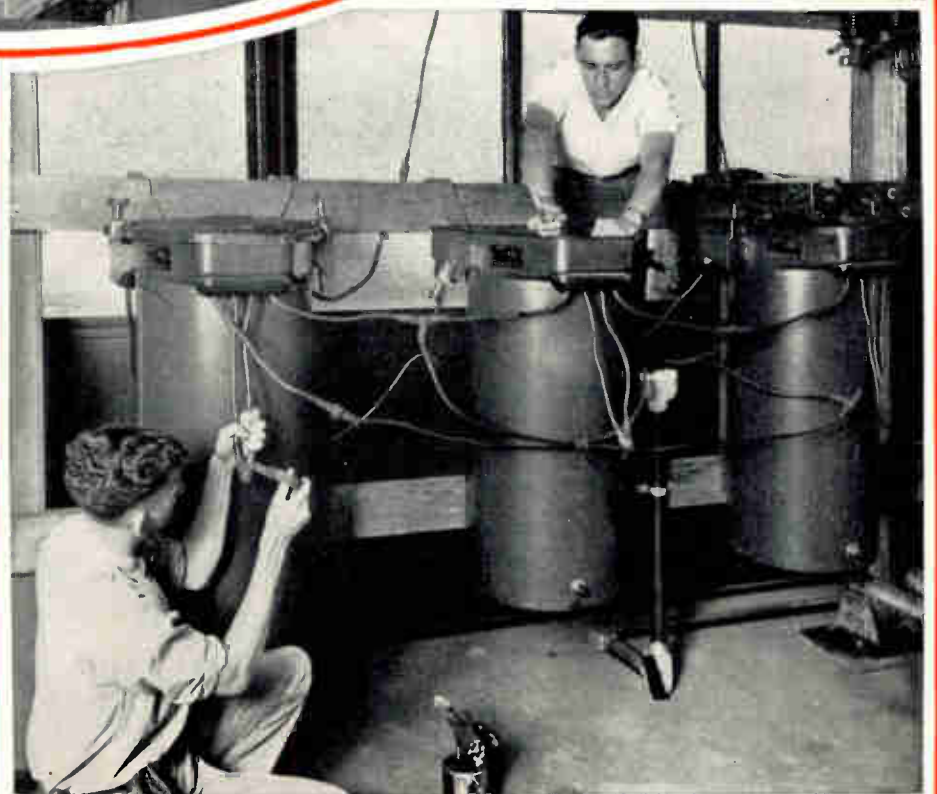
The students above are getting actual operating practice on a large A. C. Switchboard. Here they are taught the operation and care of meters, circuit breakers and switches, and how to synchronize and operate alternators in parallel.



The photo to the left shows students learning care and adjustment of automatic and remote controlled A. C. motor starters, relays, contactors, coils and other equipment in the Coyne Alternating Current Department.



Here you see students making Power Factor and Efficiency test for three phase induction motor. These tests are used to determine horse power output of motor and Power Factor correction necessary to obtain minimum power rates.



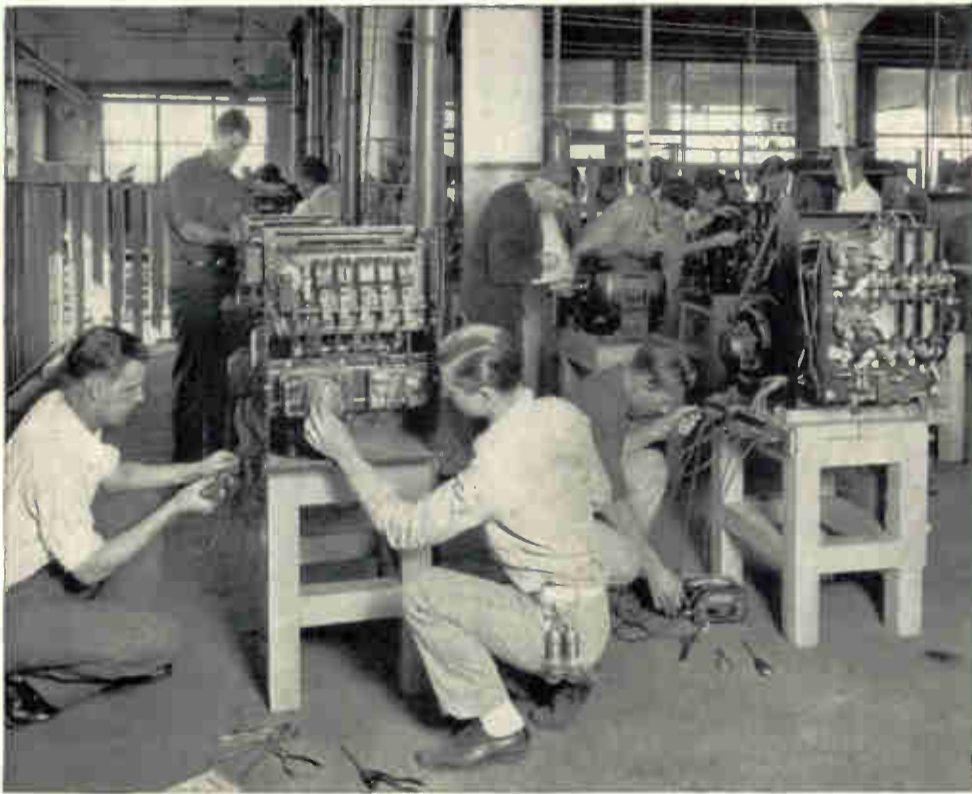
These students are connecting up a bank of power transformers for 3 phase operation, in the outdoor type substation in this department.





Here you see a view of the Stator Winding section. Notice that real wire is used in winding these stators. Actual winding and testing of Alternating Current motors gives you the practical training you need in this work. Motor repair work of this kind is often necessary in Electrical maintenance jobs in Power Plants, Factories, Stores, Office Buildings and, in fact, wherever Alternating Current motors are used.

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

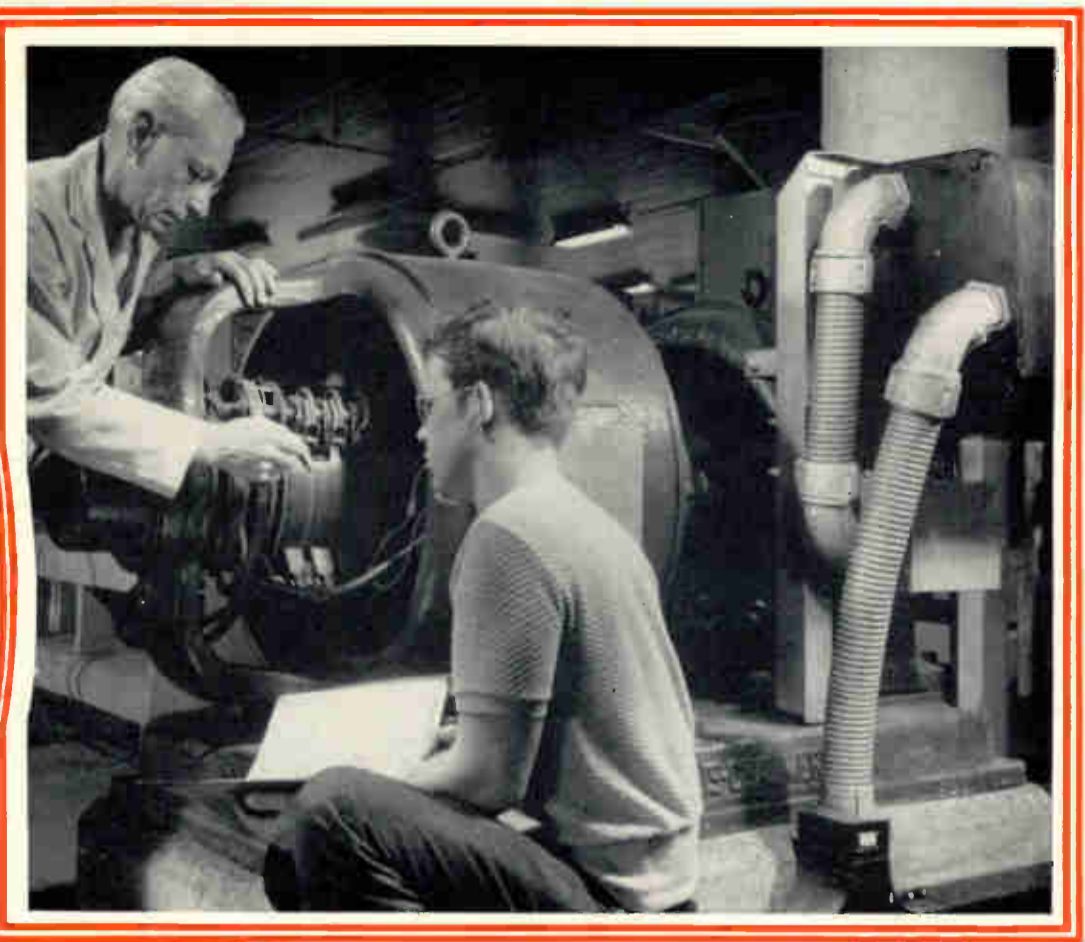


And here we have different types of modern automatic, remote control equipment for A. C. motors. These men are getting acquainted with these controls and their care and operation, by wiring them up and testing them out with the motors.



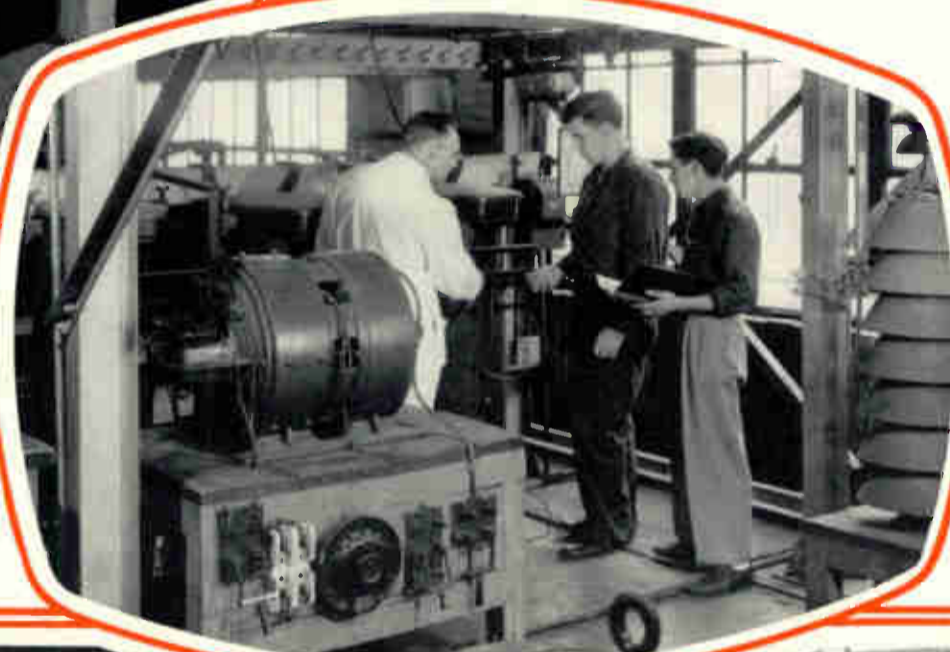
The above photo shows an Instructor explaining the operation and adjustments for synchronous type motor and students preparing to make tests. This unit is used for correcting Power Factor. Every trained maintenance man should be familiar with this type of work.



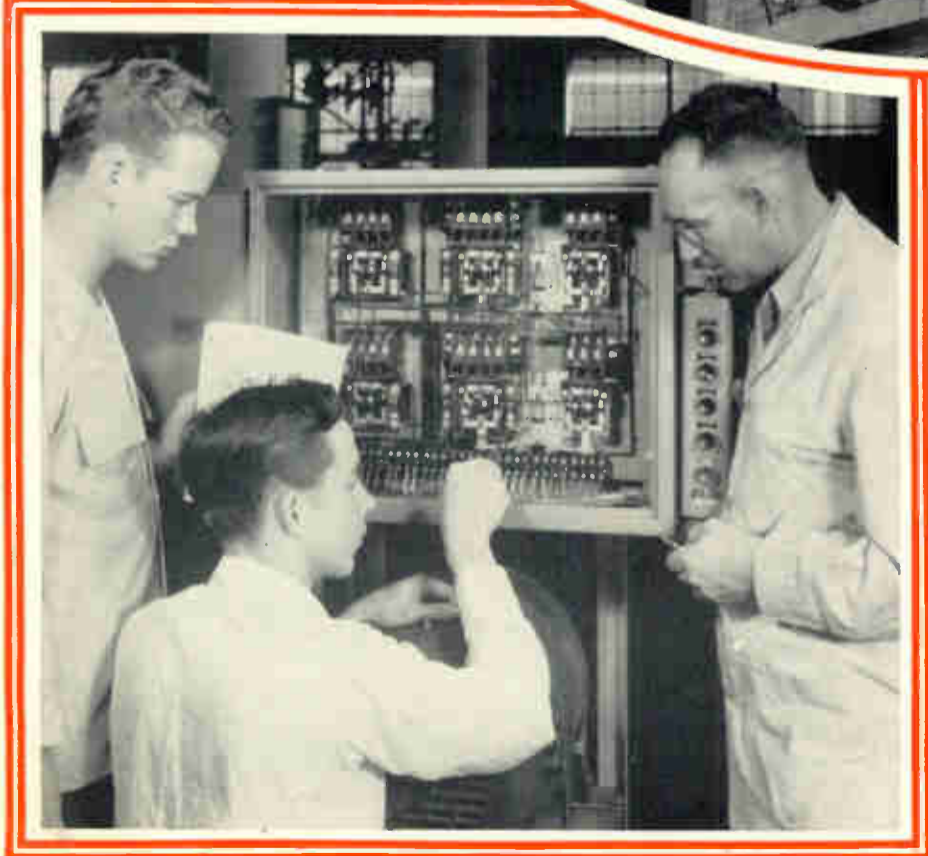


Instructor explaining operation and testing of a large Motor Generator in our Alternating Current Department. This type of personal instruction on real Alternating Current Power Equipment is the kind of instruction that makes a fellow more valuable when he is in the field working on an electrical job.

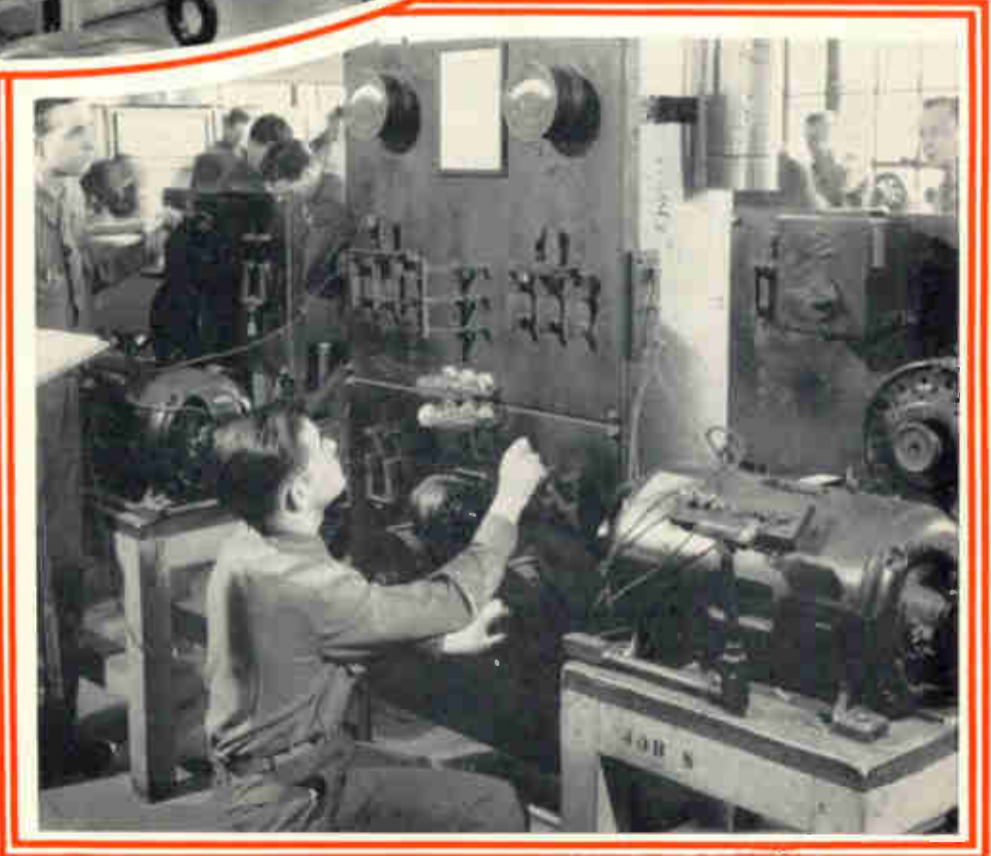
The picture above shows an instructor explaining the operation of an A.C. Motor and Control equipment with which these students are working. Actual experience on such interesting equipment is of great value to the student.



This is an outdoor type Substation Structure and these students are connecting the Transformers, and becoming acquainted with this type of equipment.



The picture above shows students working with and getting instruction in the operation of a Remote Control A.C. Magnetic Starter and an A.C. Motor. The opportunity to work on a wide variety of types of equipment makes Coyne training more valuable to the student when he gets out on the job.



These students are getting practical instruction in the use of Lamps and Meters employed to synchronize A.C. Generators in our Alternating Current Power Department.



# Then You Move On to the Dept. of Basic INDUSTRIAL ELECTRONICS

**Y**OU ARE now ready to enter one of the MOST FASCINATING DEPARTMENTS of the entire course—the tremendous new development that has grown up almost overnight around the Electronic Tube—INDUSTRIAL ELECTRONICS.

ELECTRONICS has been rightly called "THE MARVEL OF OUR AGE." It can HEAR, FEEL, TASTE, REMEMBER, MEASURE, COUNT AND TALK. It can't think, of course, but in most of its applications it is more keen and more accurate than the human senses.

In sight, for example, we can't see beyond the horizon, we can't see through fog, through clouds or in the dark. But, the Electronic Tube can—in fact, it can "see" through wood walls, brick, steel and stone, and detect flaws, for example, that nobody could see with the naked eye.

## Amazing New Developments Perform "Magic" for Industry

**T**HE many new amazing developments in the field of INDUSTRIAL ELECTRONICS are changing production methods in almost every industry.

In factories, cotton mills, printing plants, steel mills, railroads, knitting mills, fruit packing houses and many other various industries, THE MAGIC ELECTRONIC TUBE is assisting industry to increase production.

ELECTRONIC DEVICES, for example, analyze and detect colors; ELECTRONIC devices control high-speed wrapping of packages, fill bottles to the proper level, inspect candy, check packaged goods, grade fruits according to size, check golf balls, fill tooth paste tubes, check tires for flaws, sterilize foods, inspect razor blades and perform dozens of other industrial operations.

ELECTRONIC CONTROLS open and close circuits, open doors, stop or start machinery, reverse rolls in steel mills, control heat, air, smoke, dust, and temperature. ELECTRONIC

TUBES turn on highway lights when darkness appears and turns them off when daylight returns. Other types of ELECTRONIC TUBES inspect metals, classify cotton, wool, silk and other natural and synthetic fibers.

## Development of Electronics Creates New Opportunities

**T**HE DEVELOPMENT OF ELECTRONICS HAS NATURALLY CREATED NEW OPPORTUNITIES IN THE ALREADY GREAT OPPORTUNITY FIELD OF ELECTRICITY, as trained Electrical men with a knowledge of Industrial Electronics are needed for installation, service and maintenance of this equipment.

Here in the INDUSTRIAL ELECTRONICS Department you get an explanation of the application of vacuum and gaseous type tubes that do the testing, sorting, comparing, counting, processing, rectifying, alarm protecting and control problems encountered in industry.

You learn about electronic tubes and their functions. Basic operating principles of electronic tubes of the various types. Discussion of the varied constructional features that adapt tubes to different applications; the use of high vacuum and gaseous type industrial tubes to determine their characteristics and their suitability for certain control applications.

You get instruction on vacuum tubes, gas filled tubes, thyatron tubes and ignitron tubes.

You learn about timing circuits and time delay by electronic means. Types of time delay devices and electronic trigger circuits; the function of the resistor and capacitor combination in effecting time delay. Time and Phase shifting circuits and their applications to timing and control. Testing and adjusting of time delay units.

## Photocell Controls

**T**HEN you are given instructions on the photocells and photocell controls, the construction and operating principles of vacuum

and gaseous type photocells, the study of the characteristics and application of different types of photocells; the application and construction of photocell controls to alarm systems, electronic counting devices, door openers, labeling machines, sorters, smoke detectors and various control and processing operations and the testing and repairing of Electronic equipment.

## Knowledge of Industrial Electronic Circuits Essential to Electrical Men Today

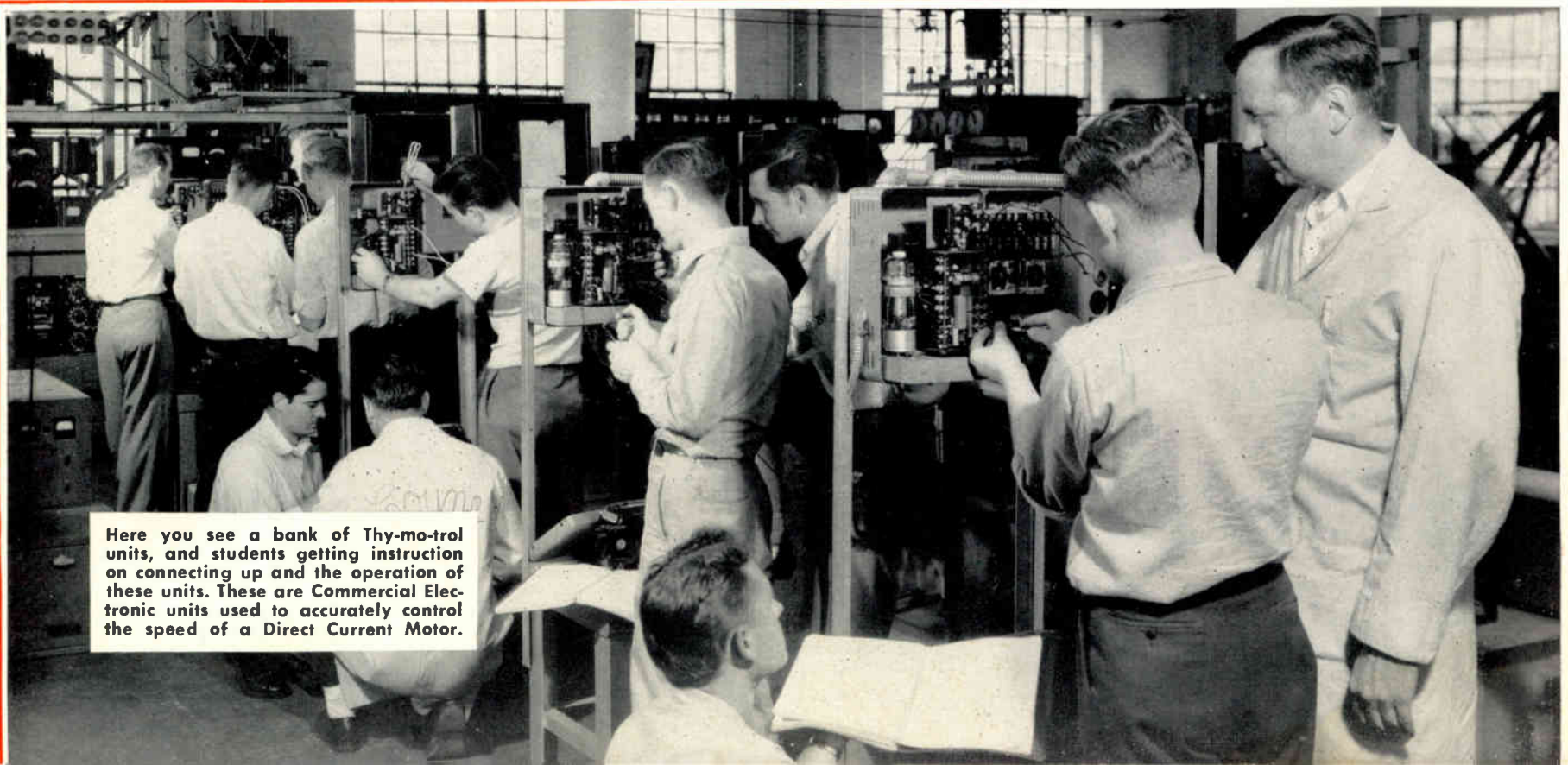
**B**ECAUSE of the importance of INDUSTRIAL ELECTRONICS today, any fellow who is training and preparing for a future in the Electrical Field, WOULD MAKE A BIG MISTAKE IF HE DID NOT INCLUDE TRAINING IN INDUSTRIAL ELECTRONICS. That is why we include instruction in this vital field with our Electrical course to open up greater future opportunities to Coyne Graduates.

## Excellent Opportunities for Men with a Well-Rounded Electrical Training

**W**HEN you complete the training in the Industrial Electronics department you will realize how valuable this training is and how it can add to your opportunities in the fast growing, progressive opportunity field of ELECTRICITY—a field that should continue to offer greater and greater opportunities to the trained man in the years to come.

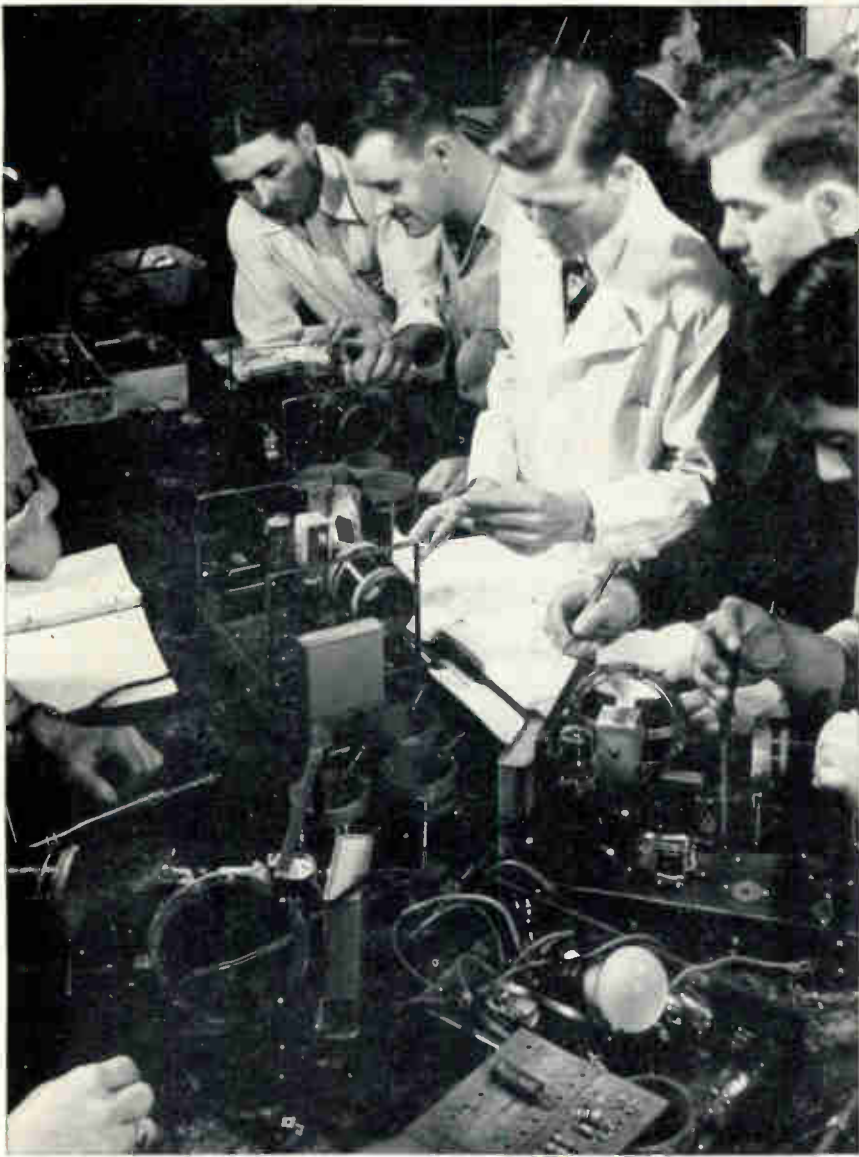
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**T**HE next department covers training in Electric Refrigeration. This interesting and profitable work is really a field in itself. Training in Electric Refrigeration offers many additional opportunities when training for this field is combined with training in Electricity or Television-Radio.



Here you see a bank of Thy-mo-trol units, and students getting instruction on connecting up and the operation of these units. These are Commercial Electronic units used to accurately control the speed of a Direct Current Motor.





The picture above shows one of the work benches in our Industrial Electronics Department showing students building Basic Electronic Circuits from parts that are furnished them. Notice the personal attention one of the students is getting from an instructor. This personal help is a very important part of the training program here at Coyne.

The picture below is a general view of our Industrial Electronics Department — one of the most fascinating departments in the entire school. This newer branch of Electricity is becoming more and more important and a knowledge of this application of Electricity is becoming more and more important to the Electrical man out in the field.



The Ignitron Tube has proved invaluable for use in Electronic Switches, Welding Controls, and many other applications. The photo above shows students getting practical experience and instruction in the operation of this Electronic Tube.



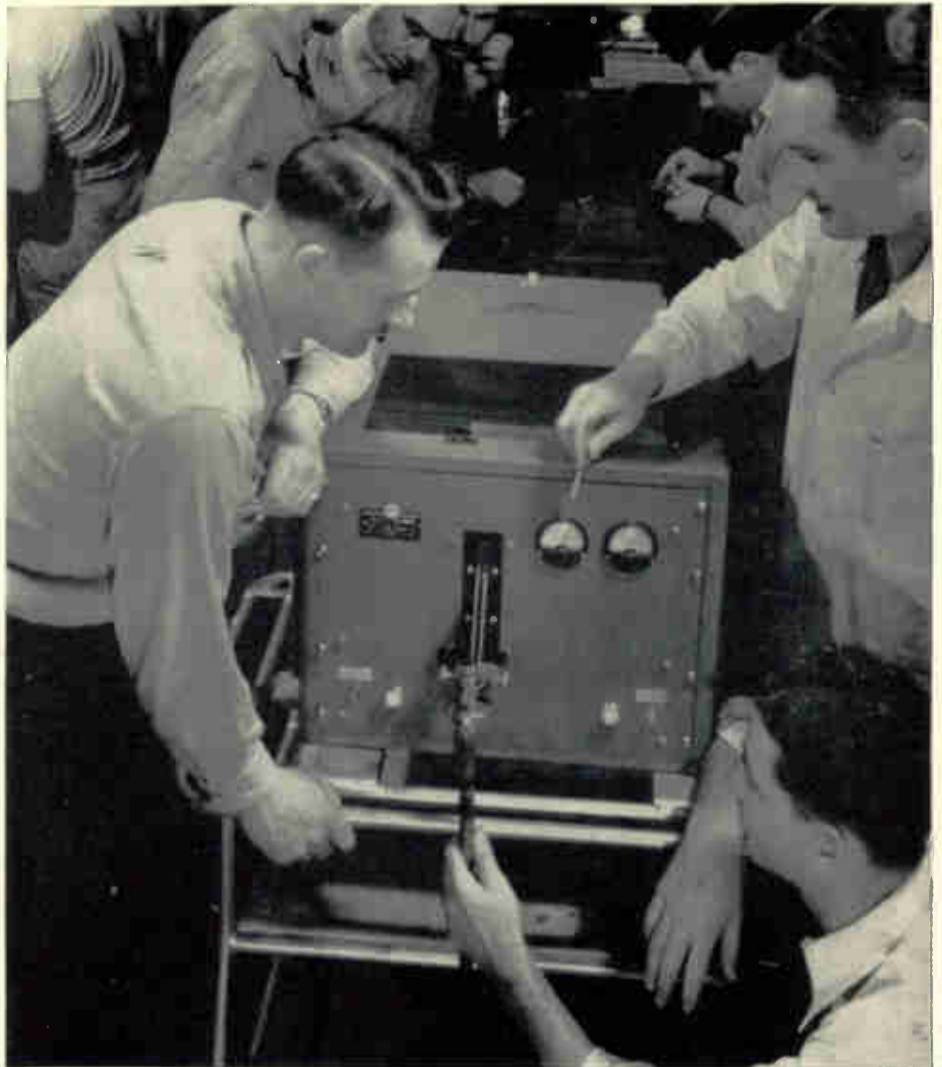
This picture shows a group of Coyne students testing Copper Oxide Rectifiers. This unit is a very important part of a large number of Industrial Electronic Controls, so it is important for the Electrical man to understand the use and application of this equipment.



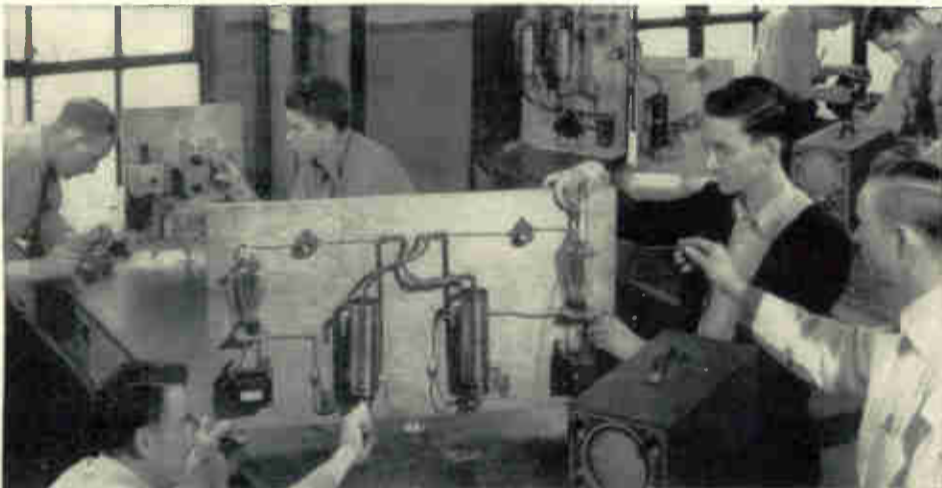




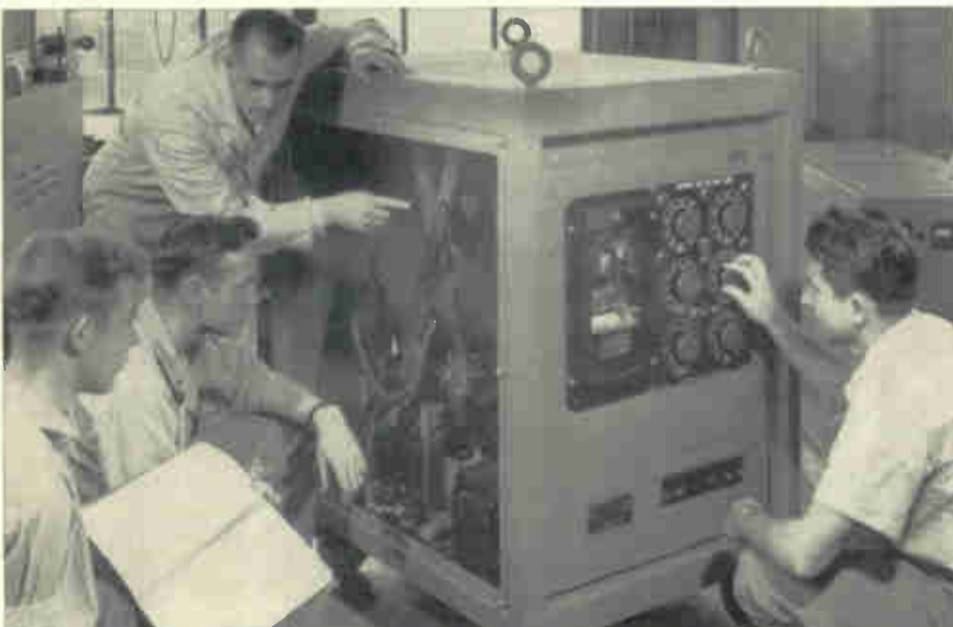
This picture shows students getting instruction on the operation of a Dielectric Heating unit used in plastic moulding and sealing of Vinylite material for raincoats, aprons, tablecloths, etc.



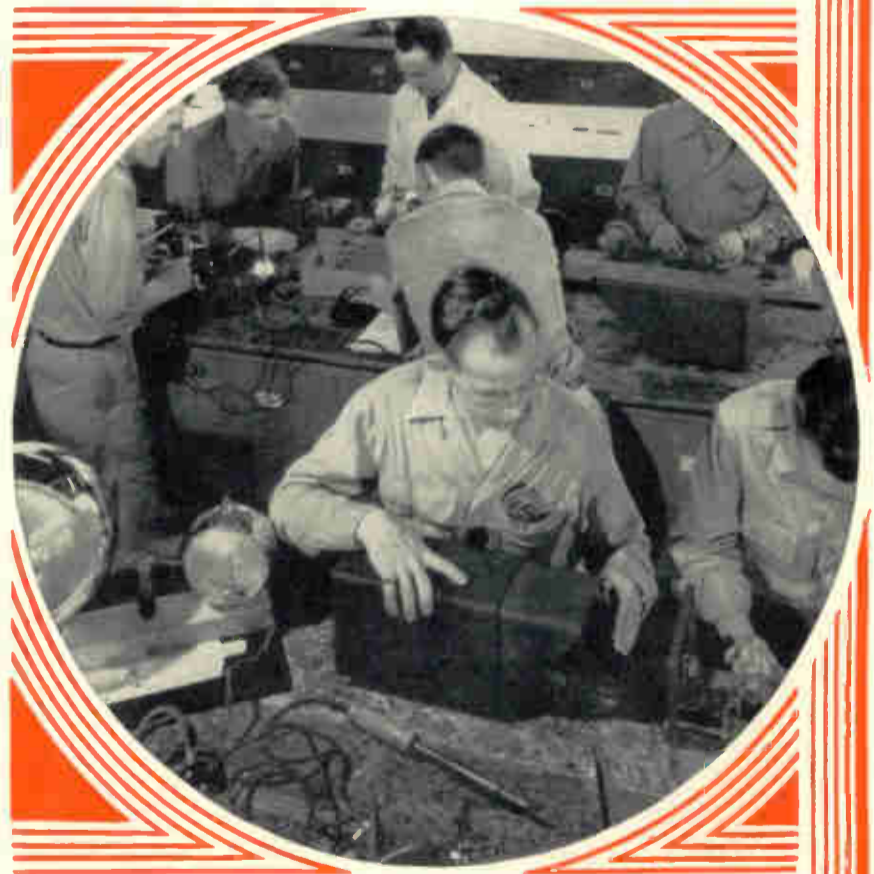
This picture shows one of the most interesting and fascinating of the Industrial Electronics applications. The unit shown is a commercial High Frequency Induction Heater of the type that is used for soldering and heat treatment of metals. The upper part of a metal pipe, when held in position as shown above, gets red hot in a few seconds.



This photo shows students working with Thyatron Tubes with the personal help of an instructor. Personalized instruction and practical "Learn-By-Doing" training helps you make rapid progress in Industrial Electronics here in the Great Shops of Coyne.



The above photo shows an instructor explaining the operation of an Electronic Resistance Welder Sequence Timer. Industrial Electronic equipment is becoming more and more important and is being used extensively in various industrial operations. That's why the training you will get in this department is so important to you.



The various applications of Photocell Controls and Timing Devices are becoming more and more important industrially. These are some of the most commonly known applications of Industrial Electronics. The photo above shows Coyne students working with Photo Electric Cells and other control apparatus.



# Now You're Ready for Training in . . . ELECTRIC REFRIGERATION

**B**ECAUSE we believe every Coyne Graduate should be equipped with training to add to his opportunities wherever possible we have arranged for students to get this training in Electric Refrigeration with our Electrical or Television-Radio Training.

## Many Types of Refrigeration Units

**H**ERE you get training in the operation, care and repair of many types of interesting Refrigeration units under the personal supervision of an experienced instructor who shows you step-by-step how to do the work on well-known units of different types. The photo at the bottom of this page pictures a section of our Refrigeration Department, showing you the many various types of Refrigerators on which students get training.

We have included instruction on both old type and new type Refrigerators so that students will be familiar with the many different types of Refrigerators they will come in contact with out in the field after graduation.

This type of practical-technical training on many various Refrigeration units gives Coyne students the confidence that they will be able to do Refrigeration Service and Repair work when they graduate.

## Students Do Actual Refrigeration Jobs

**T**HE photo at the bottom of this page and those on page 22 show Coyne students getting training in many types of Refrigerators which includes the PRINCIPLES OF REFRIGERATION, nature of heat and cold, heat-transfer and absorption; evaporation of liquids; pressures and temperatures, heat insulation, refrigerant chemicals and their properties, Refrigeration cycles. Types of Refrigerator units and systems, reciprocating and rotary

type compressors, dry and flooded evaporators, condensers, control valves, thermostats and switches, shaft seals. Practical shop work on tube flaring and connections, vacuum and pressure tests, gauges. Overhaul and repair of compressors, controls, valves, seals, thermostats, etc. Assembly, disassembly and testing of various household units.

**COMMON REFRIGERATOR TROUBLES AND THEIR SYMPTOMS.** Condensers, stiff compressors, low oil, low refrigerant, defects in motors, fuses, control valves; air in system, clogged strainers, moisture in system dryers, purging, charging. Service tests and service methods and equipment. Multiple installation methods, trouble shooting and repair.

## Students Work on Actual Equipment

**Y**OU follow the same "Practical Method" of training in the Electric Refrigeration Department as you do in the other departments. First you get your technical training and theory through interesting lectures, supplemented with blackboard diagrams, equipment demonstrations, etc. Then after each lecture period you apply this knowledge by working jobs right on the Refrigeration equipment.

We have provided many types of Household Refrigerator units for you to work on.

## Electric Refrigeration Offers Exceptional Opportunities to Trained Men

**E**LECTRIC Refrigeration is a great expanding field. In the last few years the production and sale of various types of Electric Refrigeration units has increased many times. Millions of homes are yet to be equipped with Electric Refrigerators and Deep Freeze Units. Deep Freeze Units recently put on the market for

home use open up many additional opportunities in this great field.

## Excellent Training for Graduates Going into Business

**E**LECTRIC REFRIGERATION has had a steady growth ever since it was first introduced and is now one of our important industries. New developments continue to expand this growing industry. It is only natural that the trained Electrical or Television-Radio man will greatly benefit in increased opportunities through a knowledge of Electric Refrigeration. This is particularly true for the fellow who wishes to work for a service organization or to go into business for himself.

So fellows getting this training will have many additional opportunities for a good job and a real future. To the fellow who goes into business for himself it offers many opportunities for additional business and profit.

In addition to servicing and repairing Electric Refrigeration units additional income can be made from sales of new Refrigerators, Deep Freeze Units, and other Refrigeration equipment.

These units have controls, switches, compressors, evaporators and other apparatus and equipment which must be serviced and repaired from time to time by experienced trained men.

**BECAUSE WE WANT YOU TO GET THE BEST POSSIBLE PRACTICAL TRAINING AND PREPARE FOR THE GREATEST NUMBER OF REAL OPPORTUNITIES WE OFFER THIS VALUABLE TRAINING WITH OUR ELECTRICAL AND TELEVISION-RADIO TRAINING.**

Be sure to see the pictures of Coyne Students working out jobs right on the actual Refrigeration Equipment as shown below and on the next page. Read the captions under each picture which explain what the students are doing.

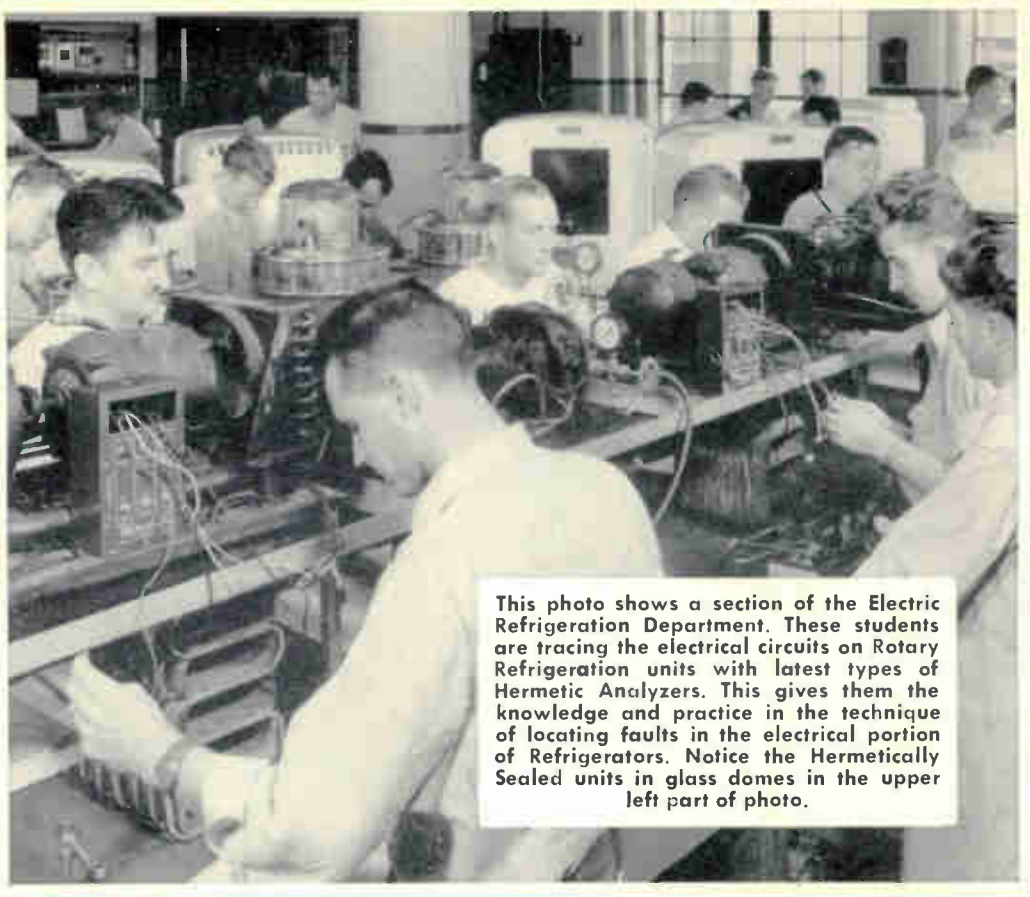


This photo is a general view of our Electric Refrigeration Department. Notice the late type modern home Refrigerators on the right and upper part of the photo. Students get instruction on both new and old type so they will be familiar with similar types they'll find out in the field.





Here you see a Coyne instructor giving instruction and a demonstration on a unit, illustrating the principles in multiple units used in many apartment buildings.



This photo shows a section of the Electric Refrigeration Department. These students are tracing the electrical circuits on Rotary Refrigeration units with latest types of Hermetic Analyzers. This gives them the knowledge and practice in the technique of locating faults in the electrical portion of Refrigerators. Notice the Hermetically Sealed units in glass domes in the upper left part of photo.



The photo to the right shows students charging a Refrigerator unit under the supervision of an instructor. This type of experience gives students the confidence to do these jobs out in the field.

### There Are Unusual Opportunities for Trained Men in the Electrical Field

I am sure that after reading about the training in our Electrical Departments and studying the pictures of our training shops you will realize the many advantages of Coyne practical-technical training and realize that this is the kind of training you need for a bright and successful future in the great field of Electricity.

On the following page I tell you about just a few of the many opportunities in various branches of the Electrical Field that are available to trained Electrical men. **THEN WE'LL CONTINUE OUR TRIP ON THROUGH THE TELEVISION-RADIO DEPARTMENTS OF THE COYNE SHOPS.**



This photo shows the set-up for giving students training and practical experience in cutting and swedging copper tubing. An instructor is always handy to answer questions or make clear any particular operation.



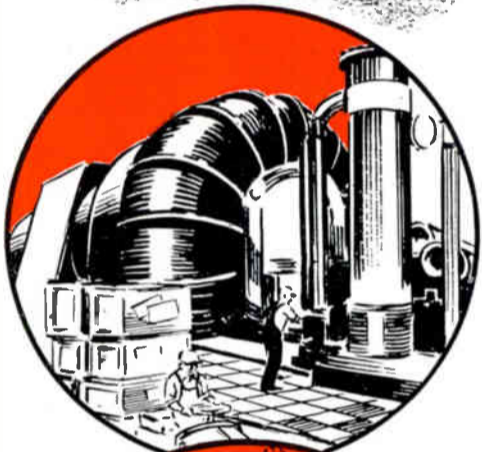
Here you see a group of students getting instruction and practice in setting Pressurestats, (Cold control) for various pressures and temperatures. Training in our Electric Refrigeration Department prepares students for many additional opportunities.



# OPPORTUNITIES in *ELECTRICITY*

*For trained  
men and young men!*

## City - Town - Country



**Y**OU and I are living in an Electrical Age. Thousands of uses for this great force have been developed . . . thousands of machines and devices to improve and speed up manufacturing processes. Yet, scientists tell us that we have only scratched the surface. New applications are being developed constantly. Today, industry and our very civilization, depends upon Electricity.

### Electricity Everywhere

**Y**ES, Electricity is used everywhere . . . in big cities, in small towns and on farms. Yet many fellows think Electrical jobs exist only in Electrical concerns. This is far from true. Thousands of men are employed in concerns that do not specialize in Electrical products. Power companies, telephone, and telegraph companies, and electrical manufacturers account for only a small part of the thousands of jobs for trained Electrical men.

On this page I want to bring out some of the many fields of opportunity open to trained Electrical men.

### Automobile - Aircraft

**T**HE automobile and aircraft industries offer many opportunities to skilled electrical men to service and maintain the vast amount of electrical equipment used in the manufacturing of motor cars and airplanes, also to install, test and adjust ignition systems, lights, and other electrical equipment on the cars and airplanes themselves.

### Manufacturing Plants

**O**NE example of other opportunities is in factories that use electrical power for their hundreds of motors, lights, and other electrical equipment. Trained electrical men are needed to keep this equipment in repair and running every minute of the day. There are thousands of factories in America offering thousands of jobs for trained Electrical men.

### Power Plants

**A**LARGE Power company needs hundreds of trained men to build power plants, transmission lines, substations, etc., and hundreds of trained men to operate and maintain them.

### Steel Mills

**S**TEEL mills employ thousands of electricians as motor inspectors, repairmen and maintenance men on motors, lighting, electric ovens, furnaces, cranes, hoists, signals, communication systems and controls.

### Railroads

**E**VERY large railroad needs many trained electrical workers for installation, repair and maintenance of safety devices, signal systems, automatic train controls, communication circuits, lighting, heating, etc.

### Textile Industry

**T**EXTILE Companies employ thousands of trained electrical workers to service and maintain their lighting systems, motors, controls, and to operate and maintain their power plants.

### Industrial Electronics

**E**LECTRICITY and Electronics are vital factors in modern developments in science. Industrial Electronic devices are performing almost unbelievable feats in manufacturing processes and other applications.

### Rural Electrification

**T**O the fellow who doesn't want to work in the city there are countless opportunities in small towns and communities. During recent years hundreds of thousands of farms were electrified. Rural Electrification has made it possible for industrial plants to move to the small town or rural districts providing splendid opportunities for trained electrical men in rural districts,



as supervisors, power plant operators, or Superintendents of Rural Power Systems.

### Own and Operate Your Own Shop

**Y**OUR training also includes INSTRUCTION ON STARTING AND OPERATING YOUR OWN BUSINESS, business hints, location of store, required instruments and tools, stock requirements, advertising, etc.

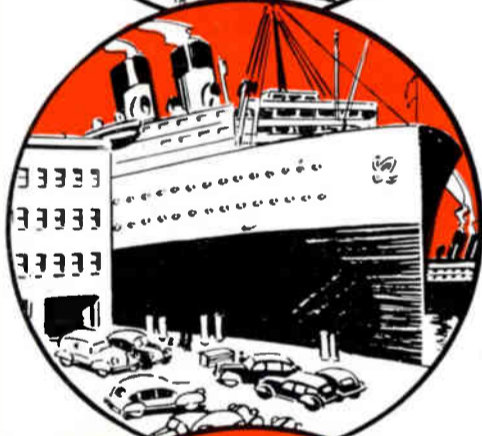
This is one of the various Special Services offered you as a student of Coyne, in addition to your practical Shop training.

Many Coyne graduates are established in their own contracting or sales and service business.

### Many Opportunities

**M**ANY other industries such as Paper Mills, Mines, Chemical Plants, Airports, Hotels, Stores, Office Buildings, Warehouses, Steamships offer opportunities for trained Electrical men.

However, how much a fellow profits from these many opportunities depends upon himself. To the fellow who merely dreams about them and does nothing, they will bring no returns. But to the fellow who prepares himself with a practical and technical training in ELECTRICITY, there should be, in this great field, the interesting and profitable future he has pictured and planned for himself.





# Now let's visit the TELEVISION-RADIO DEPTS.

## The Great New Field of Television Offers Unusual Opportunities

**T**O the fellow who will get training and prepare himself, Television offers the chance of a lifetime. Here is a chance to get in at the very beginning of a great new industry and advance and prosper as Television grows and expands.

Television is the fastest growing industry in America today. Many predict that within the next few years, it will be one of the ten largest industries in the land. This is the chance of a lifetime to get in on the ground floor in this fascinating field that can offer unlimited opportunities for a real future to men who prepare now by training to qualify for these opportunities.

**BUT, TO UNDERSTAND TELEVISION AND QUALIFY FOR THE BETTER JOBS IN THIS FIELD, A FELLOW MUST HAVE A THOROUGH KNOWLEDGE OF RADIO, INCLUDING A.M. AND F.M.** A.M. or Amplitude Modulation is the type of Radio reception we've had for several years and is in general use today. F.M. or Frequency Modulation is the newer, static free type, which is the voice of the Television Receiver.

We have laid out our courses so that students first get a thorough training in Basic Radio. This basic training gives them the fundamentals they need to advance step-by-step on up through the **MORE ADVANCED TRAINING IN A.M. AND F.M. RADIO SERVICE AND TELEVISION INSTALLATION AND SERVICE.**

**T**HE TELEVISION-RADIO training here at Coyne is divided into the following departments:

**Basic Radio;  
Radio Construction and Repair;  
Radio Service;  
Television and F.M. Circuits;  
Television Service.**

Below and on the next 14 pages I give you a brief description of the training covered in each department and show you many pictures taken in the Television and Radio departments of our training shops.

**NOW, AS YOU GO THROUGH THE FOLLOWING PAGES, AND SEE HOW OUR STUDENTS ARE GETTING THEIR TRAINING, I'm sure you can't help but agree with me when I say—the way to get a practical training in Television-Radio is the way it is taught at Coyne.**

**NOTE:** Each illustration of the shops is from an actual photograph taken at Coyne.

### COMBINATION ELECTRICAL AND TELEVISION-RADIO TRAINING AVAILABLE

Many Students are interested in both the fields of Electricity and Television-Radio. For these students we have arranged combination courses which are explained on the material enclosed with this catalog.

## *first*... You Start Your Training In the Basic Radio Dept.

### TO UNDERSTAND TELEVISION YOU MUST HAVE A THOROUGH TRAINING IN RADIO

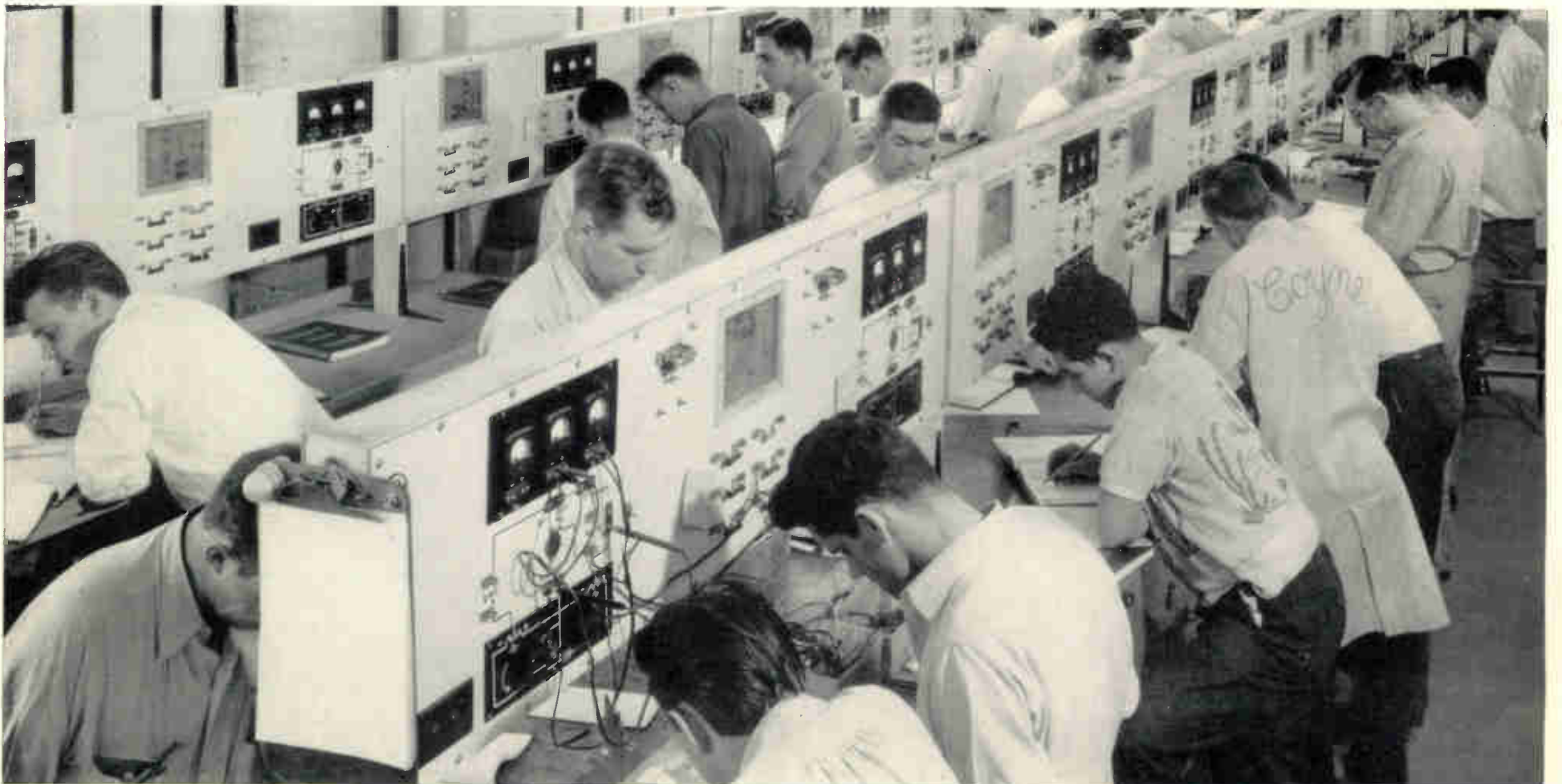
**A**S TELEVISION is an advanced development of RADIO, to understand TELEVISION and to be able to do Television work, a student must first have a thorough understanding of A.M. AND F.M. RADIO. TELEVISION AND RADIO GO TOGETHER. TELEVISION is the "eyes" and RADIO the "ears." Television transmitters send out both LIGHT modulated and SOUND modulated high frequency waves.

Television receivers pick up these waves and convert them to

SIGHT and SOUND signals. The SIGHT signals are amplified into the picture you see and the SOUND signals are amplified into the voice or sounds you hear.

The Television Receiver is equipped with a frequency modulated Radio to pick up the sound and voice. So to thoroughly understand Television, it is also necessary to understand frequency modulation Radio, an adaption of A.M. or Amplitude Modulation. So you start getting this training and knowledge in our Basic Radio Department. The important basic radio instruction you get in this department gives you the foundation necessary for your advanced training in A.M. and F.M. Radio and in Television.

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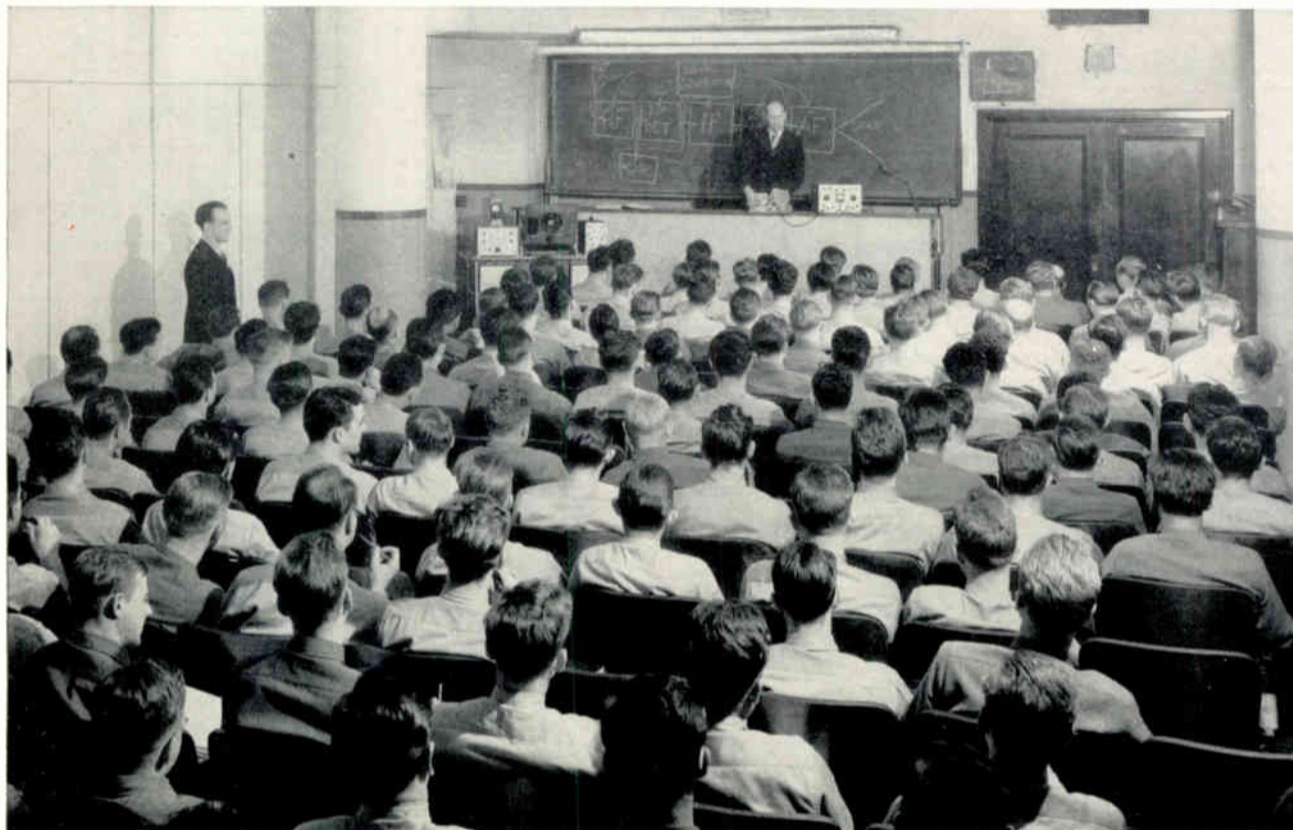


This is a general view of the Basic Radio Department, showing students making various tests to determine the characteristics of Vacuum Tubes and other experiments to

familiarize themselves with Radio fundamentals. A good knowledge of fundamentals is needed to help students on more advanced Radio, F.M. and Television Training.



# On the Preceding Page and on Pages 25 and 26 You See Students At Work in the **BASIC RADIO DEPT.**



INTERESTING LECTURES WITH BLACKBOARD DRAWINGS AND EQUIPMENT DEMONSTRATIONS INTRODUCE YOU TO THE FASCINATING MYSTERIES OF TELEVISION AND RADIO. While Coyne training is practical shop training, it does not mean that you do not get necessary theory. There are laws and principles of Television and Radio that you must know and this is given by Lectures, Blackboard Drawings, Equipment Demonstrations, Slide Films, and Sound Movies. The Photo above was taken in one of our several Lecture Rooms.

The students in the picture below are receiving instruction and getting practice on soldering, which is an important foundation for Television and Radio Service and Repair jobs which they will do later.



## Students Work on Actual Equipment

**T**he TELEVISION-RADIO TRAINING here at COYNE is designed to give you a practical knowledge of the things that are important to your future success in the great field of Television-Radio which includes A.M. Radio, Sound, F.M. Radio, Television, Public Address, and other Electronic Equipment.

First, we give you an understanding of the principles of Electricity, Magnetism, Conductors, Insulators, Units, Symbols, Electrical Laws, etc., and how they apply to Radio and Television.

Then you progress to such jobs as circuit wiring and tracing for various types of circuits; series, parallel, combination, relay, and soldering practice. Working on the actual equipment gives you the experience and knowledge of Radio and helps you when you get into the more advanced training.

Instructors explain the construction, operating principles, circuit diagrams and test procedure of the various devices during class discussions in which frequent use is made of demonstrating equipment and visual training aid films.

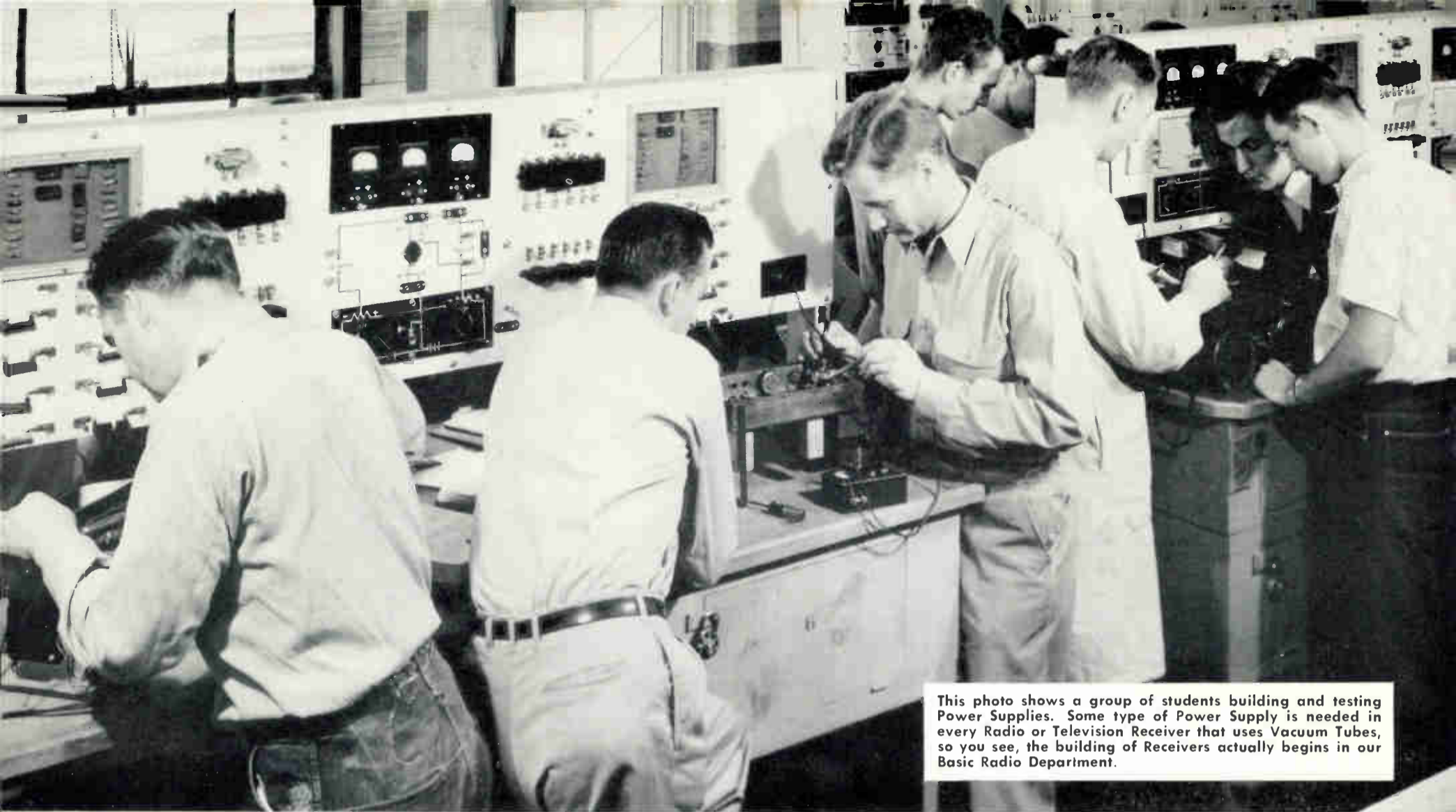
Even the training here in the first department is practical. Technical Training and theory are made clear to the student in practical and understandable lectures and THE STUDENT THEN PROVES THE LAWS AND PRINCIPLES HE HAS LEARNED BY PRACTICAL WORK ON THE EQUIPMENT AND APPARATUS ITSELF, JUST AS PICTURED ON PAGES 24, 25 and 26.

**A** COMPLETE kit of parts is issued to you and after explanation of important principles by your Instructor, you wire up and put into operation an A.C.-D.C. power supply of the type used in table model radios, A.C. power supply used in Console Radios, Audio Oscillators, Audio Amplifiers and other Electronic equipment. Some type of power supply is needed in every Television and Radio Receiver, so even here you get instruction that will prove valuable to you later on when you reach the Television Departments.

You also learn the fundamental principles of Reception and Transmission. The Instructor demonstrates various parts that go to make up a Receiver such as the different types of Tubes, Resistors, Condensers, Coils, Resonant Circuits, Transformers, Speakers, Rheostats, Volume Controls, and explains their construction, action and, application. In this way you are made thoroughly familiar with the various RADIO parts and their functions so YOU WILL BE READY TO START BUILDING RADIO EQUIPMENT.

*(please continue on following page)*





This photo shows a group of students building and testing Power Supplies. Some type of Power Supply is needed in every Radio or Television Receiver that uses Vacuum Tubes, so you see, the building of Receivers actually begins in our Basic Radio Department.

### Now You're Ready To Work With Test Instruments

**Y**OU are also issued a Multi-meter of a type used in Service Shops and you get instruction on the care, application, circuit and technique of reading this meter.

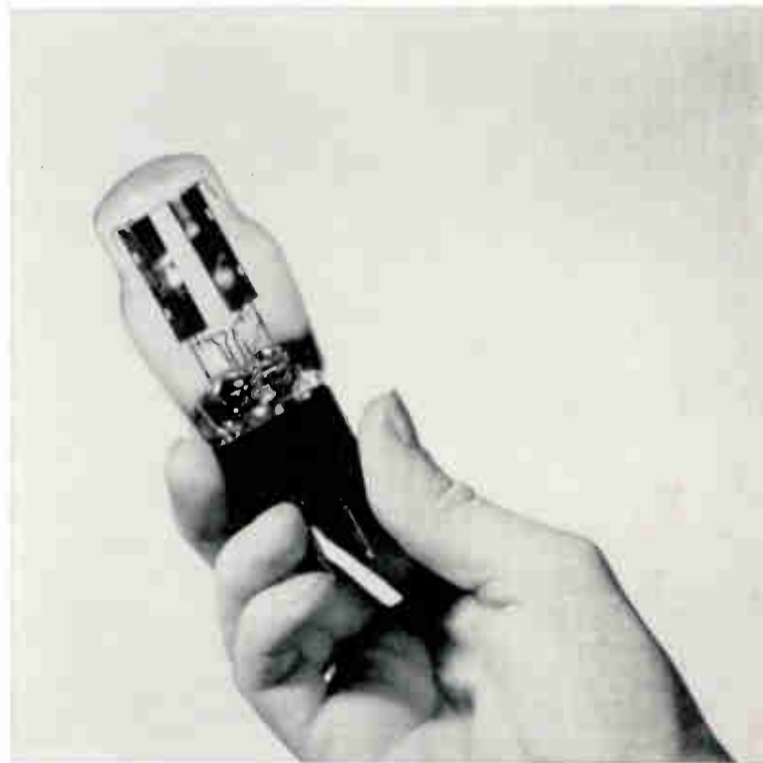
Resistance test and voltage analysis are made by the student on all units that he builds. The student breaks down a tube and identifies all the elements. He also plots characteristic curves from tests made on tubes in the shop.

**ALL OF THE NECESSARY PARTS AND TOOLS THAT YOU NEED IN DOING SHOP JOBS ARE LOANED BY THE SCHOOL AT NO EXTRA CHARGE.**

The shop jobs are laid out and explained along with easy-to-read drawings and diagrams so you learn to **READ PRINTS OR DIAGRAMS** and learn how to wire systems from different plans and how to make various tests on the equipment.

The pictures on pages 24, 25 and 26 show you COYNE students working in our **BASIC RADIO DEPARTMENT**. These pictures taken in our Radio and Television Departments illustrate how each COYNE STUDENT gets real **PRACTICAL-TECHNICAL TRAINING**. A step-by-step procedure is employed throughout the entire training. Each job is checked by an Instructor before you go to the next job. In this way you become familiar with each step as you go along so that almost before you know it you are doing work that even ten days before may have been a mystery to you.

When you complete your training in our **BASIC RADIO DEPARTMENT**, you are then ready to apply this knowledge in laying out, building, connecting up, and testing various types of equipment in the **NEXT DEPARTMENT** which is our **RADIO CONSTRUCTION AND REPAIR DEPARTMENT**. Here, too, the valuable Step-By-Step instruction prepares you for the more advanced work in the Television Departments later on.



The modern Vacuum Tube has been rightly called "THE MARVEL OF OUR AGE." Great industries have been built around the developments of the Vacuum Tube. The greatest and best known of these industries include the opportunity fields of Radio and Television.



Here you see a corner of our Basic Radio Department where a group of students are checking the characteristics of Vacuum Tubes with the use of Meters and specially built Power Supplies.

**With this sound foundation,  
you are now ready to  
step into one of the  
most fascinating Parts  
of our Training.. RADIO  
CONSTRUCTION  
and REPAIR**



# Now. You're Ready for Shop Training in **RADIO CONSTRUCTION** and Repair



This is a general view of our Radio Construction and Repair Department showing a group of Coyne students learning to construct and wire Receivers and do Trouble Shooting and Testing. Plenty of Sets, Parts, Instruments and Tools are provided to make the training intensely practical.

## Experienced, Helpful Instructors Show You Just What to Do

**O**NE of the outstanding features of COYNE SHOP TRAINING is the individual assistance given to each student by our instructors. You will find that STUDENTS AND INSTRUCTORS ARE REAL FRIENDS HERE AT COYNE and they work together, throughout the course of training. COYNE instructors are selected, not only for their superior knowledge and experience, but also, because in addition, they possess the qualities of patience, kindness and sympathetic consideration for all students.

Because of this personal contact and friendly feeling, the instructor, within a short time, becomes personally acquainted with each stu-

dent and is therefore better able to instruct them so they can get the most from their training in the shortest possible time.

Now before you entered the RADIO CONSTRUCTION AND REPAIR DEPARTMENT, you were given the fundamental training and instruction needed to understand the purpose and application of various radio parts in preparation for the actual building of Radio sets which you do in this Department.

HERE YOU BUILD UP A COMPLETE T.R.F. RADIO RECEIVER as well as a COMPLETE SUPERHETERODYNE RECEIVER.

The basic rules and methods that you learned and applied in the preceding department were stepping stones to these interesting and highly important jobs. This work, in turn, enables you to work out other more complicated jobs. It also helps you to understand the purpose of various tests that you will perform later on when you get to the more advanced training in the Television Departments.

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

*(please continue on page 29)*



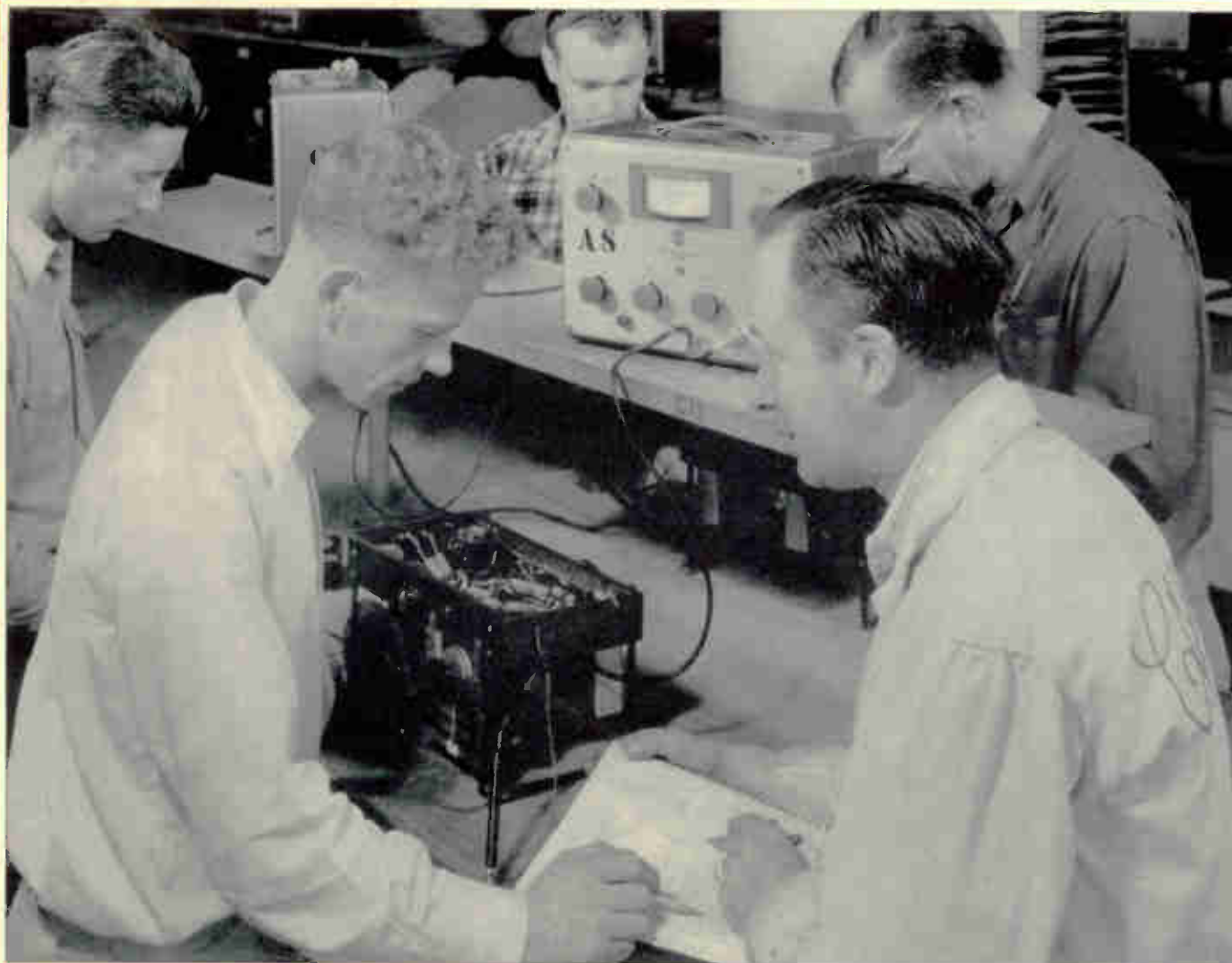
# More Views in our CONSTRUCTION DEPT.



In this department students actually build a T. R. F. Receiver and a Superheterodyne Receiver. They get a chassis and all the parts from the stock room and step-by-step they assemble the receiver. In the above photo these students have completed their receiver and are doing aligning and making tests with various testing instruments. The testing methods learned here are later applied to other types of Receivers.



Here you see students beginning to build a T.R.F. Receiver. They continue on adding each part step-by-step until the receiver is completed, using their diagram as they go along. This type of Practical-Technical training gives Coyne students the knowledge and experience they need for good jobs in the Television-Radio field.



In this photo you see an instructor explaining procedures in aligning Radio Receivers. The students in the background are aligning and testing a Radio Receiver using various types of up-to-date testing equipment. This practical training gives the students the experience they will need out in the field.

## PRAISES COYNE TRAINING HIGHLY

"I have the great pleasure of stating I graduated from your school in the spring of 1944, and since that time I have been very successful. I have my own radio-television repair, and engineering laboratory, one of the finest in the state of Iowa.

"In conclusion I will say for the benefit and enlightenment of future students: 'Coyne is the best if not the greatest Radio-Television school in the United States'."

Sincerely yours,  
Glenn W. Radcliffe, Iowa

## HAS 16 MEN WORKING UNDER HIM

"I have been intending to write to you and tell you how much I enjoyed your 50th Anniversary Issue of Coyne Graduate News.

I am now employed at Brookley Air Force Base as Senior mechanic in the Radio Shop. I have from twelve to sixteen men under my supervision and it is our duty to service and repair all Air Borne Radio equipment for this base.

We have a number of Coyne publications in our Technical Library here and I have found them very useful, especially your book on Electrical and Radio Measuring Instruments.

Let me congratulate you on the many improvements you have made at Coyne. I would especially like to see your television studio. I hope to visit Coyne again some day and see all the new things.

I am enclosing a snapshot of myself for your files."

Sincerely yours,  
Kermit Bailey, Ala.

## HAS PROFITABLE BUSINESS

"I finished High School in June of 1946 and started to Coyne in August of 1946. Came home in December and by January 1st, 1947 I was really getting into Radio. 1947, 1948 and 1949 have proven to be good years for me.

"I have a 1948 Ford truck that my Radio and Sound business paid for and I operate from a private home in a very small town.

"To all the Coyne Staff 'Best Wishes and Congratulations.' May you serve Radio-Television and Electronics another 50 years with successful operation.

"Remaining always a student,"  
Yours truly,  
James R. Bennett, S. Car.



# RADIO CONSTRUCTION and REPAIR

(Continued)

**I**N THE CONSTRUCTION AND REPAIR DEPARTMENT THE STUDENT CONTINUES TO WORK WITH VACUUM TUBES, by adding to the metal chassis previously used in Basic Radio, other vacuum tube circuits, such as A.F., R.F. and I.F. amplifiers, demodulators, R.F. oscillator and mixer tubes. He wires up one circuit at a time and makes resistance, voltage analysis and operation tests which the instructor must check before the student can wire the next circuit.

USING THE PROCEDURE GIVEN ABOVE, THE STUDENT BUILDS A COMPLETE T.R.F. RECEIVER, then tests and operates it. He experiments with the receiver by substituting incorrect values of resistors and capacitors for the correct ones and then by testing and operating the students learn the importance of having correct parts in the receiver.

A COMPLETE SUPERHETERODYNE RECEIVER IS WIRED by the student using the "one stage at a time—testing" procedure. Both receivers are wired on a metal chassis and special emphasis is placed on the proper location and layout of all parts and circuit wires. Its construction is similar to and uses the same circuit as used in a large number of commercial radios. The student gains practical experience by aligning and trouble shooting these receivers.

Troubles are placed in the Superhet receiver and trouble shooting experience is obtained when the student makes exhaustive resistance tests and voltage tests. Signal generators and tube testers similar to those used in Radio and Television Service Shops are used extensively by the student. Special emphasis is placed on the point to point method of trouble shooting with a volt-ohm milli-ammeter.

The photo on page 27 shows you a general view of the Radio Construction and Repair Department and on pages 28 and 29 you see Coyne students getting actual shop practice and training by working out the various jobs right on the equipment.



This photo shows Coyne students making tests on Radio Receivers. Practical training like this is designed to fit you for the better paying jobs in Radio and Television. Experienced instructors are at hand to help students with their Shop Work and answer their questions.

## There Is No Substitute for Practical Shop Training

**C**OYNE has always believed that a fellow can learn a thing much quicker and better if he can actually SEE, HANDLE, AND OPERATE THE EQUIPMENT HIMSELF.

We know that a fellow wants the training for one reason—to get a job—a job that has a future.

We know too, that a fellow wants to prepare for that job in the shortest possible time.

That is why we have developed a streamlined, highly practical course of training and designed our training methods around the idea that a fellow who wants a training doesn't want a lot of frills, but wants a course of training that can fit him as quickly as possible for his place in the industry for which he trains.

Here at COYNE our purpose is to give you such a training and give it to you in such a way that you can grasp and remember.

They say a picture is worth a thousand words. If this is true, then doing the actual job is worth even more.

That is why we combine necessary theory given by practical lectures, film slides, blackboard diagrams, and equipment

demonstrations with practical training right on the apparatus and equipment.

I am sure you must admit this method of training—BY EYE, EAR, AND HAND—IS THE MODERN AND MOST EFFICIENT WAY TO GET YOUR TRAINING.

## Now You Are Ready for Radio Servicing

**T**HE training you get and the practical jobs you do in actually building your own Receiving Sets, and the Testing and Trouble Shooting you do on the sets you have built gives you the experience necessary and helps you prepare for the important work of servicing in Television and Radio which you will get in the advanced departments. By now, you have already learned to shoot trouble by the "Point to Point" system. You have had actual practice in testing Tubes, Capacitors, Transformers, Resistors, Power Supply Units, Filters and other parts of Receiving Sets with modern Test Instruments. All that you have learned so far is designed to prepare you for the interesting and valuable training you will get later in the Radio Service Department, Television F.M. Circuits Department and the Television Service Department.

A close-up view of a work bench showing a Coyne student making final tests on a Radio Receiver.





# Then You Move on to the . . .

# **RADIO SERVICING DEPT.**

You Do Real Trouble Shooting with Real Testing Equipment, Just Like You'll Use Later On the Job

**I**N the Radio Service Department you begin to get the kind of training similar to the work you will do out in the field. This type of training also prepares you for the interesting work you will do in the Television Departments which follow. The training you get in the Radio Service Department combined with training in the Television and F.M. Circuits Department and the Television Service Department qualifies you for your start in the opportunity field of Television-Radio and leads to the kind of jobs that pay good money and offer a real future in the years ahead.

### You Get Actual Servicing Practice to Give You Experience

**Y**OU start your training in this department by getting practice in handling Modern Analyzers, Vacuum Tube Voltmeters, Output Meters, Signal Generators, Signal Tracers, Oscilloscopes and other up-to-date Test Equipment used in testing and trouble shooting on A.M. and F.M. Radio and Television Receiving Sets.

You'll see some of this equipment in the picture at the bottom of page 32 which shows students working with these instruments. You make complete ANALYSIS CHARTS on many types of Receiving Sets. You make VOLTAGE AND RESISTANCE ANALYSIS TESTS and familiarize yourself with SIGNAL TRACING and other modern SHORT CUT METHODS OF FAULT LOCATION IN RADIO AND TELEVISION EQUIPMENT.

### You Learn Trouble Shooting Step-by-Step

**B**EFORE entering the Radio Service Department the student has been taught how to trouble shoot with the "point to point" system using a volt-ohm milli-ammeter. In this department he learns to service various types of commercial receivers using the latest up-to-date testing instruments.

You devote your shop time to Trouble Shooting and Servicing factory made receivers with modern test instruments identical to those that you will use or work on if you are operating your own shop, doing Service work for an em-

ployer, or work in a factory doing phasing, line testing, or repairing factory rejects.

A stock of various types of factory built receivers is maintained in our stockroom. Instructors place practical troubles in these receivers and you get actual experiences in the technique of Servicing by servicing these sets.

### Work on Many Home Type Radio Receivers

**H**ERE in our Radio Service Department you will have an opportunity to work on many popular types of A.C. Superheterodyne sets and Tuned Radio Frequency receivers. You get actual practice in testing Tubes, Condensers, Transformers, Resistors, Speakers, Power Supply Units, Filters and all parts of RECEIVING SETS with Modern Test Instruments. This is the type of practical shop-training you get in the shops of COYNE that prepares you for Building, Testing, Servicing, Aligning, Adjusting and Repairing Radio Receivers and gives you the fundamentals and knowledge for your advanced training in the Television Service Department.

*(please continue on next page)*



This is a general view of our Radio Servicing Department showing Coyne students testing, aligning and repairing various types of Home Radios. Each student works on various different types of Radio.



# More Views in our **RADIO SERVICING DEPT.**



These Coyne students are testing Auto Radios. This branch of Radio service offers excellent opportunities for profit to the trained service man.



In this picture you see a group of Coyne students getting instruction on Airplane Radios. Almost all of the larger planes today are equipped with Radios.

Showing **COYNE** Students getting actual training on real apparatus and equipment

## Automobile Radio Installation and Service

**Y**OU get instruction on popular types of **AUTOMOBILE RADIOS** including instruction on **INSTALLATION, INTERFERENCE ELIMINATION, NOISE SUPPRESSION, SERVICING, TESTING AND REPAIRING,** construction, power supplies, vibrators; operation, maintenance and installation of auto antennae and elimination of ignition interference.

## Police, Marine and Aircraft Radio

**P**OLICE, MARINE AND AIRCRAFT RADIO installing, servicing, testing and repairing is also covered.

Your training includes instruction on **POLICE, AIRPLANE AND MARINE TYPE RADIOS,** transmitter principles, short wave features, airplane microphones and modulators; receivers, power supplies, dynamotors, trouble shooting and servicing procedure.

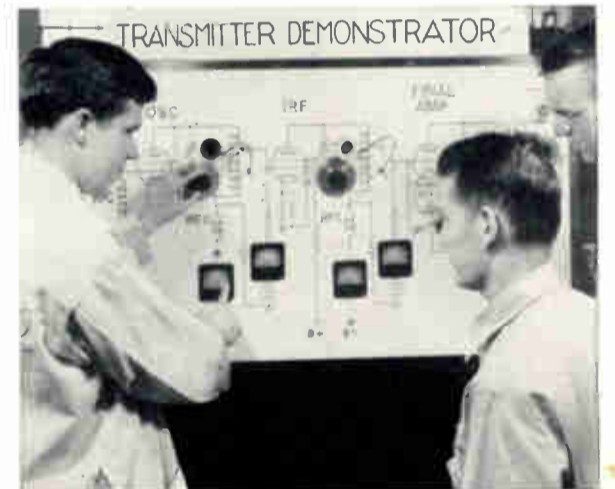
In this Department you also get instruction on the construction and purposes of the different component stages of Mobile Transmitters, the combination of stages needed for different applications, power output, frequency and type of modulation. Information is also given on how to make checks to see that a Transmitter is operating correctly as well as information on general operating maintenance of Transmitters.

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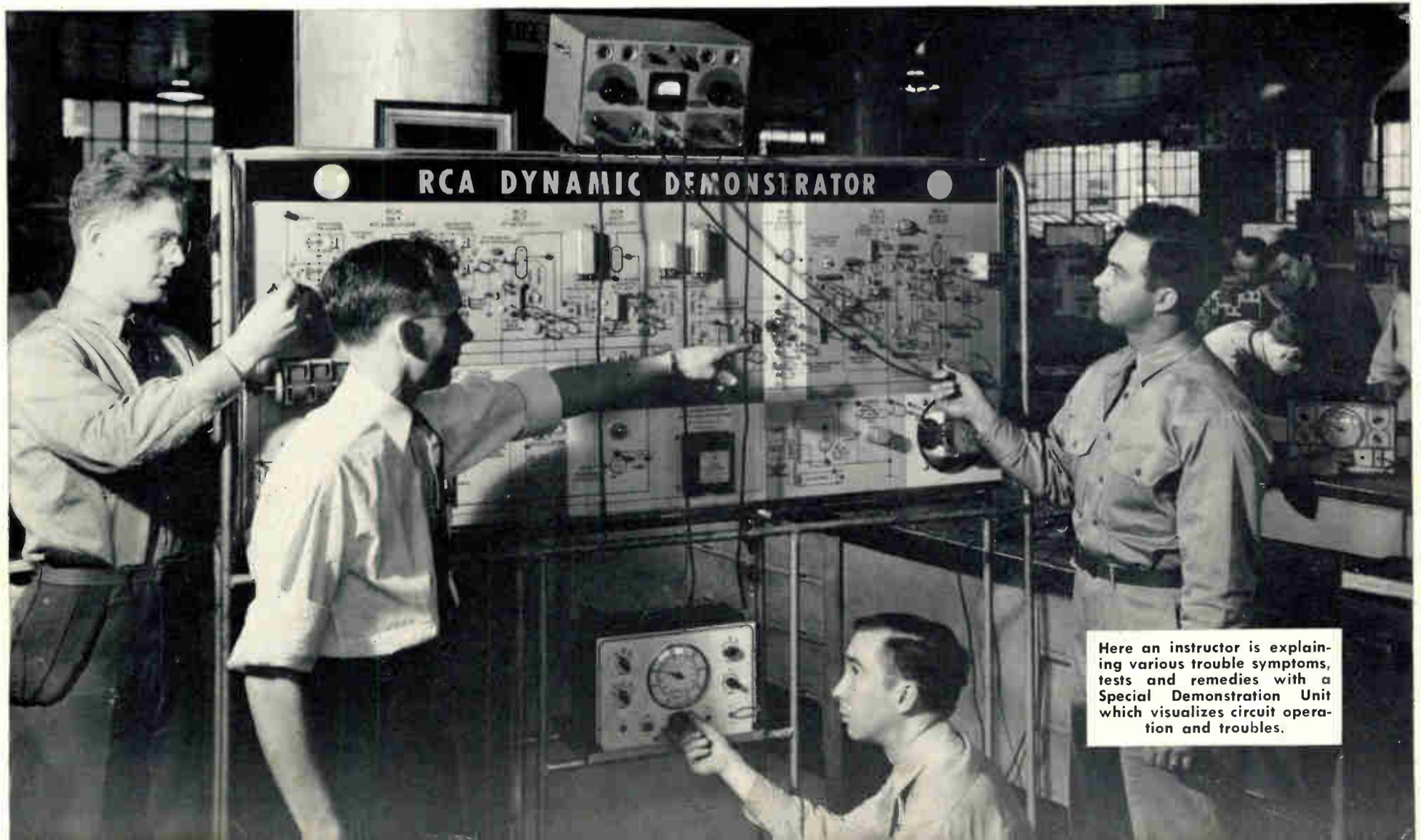
## You Work with Modern Test Instruments

**O**NE of the most important features of Coyne practical training is the instruction given students on the operation and use of modern test instruments in testing, checking and trouble shooting on Television and Radio Receivers.

You learn how to operate and use Cathode Ray Oscilloscopes, Rider's Chanalysts, Vacuum Tube Voltmeters, Signal Generators, Tube Testers, Universal Test Meter, Philco Dynamic Signal Tracer and other up-to-date signal tracing instruments.

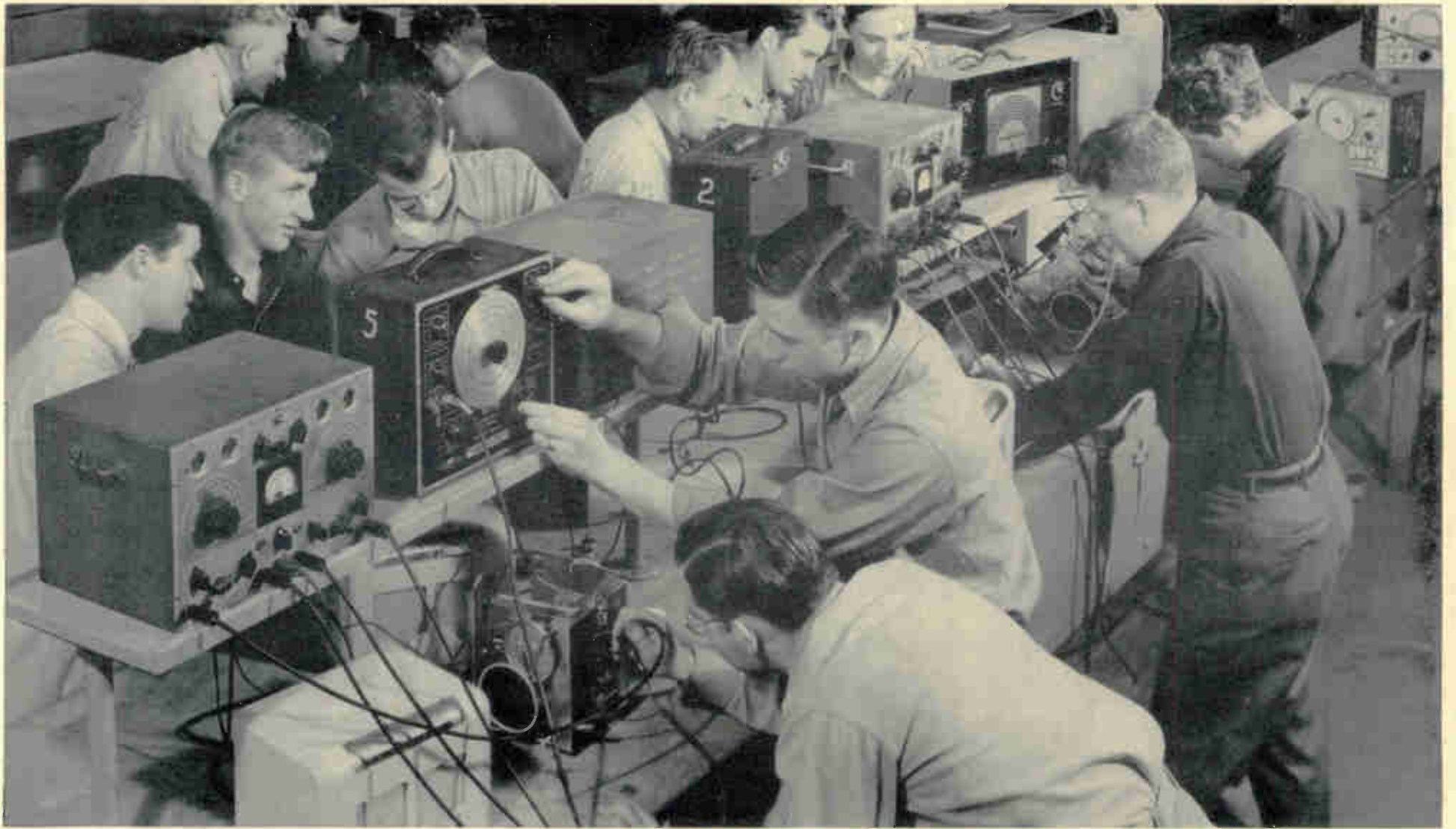


The picture above shows a Transmitter Demonstration Unit that the instructor uses to show the circuits and explain the operation of two way mobile transmitter units.



Here an instructor is explaining various trouble symptoms, tests and remedies with a Special Demonstration Unit which visualizes circuit operation and troubles.





(continued from page 31)

### Own and Operate Your Own Shop

**Y**OUR training also includes INSTRUCTIONS ON OPERATING A TELEVISION-RADIO SERVICING BUSINESS, business hints, location of store, required instruments and tools and how to select, stock requirements, advertising and business hints.

As one of the various Special Services offered you as a student of Coyne, we give you, in addition to your practical Shop training, instruction in modern business methods and salesmanship. This part of our training will be of great help to you.

We cover such subjects as how to keep records, selecting a location, how to attract customers, rent and other overhead expense, how much you should charge for different types of jobs, and many other important matters.

### You Are Now Ready for the Television and FM Circuit Department

**W**HEN you have satisfactorily completed this work already described, you will have had training in BUILDING, TESTING, REPAIRING, ALIGNING, ADJUSTING AND SERVICING RADIO RECEIVERS AND HAVE ALSO LAID THE GROUND WORK for the more advanced WORK TO FOLLOW ON TELEVISION equipment and apparatus that is necessary for ALL-AROUND TELEVISION AND RADIO TRAINING. THIS PART OF OUR COURSE IS EXPLAINED ON PAGES 33 TO 38 inclusive and covers the important Television and F.M. training you will get in the next two departments.

This picture shows you a group of Coyne students getting training in the latest servicing and trouble shooting methods at one of the specially constructed service benches in our Radio Service Department. Notice the many different types of Test Instruments which are available for students to work with. This is the type of practical shop training that gives the student confidence in his ability to do this work out in the field.



These students are getting practice in the use of Modern Test Instruments. Instructors place trouble in Receivers that are similar to the type of trouble ordinarily found by the Service Man in the field. These Receivers are then serviced by the students using Modern Test Instruments to locate the defect.



# *You're Now Ready for the Interesting and Vital Training*

*in Our*

# **TELEVISION and F.M. CIRCUIT DEPARTMENT**

**N**OW you are ready to enter one of the most interesting Departments of the entire course, equipped with some of the most fascinating Electronic Equipment you have ever seen. Here you get instruction on many of the newest applications of Electronics including F.M. (Frequency Modulation) and TELEVISION. NEW DEVELOPMENTS AND IMPROVEMENTS ARE CONSTANTLY INCREASING THE APPLICATIONS OF ELECTRONICS, PROVIDING NEW AND ADDITIONAL OPPORTUNITIES FOR TRAINED MEN.

## **Big Opportunities Ahead For Trained Television-Radio Men**

**T**HIS big growing boom in Television offers thousands and thousands of new opportunities for men and young men who will put forth the effort necessary to train themselves to qualify for these opportunities. There aren't nearly enough qualified men to go around.

Because of the immediate acceptance by the public and the rapid growth of the Television industry, manufacturers, distributors, dealers and service organizations were all caught short and have been scurrying around ever since it was introduced, in an effort to find

enough trained Television-Radio men to carry on operations.

## **Television Is Booming**

**A**FTER only a few years of development the Television industry has assumed boom proportions. Television Manufacturers are producing Television sets as fast as it is possible for them to do so, and several millions of Television sets are already in daily use. Research organizations predict that over 25 million sets will be in use within a few years.

Television-Radio industry officials predict that thousands of additional Television Technicians will be needed.

## **Your Big Chance To Get In On The Ground Floor**

**T**HIS is Radio of the 1920's all over again, only on a much larger and more amazing scale.

The days when a radio set could be repaired merely by changing a tube or a condenser are past and gone. Today's Television and Radio receivers are precision-built instruments that call for expert installation and servicing. With

the wide variety of receivers on the market, including the many Radio-Phonograph combinations, Automatic Record changers, etc., a fellow needs training in Radio combined with Television—that's the kind of training you get at Coyne.

## **Television and Radio Go Together**

**T**ELEVISION is broadcast along with sound and Television sets on the market are combined with an F.M. Receiving Set or both an F.M. set and a regular Radio or A.M. Receiving set and sometimes also with Record changing equipment.

## **All-Around Television-Radio Training Needed**

**T**HAT'S why you need an ALL-AROUND TRAINING IN BOTH TELEVISION AND RADIO to cash in on these opportunities that are opening up for trained men. TO HAVE TRAINING IN RADIO ALONE IS NOT ENOUGH, AND TO UNDERSTAND TELEVISION YOU MUST KNOW THE FUNDAMENTALS OF RADIO.

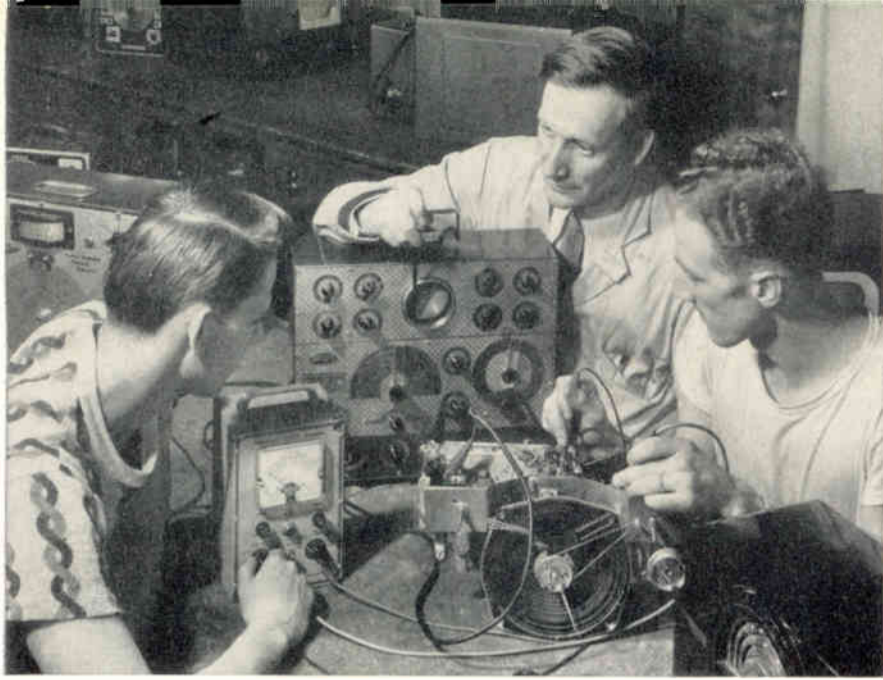
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This is a general view of our Television and F.M. Circuit Department. Here you see students getting instructions on the principles of Television construction. Notice the students working right on the Television Receiving sets.

This type of training on the latest type Television Receivers gives the student confidence in his ability to step out into the Television-Radio field after he graduates.





Here you see students getting personal instruction in testing and trouble shooting on a modern Frequency Modulation Radio Receiver. This type of all around training prepares students for the better type of opportunities in the expanding Television-Radio F.M. field.



This photo shows you students using modern testing instruments to locate faults in various types of F.M. Tuners and Combination FM-AM Receivers. F.M. Circuits are used in all Television Receivers.

*(continued from page 33)*

### F.M. Is The Voice Of Television

**T**ELEVISION Receivers are usually combined with an F.M. Receiving set to bring in the voice. F.M. Receivers are also manufactured separately and production is already numbered in the millions. So you can see why the all-around Television-Radio man must have training in F.M.

Your training in FREQUENCY MODULATION apparatus and equipment includes comparison of frequency and amplitude modulation, methods of frequency modulation, advantages of F-M, F-M receiver, circuit analysis limiter and discriminator action, F-M receiver alignment and servicing procedure, translators and F-M adaptors, F-M antenna systems.

Notice the students aligning F-M sets in the photo at the top of this page, and in the picture at the bottom of page 35 you see students testing and trouble shooting on Frequency Modulation sets. This is the kind of practical training that gives men confidence that they can qualify for these opportunities after they graduate.

### Television, The "Eyes" Of Radio

**T**ELEVISION, the amazing development that can bring to your vision spot happenings that occur hundreds of miles away. Television, which "broke" with a boom that is expected to progress into a multi-billion dollar industry offers thousands of opportunities to men who will qualify by training for these great opportunities.

As a business, Television right now is the fastest growing industry in America. Television is already reaching areas that include more than half of our nation's population. This already great industry will continue to grow and progress for many, many years, offering great opportunities to those who have the foresight to plan and prepare for them.

This is the opportunity of a lifetime to get in at the start of a brand new industry and advance with its growth to a real successful future in the years ahead. The practical-technical training in TELEVISION-RADIO at COYNE is designed to prepare ambitious men and young men for this great opportunity.

### You Cover Important F.M. and Television Theory

**I**N the Television and F.M. Circuit Department you start with the most interesting training of the entire course.

*(continued on next page)*



This is a view showing Coyne students getting an explanation of the construction and operation of a Television Receiving Set. The Tube being held by the instructor is the Picture Tube of the Television Receiving Set.



# TELEVISION *and* F.M. CIRCUIT DEPT.

(continued)

(continued from page 34)

**I**N this department the training you get on F.M. equipment gives you an understanding of the sound section of the television receiver, as well as the Cathode Ray tube as used in test instruments such as the Oscilloscope and the television receiver itself. Some of the subjects covered in this department are F.M. circuits in the sound channel of the television receiver, including wide bank i-f amplifiers, limiters, detectors, discriminators and audio amplifiers. Alignment of f.m. sound channel. The function and operation of Cathode Ray tubes. Oscilloscope and television receiver cathode ray tube controls. Deflection theory. Checking frequencies, audio amplifiers. The operation and use of various Television testing equipment.

## You Apply Your Theory on Actual F.M. and Television Equipment

**S**OME of the practical work covered in this department includes: alignment of the f.m. ratio detector in the television receiver. Alignment of f.m. discriminator and amplitude limiter. Localizing and correcting trouble in audio i-f amplifier of the television receiver. Alignment of audio section. The Oscilloscope controls, function and adjustment. Measuring frequencies, varying volt-

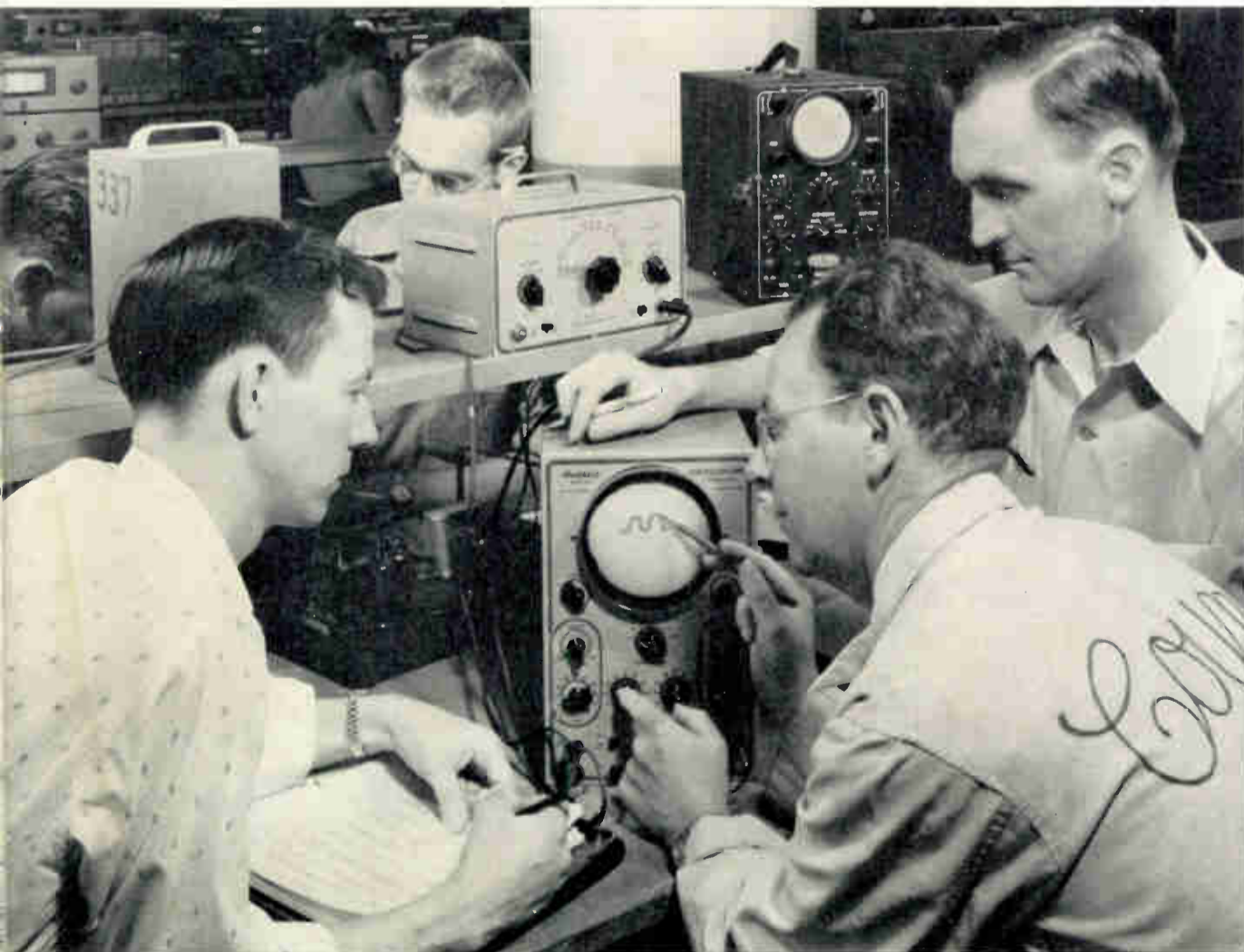
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Here you see students checking the wiring and tracing the circuits of Television Receivers. This actual practice and practical experience qualifies them to quickly locate the troubles in Television Receivers they may find in service work out in the field.



Here you see an instructor showing students the operation and giving instructions on the use of an oscilloscope. These units are used extensively in servicing Television and F.M. Receivers. Here in the Coyne Shops students learn the use of many of the latest, most up-to-date Television testing units.



In the photo above you see an instructor giving students an explanation of the characteristics of a Cathode Ray Tube. This is more commonly called the "Picture Tube" of the Television Receiver.

ages. Alignment and checking of tuned circuits.

Your training in this department includes the adaption of a-m and f-m receiver servicing to the f-m sound section of the television receiver, study of the construction and application of the cathode ray tube. This type of training is an invaluable aid in Television servicing which you get in the next department.

## Now You're Ready for Television Servicing

**A**FTER you have completed the Television and F.M. Circuit department you will have laid the foundation for your interesting and profitable training in the Television Service Department. This is one of the most important departments of your entire course. The training you get in this interesting department is pictured and described on pages 36, 37 and 38.



# These Next 3 Pages Show You Views of Our **TELEVISION SERVICE DEPT.**

## Television Service Offers Unlimited Opportunities

**Y**OU'RE now ready to enter the important and very interesting Television Service Department where your training will pay you real dividends in the growth and future progress of this great new industry.

To get an idea of some of the fabulous possibilities that lie ahead in Television, let's go

behind the scenes. A billion dollar a year industry today, television promises to be one of the ten major United States industries in five years.

The F.C.C. has a new allocation program calling for over 2100 new television stations. They say, "A Television Station for every Community."

With several million television sets in operation at the present time, this is expected to be more than doubled within a year.

Manufacturers are making sets as fast as

it's possible to do so and distributors and dealers are crying for more and more sets and more and more trained television men to install and service them.

Don't let anything stop you from getting the training you need to qualify for a good job and a future of great possibilities in this amazing field of opportunities. **TRAIN NOW FOR YOUR PLACE IN TELEVISION-RADIO—GET IN ON THE GROUND FLOOR OF A GREAT NEW FIELD.**

## Television Receiver a Precision Instrument

**U**NLIKE our first Radio receivers, Television sets are much more complex. Our first Radio sets contained only a fraction of the diversified parts that go into the making of a modern television receiver.

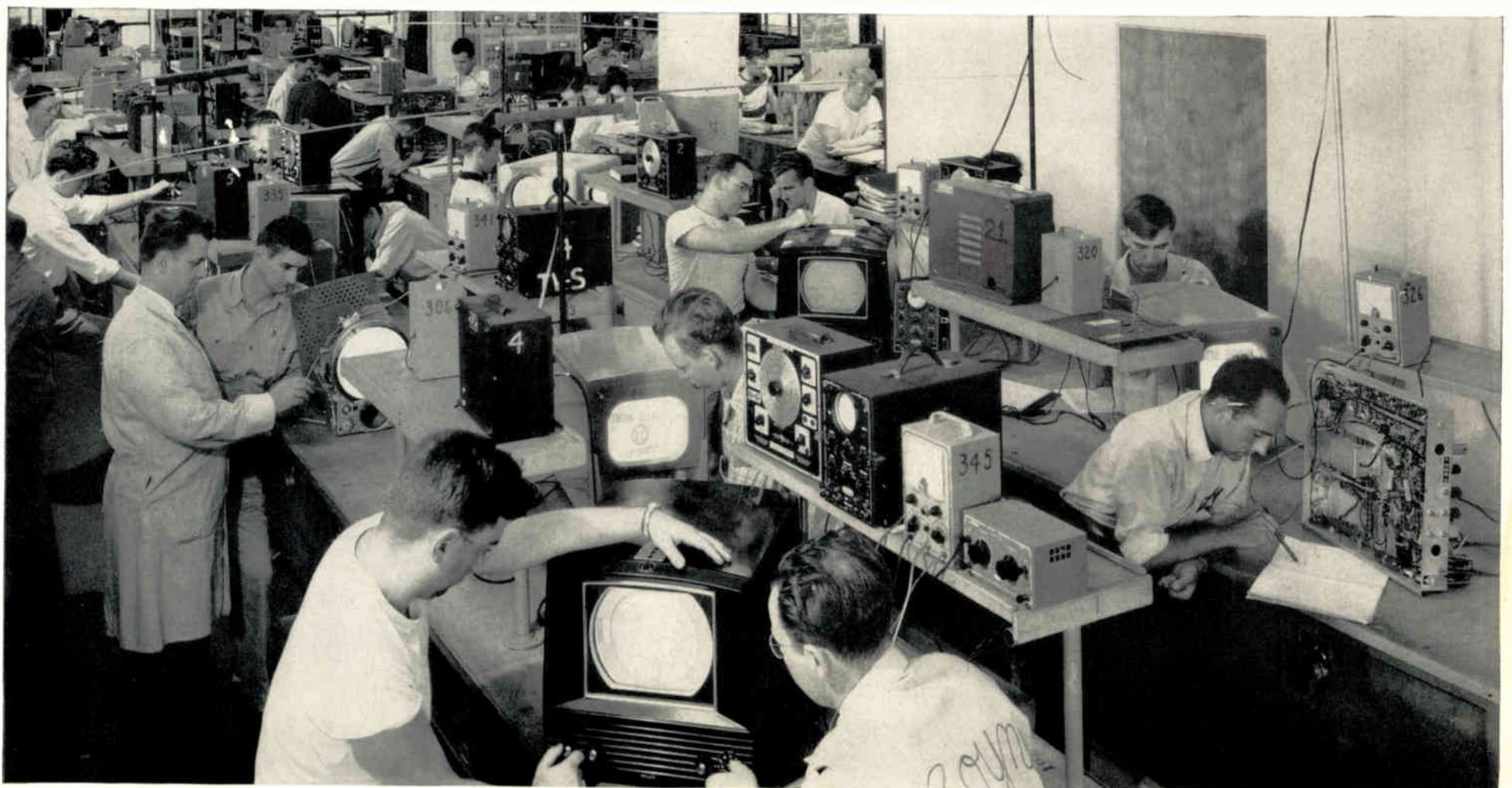
Naturally then, it requires trained, skilled men to install, service and maintain these complex receivers. The day of the "screw driver and pliers man" is over. To successfully enter this field a fellow needs training. Practical-technical training, the kind you get here in the Coyne Training Shops.

Some of the subjects covered in your technical training are: The study of television receiver, antennae systems. Block diagram of the television receiver, including operation and function of the controls in proper tuning. Breakdown of the composite video signal-function of the various pulses. Pulse clippers and separating circuits. Deflection oscillators, deflection amplifiers and deflection circuit controls. Video amplifiers. Alignment of television receiver. Procedure in localizing trouble. Trouble shooting, etc.

*(please continue on next page)*



The photographs above shows you our Television Studio and Control Room. An understanding of the fundamentals and operation of the Television Camera and the function and operation of Control Equipment is important to all Television Service men.

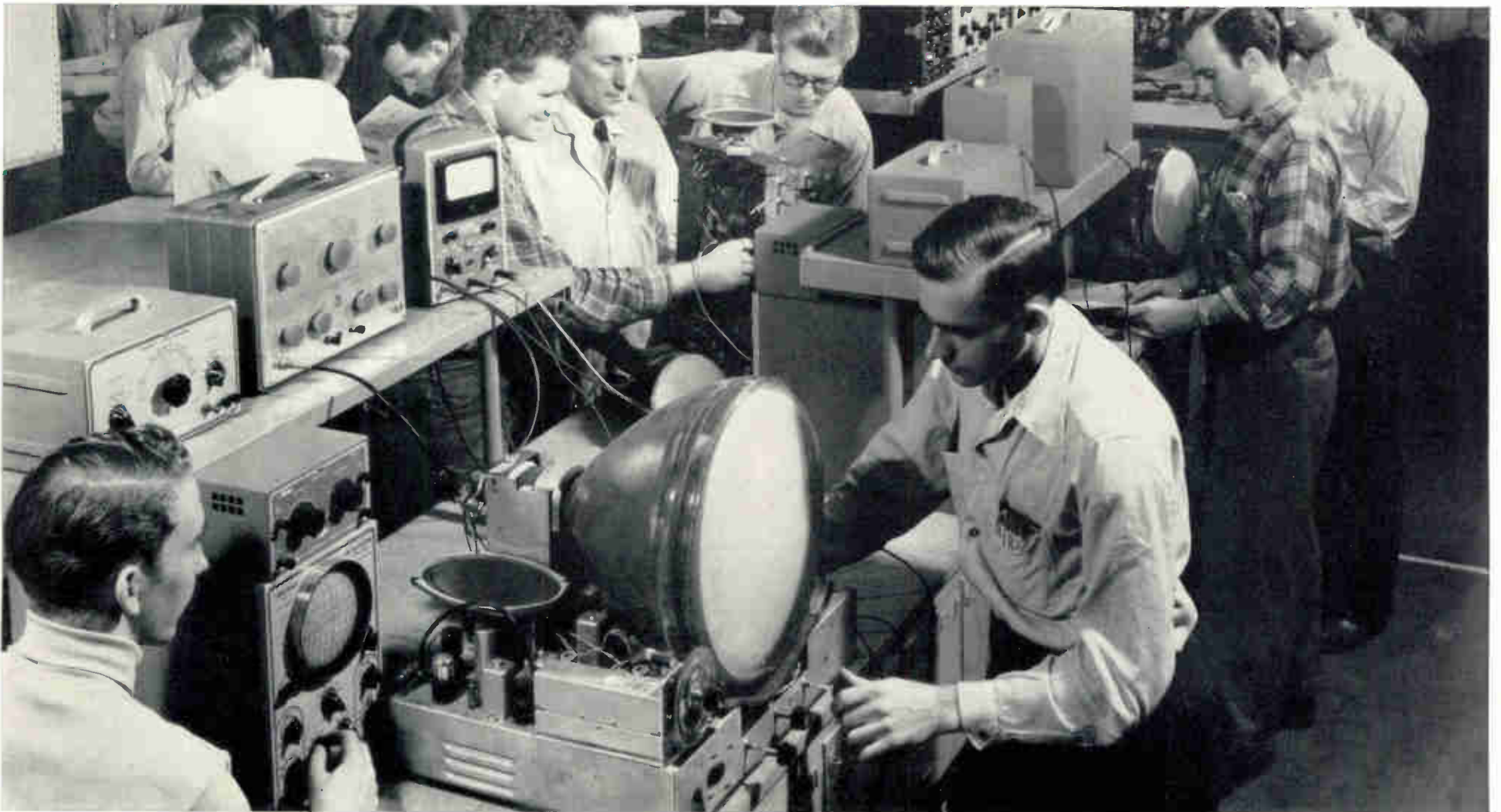


This is a general view of our Television Service Department. One of the important advantages of Coyne practical-technical training is the actual practice students get in using up-to-date television service instruments to locate faults and troubles in Television Receivers.



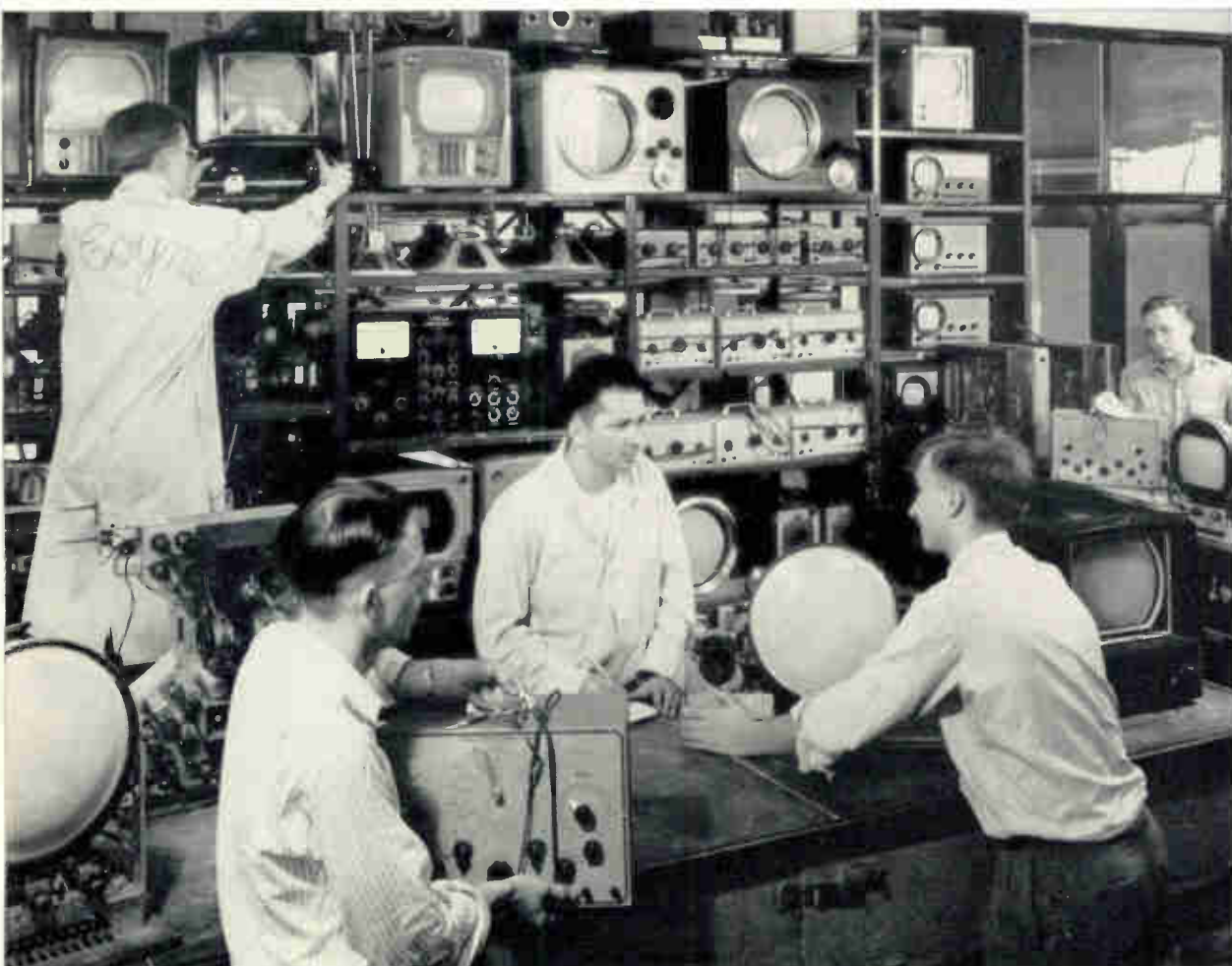
# TELEVISION SERVICE DEPT.

(continued)



This photo shows you one of our specially constructed Television Service benches in a section of the Television Service Department. Coyne Students working with Modern Television Test equipment gain valuable practical experience which gives them the

confidence and ability to do this same work out in the Television Field after they graduate. Notice the convenient arrangement of the work benches with the required test instruments within easy reach and placed at eye level for ease in reading the meters.



This photo shows you our Television Department Stock Room. Here students get their Television Receivers and Television testing equipment to make various tests and learn service procedures by actual practice.

(continued from page 36)

## You Work on Real Television Sets

**Y**OUR shop jobs in the Television Service Department include Television Antennae calculations, installation and adjustment. Tuning the television receiver, observing the composite video signal with an oscilloscope and identification of the various impulses. Checking deflection circuit waveforms, linearity of deflection voltages, checking the video i-f amplifier. Checking television receiver power supplies.

Alignment of i-f amplifier—alignment of r-f section. Localizing trouble by visual observation of the cathode ray tube screen and aural indication from the loud speaker. Localizing and correcting troubles in video amplifier, video i-f amplifier—in CRT and associated circuits—in the r-f sections. General service of Television receivers.

Shop experiments covered in this department deal with the video or picture signal, and the various circuits through which it passes from the receiving antennae to the cathode ray tube. This knowledge of theory and fundamentals is very essential to the proper diagnosis and correction of troubles arising in the video section of the television receiver.

(please continue on next page)



# TELEVISION SERVICE DEPT.

(Continued)

## Coyne Practical-Technical Training in TELEVISION-RADIO Can Prepare You For Many Opportunities in This Expanding Field

(continued from page 37)

**A**DDITIONAL training in this department includes the study of video amplifier circuits, D.C. reinsertion, kinescope tubes and image transmission features. Aerial design and construction. Instructions on transmission line matching between the aerial and the receiver. Measurements to determine the receiver sensitivity and measurements of the strength of the signal picked up by the antenna. Trouble shooting by aural and visual means. Adjustment of receiver operational controls, vertical centering and horizontal centering. Troubles in television receivers and their effect on the received image.

### Television Installation, Testing And Trouble Shooting

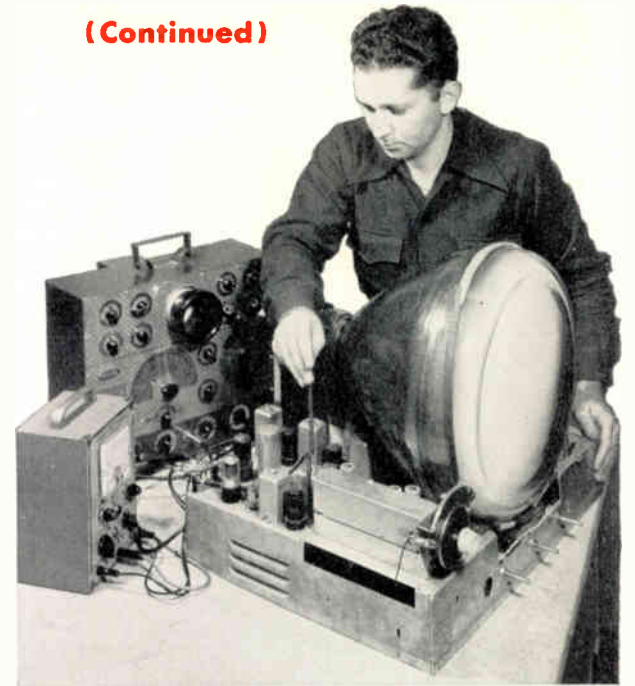
**A**N all-around Television-Radio man must have more than just training in radio. For that reason, here at Coyne you get the study of television receiver installation problems, location of receiver and position of antenna system, test instruments required to service television receivers, vacuum tube

voltmeter, sweep signal generators, wide range oscilloscope, high frequency signal generators. These instruments and a large number of television receivers are available for servicing purposes.

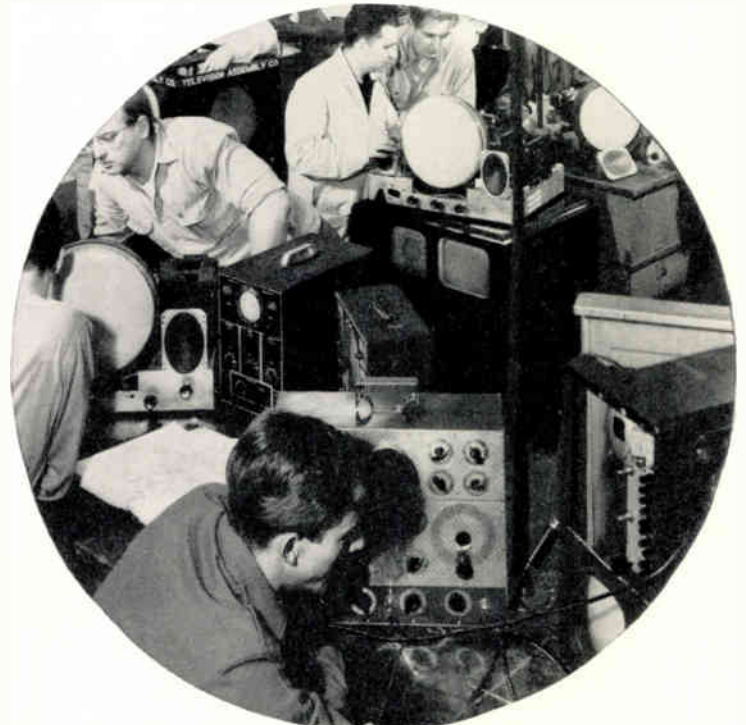
### You Work With Modern Television Test Instruments

**J**UST as a student learns to understand and use modern A.M. and F.M. test instruments for Radio he must also learn to use Television test instruments, and to test, check and service television receivers.

You learn how to use an OSCILLOSCOPE; you get construction and operating principles of a cathode ray tube, function of the various elements, constructional features of the high voltage power supply, precautions required to safeguard against high voltage shock, operating principles of the vertical and horizontal sweep circuits, application of the oscilloscope as a test instrument for alignment, trouble shooting and distortion checking; emphasis on the similarity between an oscilloscope and television equipment.



This is a close up view showing how a student gets practice in aligning a Television Receiver. Actual practical experience like this is needed for the better jobs in the Television-Radio field.

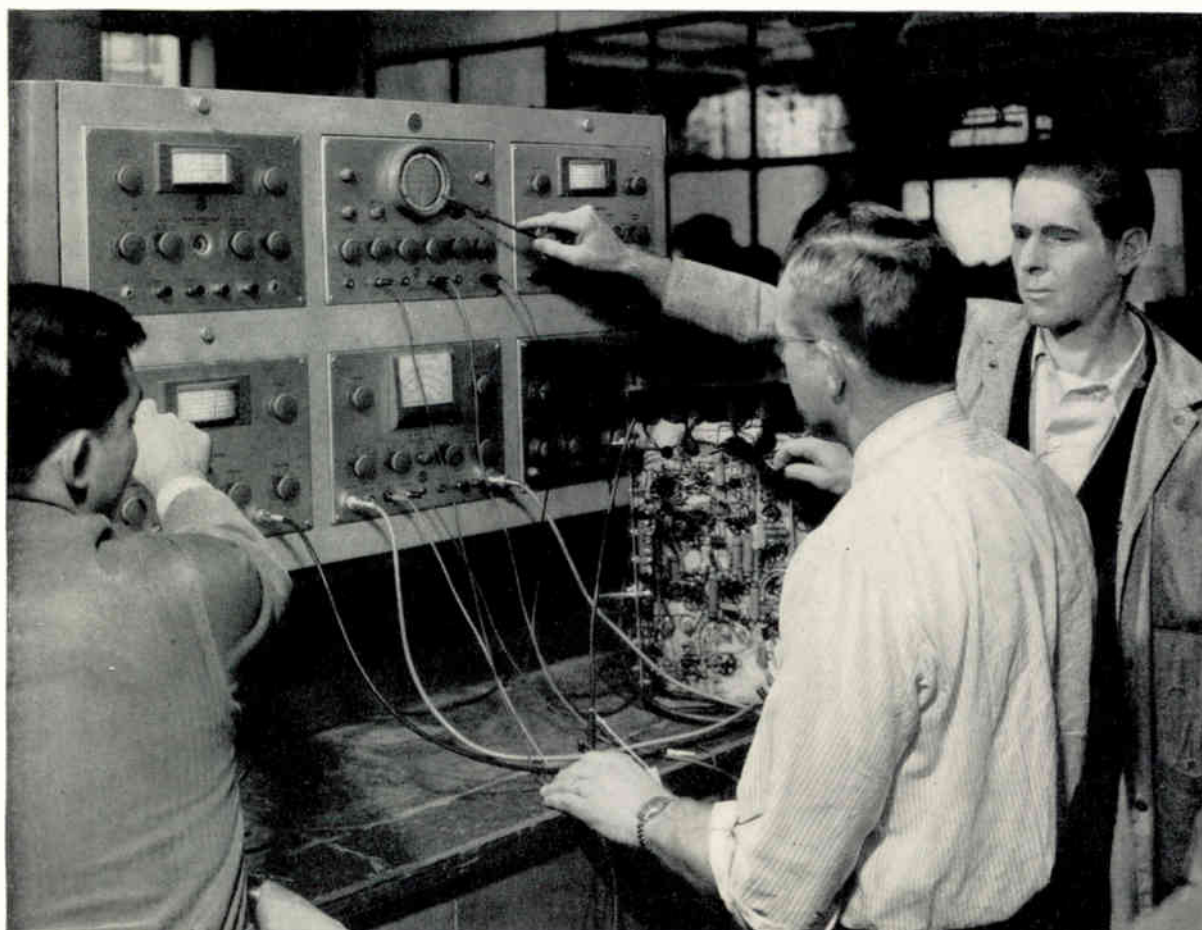


The photo above shows another section of our Television Service Department. Here you see students getting Television Service training right on actual Television Receivers using the latest, up-to-date testing equipment.

### Excellent Opportunities for Men with a Well-Rounded Television and Radio Training

**W**HEN you have satisfactorily completed the training in TELEVISION and RADIO that has been described, you will be ready to graduate and apply your training in this fast growing, progressive opportunity field—a field that should continue to offer greater and greater opportunities to the trained man in the years to come.

I AM SURE THAT AFTER READING THE SECTION DESCRIBING OUR TELEVISION-RADIO TRAINING AND STUDYING THE PICTURES YOU WILL REALIZE THE MANY ADVANTAGES OF COYNE TRAINING AND REALIZE THAT THE FAMOUS COYNE PRACTICAL-TECHNICAL SHOP TRAINING COURSES IN TELEVISION-RADIO GIVES YOU THE KIND OF TRAINING YOU NEED FOR A BRIGHT AND SUCCESSFUL FUTURE IN THIS GREAT FIELD. A few of the many opportunities in Television-Radio are listed on the following page.



This photo shows you one of the newest, most modern and complete testing panels in use today. This is the same type of testing equipment used in the most modern up-to-date service shops. Students learn how to operate and use this testing panel and make various tests on Television and F.M. Receivers under the supervision of experienced instructors.



# COYNE "All-Around" Training Prepares You for A World of Opportunities *in* TELEVISION - RADIO

## The Big Boom in Television Makes Your Future Brighter Than Ever

**T**ELEVISION has taken tremendous strides. Television is in the billion dollar industry class today and promises to be one of the ten major industries within a few years. The production of Television Receivers is constantly being increased and still cannot keep up with the demand. More and more Television Stations are going on the air.

Television right now is in the same position as Radio was many years ago. It offers the same exceptional opportunities to men and young men who will prepare by training for this great chance to get in on the ground floor of a great expanding industry and share in the great prosperity ahead.

But in order to cash in on these opportunities a fellow must have an all around Television-Radio-F.M. Training, the kind of training you get here at Coyne.

The days of the screw-driver repairman are gone. While F.M. and Television are still new, they are much farther ahead in technical perfection than Radio was at the same stage years ago. Trained Practical-Technical Television-Radio men are needed for the opportunities today and in the future years ahead.

On this page I outline some of the many lines of work in this great field offered to men and young men who have an all-around training.

## MODERN TELEVISION AND RADIO SERVICING

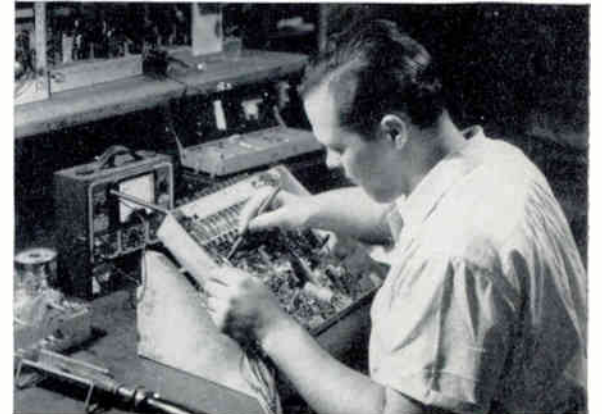
**T**HE days when a radio set could be repaired merely by changing a tube or a condenser are past and gone. Today's receivers are precision-built instruments that call for expert servicing. With the wide variety of Television, Radio and F.M. receivers on the market, including the many Radio-Phonograph combinations, Automatic Record Changers, etc., a fellow needs practical shop training—the kind you get at Coyne—to make good in this field.

Skilled Service Men are in constant demand by manufacturers, dealers and stores. Then, too, this is one of the best stepping stones to a business of your own. Coyne Practical-Technical Training is designed to prepare you for each of these opportunities in Installation, Sales and Servicing.



### TELEVISION AND RADIO MANUFACTURING

The Television and Radio plants of America need thousands of trained men for important jobs in the manufacture of sets, tubes, parts. Positions such as Phaser, Aligner, Assembly Man, Foreman, etc., all take special skill and training. Hundreds of Coyne Graduates are employed in this great field. The above photo shows trained television technicians in a section of the Motorola, Inc., plant. Motorola is one of the largest manufacturers of Television sets.



### FACTORY REPAIRING ON TELEVISION RECEIVERS

Repairing of production line rejected Television Receivers requires skill and training and pays good money to men who can qualify for this work. Many trained men are employed in this interesting work in large Television manufacturing concerns. The above photo is used through the courtesy of the Hallicrafters, one of the largest manufacturers of Television Receivers.



A modern Service Bench showing some of the equipment required to locate defects in modern Receivers. This is one of the most popular and profitable branches of the field.



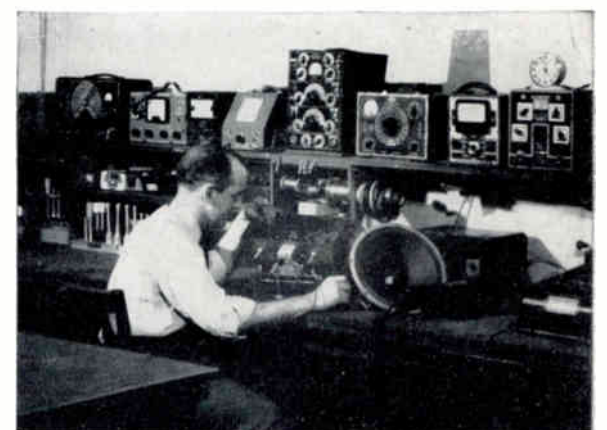
### A STORE OF YOUR OWN

Selling and servicing Radios, Radio-Phonographs, F.M. and Television sets can be a highly profitable business. Many Coyne graduates, as a result of their training in Merchandising as well as Servicing, have been able to open their own shops, and build a great future.



### TELEVISION SERVICING

Television installation and servicing offers unusual opportunities and good pay to men who can qualify. The above photo used through the courtesy of Hallicrafters shows one of their trained technicians, aligning, phasing, setting up controls and making factory adjustments on a Television Receiver.



### FREQUENCY MODULATION

"F.M." is one of the more recent developments resulting in what has been called "static-free reception." New research in this method of reception, and an increasing number of F.M. Stations throughout the country both mean greater growth in the field of F.M. Servicing. All television sets are equipped with an F.M. circuit for receiving voice and sound.



# Is It Possible to Learn "ON THE JOB"?

A STATEMENT BY J. P. HANAN  
SHOP SUPERINTENDENT

**W**E have been asked countless times whether it is possible for a fellow to go into a plant or shop and "pick up" a knowledge of Electricity, Television or Radio while working on the job.

My answer to this question is—No! Of course it may be quite possible to get a smattering knowledge under such conditions. In fact, some fellows have tried it, and after a year or two or three, consider themselves to be trained men.

But it is impossible to get an "All-Around" knowledge of types of Electricity, Television and Radio apparatus and equipment on the job. And you need this All-Around knowledge and you must understand how and why the equipment operates and how to service and maintain it.

## Shop Employes Not Trained to Teach Others

**U**NLESS you look into it carefully, the idea of getting your training on the job sounds fine. But it has very serious drawbacks.

Let us say you are assigned as a helper to an "old-timer"—a man with years of experience who presumably "knows the ropes." Can he take the time to explain to you the fine points of each job? Naturally not. He's paid for what he does, and it's easier for him merely to turn over the simple tedious part of the work to you and go ahead on his own hook with the parts that require skill.

Moreover, such a man is not trained in teaching other fellows. He doesn't have the patience to go over and over each step until you master it. Then too, if he "learned his trade"

several years ago, he is not apt to be posted on the later, more improved methods.

But most important—this plan of learning on the job doesn't give you the basic principles, the "why" of the work as well as the "how." Unless you know that, you can't hope to advance very far.

## Why Limit Your Future?

**H**ERE in the great shops of Coyne you have an opportunity to work on a wide range of Electrical, Television and Radio apparatus and equipment. Coyne students have floor after floor of life sized equipment to work with and train on.

Now compare this to any factory or shop where you might go with the idea of learning on the job. No matter how large a place it might be, it can't give you the variety of training you get here. If it is a factory, you will work only on one type of work or whatever the manufacturer makes; you won't become familiar with the other types of equipment covered in our course.

Instead of getting "All-Around" training, you will be tied down to a single branch of the field. You will be in grave danger of landing in a "one-operation" job with little or no chance for advancement. And should you hear of a better opportunity in some branch of the field, you won't have the necessary know-how to take advantage of it.

## Great Opportunity Now for Trained Men

**W**HETHER you are a young man of 16 or as old as 40—whether you have had advanced education or not—whether you have had previous Experience or not—YOU CAN SHARE



Mr. Hanan, our Shop Superintendent, has for many years guided the progress of thousands of students, through the Coyne Training Shops. Mr. Hanan has been with us for over 20 years and is in direct charge of our training shops. His many contacts with industry through these many years, makes him particularly well qualified to answer two questions, "Is it possible to learn on the job?" and "Can Coyne Training be Taken by 'Home Study'?"

IN THE GREAT PROSPERITY IN THE ELECTRICAL AND TELEVISION-RADIO FIELD.

BUT I WANT TO EMPHASIZE THIS POINT—the man who benefits most have more than just a smattering knowledge of one or two branches. He must be trained in the principles and fundamentals of the field and he must have all-around training and experience with the real life sized apparatus and equipment.

HERE AT COYNE YOU GET THIS TRAINING. YOU ARE GIVEN THE TRAINING THAT WILL GIVE YOU WHAT YOU NEED FOR A REAL SUCCESSFUL FUTURE, FULL OF OPPORTUNITIES IN THE INTERESTING AND FASCINATING FIELD OF YOUR CHOICE.

# "Can Coyne Training Be Taken by Home Study?"

**M**ANY fellows have wanted to know if Coyne had a correspondence or home study course. Absolutely no! All COYNE Training is practical-technical training on real equipment right in our Training Shops in Chicago. COYNE has NEVER ATTEMPTED TO GIVE TRAINING IN PRACTICAL SUBJECTS LIKE ELECTRICITY OR TELEVISION-RADIO BY CORRESPONDENCE.

While some subjects can be taught satisfactorily by correspondence, I BELIEVE IT'S A DIFFERENT PROPOSITION WHEN IT COMES TO LEARNING THESE PRACTICAL SUBJECTS.

Assuming that students want to prepare for actual work on Electrical-Television-Radio equipment, then I feel they need a training that gives them the actual workable knowledge and experience to do this work.

If a fellow is to get a training that can be applied in actual work in the field, I believe he requires a TRAINING THAT WILL GIVE HIM THE EXPERIENCE HE NEEDS.

I HAVE OFTEN FOUND THAT FELLOWS WHO LEARNED ENTIRELY BY CORRESPONDENCE COULD TELL YOU ABOUT

THE THEORY, BUT COULD NOT PUT THIS THEORY INTO PRACTICE.

Yes, you get all of your Coyne training right here in our big training shops and school in Chicago. And when WE speak of TRAINING, we don't mean lessons sent by mail and perhaps a few weeks of "lab work" after completing a home study course for a smattering of practical work. Neither do we mean home study along with a few pieces of equipment that might be furnished.

NO SIR! WE MEAN SYSTEMATIC PRACTICAL-TECHNICAL TRAINING—that's the Coyne method of training and the right method proven by over a half century of training experience.

Just try and compare any equipment that could possibly be sent to you along with a correspondence or home study course, with the equipment in our five big floors of Training Shops.

I will leave it to your judgment whether or not such material that could be sent to a student would give him the necessary practical experience he wants and needs. I leave it to your judgment whether a few weeks' visit to a "laboratory" at the end of a home study course,

for a smattering of practical work could compare with the combination of Technical Training and the application of this on actual practical jobs in our training shops here at Coyne.

Here at COYNE A STUDENT NOT ONLY GETS PRACTICAL EXPERIENCE ON A VAST AMOUNT OF ELECTRICAL and TELEVISION-RADIO EQUIPMENT, but HE CAN GET PERSONAL INSTRUCTION AND ASSISTANCE AT ANY TIME FROM OUR STAFF OF EXPERIENCED INSTRUCTORS.

If a student attempted to get this instruction from lessons, then he would have to dig out the problems from a set of lessons prepared and printed exactly alike for every student, whereas perhaps each student has different problems that I feel can only be properly handled by individual contact with experienced instructors.

So, I'll leave it to you as to whether a course of correspondence or home study would even approach the training you get HERE AT COYNE ON ACTUAL ELECTRICAL AND TELEVISION-RADIO APPARATUS AND EQUIPMENT. Many fellows come to Coyne every year who have tried to learn by correspondence but who discovered they were not getting the practical experience they needed.



# You.. as a **COYNE GRADUATE**

## will benefit throughout Life from these many important services

**A**FTER you have completed your Coyne Training and are out in the field, we stand behind you and aid you in many ways. The expression—"ONCE A COYNE MAN, ALWAYS A COYNE MAN"—is based not only on the training we give our students, but on the way we back them up in later years.

That's why our graduates recommend us to their friends. They would not do this if they themselves were not our friends.

We have many services for our graduates. Each of them is designed to help you get more out of your training. **THERE IS NO EXTRA CHARGE FOR ANY OF THESE SERVICES.**

The most important, perhaps, is our Lifetime Employment Service. We do not guarantee a job to any graduate nor does any other reputable school. However, we give you every assistance in getting located and are very proud of the record made by this department.

Hundreds of calls for Coyne Graduates come to us every year from firms in many parts of the country. Many such requests come from employers who already have one or more of our graduates working for them. We promptly notify you of such a request in your locality, then follow this up with special letters of recommendation.

You can use this service to help land your first job after graduation, or to aid you in getting a better job, or whenever the need arises. Like the other services explained below, it is yours without cost, throughout life.

We want your friendship both as a student and a graduate. That has been the guiding principle of Coyne for over half a century, and it will always remain that way.



## **COYNE** *Lifetime* **GRADUATE SERVICE**

—You Get All These Without Extra Costs After Finishing Course

### **LIFETIME EMPLOYMENT HELP**

We supply "leads" on prospective jobs, tell you where new projects are opening up, send letters of recommendation, keep in constant touch with employers who may need men. Scores of Coyne Graduates are in business for themselves or do the hiring for their company. Naturally, they prefer Coyne-Trained men.

### **REVIEW PRIVILEGES**

Any graduate in good standing may come back to Coyne and review any part of the training for which he enrolled as outlined in our Life Membership Certificate.

### **CONSULTATION SERVICE**

This entitles you to technical advice by mail on any problem in connection with your daily work, whether you are in business for

yourself or employed in a job. Members of our technical staff give personal attention to all requests from our graduates. Use this service as often as you need it, at no extra charge.

### **COYNE PUBLICATIONS**

From time to time we issue Technical Bulletins on new developments, improvements in testing equipment, and other timely subjects. As a graduate you receive these bulletins without cost for life.

### **MERCHANDISING SERVICE**

If you go in business for yourself, we are glad to advise you on sources for supplies, as well as your sales and advertising problems. Many times we are able to help our graduates save money or prevent costly mistakes. This service is given without charge whenever a graduate requests it.



# Let These Graduates Tell You ELECTRICITY and

## TWO FIELDS THAT OFFER Interesting Work.... and a

### THESE GRADUATES ARE SUCCESSFUL IN A BUSINESS OF THEIR OWN

We have room here to picture only a few of the hundreds of Coyne Graduates who through Coyne Training have been able to open and operate a successful business of their own. Opportunities like these are unlimited to the fellow who has ambition and determination and gets the training he needs to make his start.

#### STARTS RADIO BUSINESS WITH COYNE TRAINING AND \$200.00



John A. Wilson, Jr. started this profitable business with a capital of only \$200.00 in his own home. Now he has this well equipped service shop and he credits Coyne for his start.

#### HAS PROFITABLE ELECTRICAL BUSINESS



Gilbert Wenzel recently opened this fully equipped Electrical Service Shop. He says, "When I started I didn't have anything but Coyne Training and the ambition to succeed."

#### HAS HIRED SEVERAL COYNE GRADUATES



Jewel Larson progressed from a small start to the well equipped and profitable business above. He has been able to hire several Coyne Graduates, for as he says, "They know what they're doing and their work is tops."

#### CREDITS COYNE FOR SUCCESS



Edward Drangle was a Cab Driver before coming to Coyne. He is enthusiastic in claiming that Coyne Training put him on the pathway to a successful future in the Electrical and Refrigeration Business.

**T**HE letters you read on this page are from fellows who were once in the same position you may be in today. They were untrained and wondering, just as you may be wondering, "What must I do to hold down a good job or have a business of my own in the great fields of ELECTRICITY or TELEVISION-RADIO!"

They realized that to the fellow who is prepared by training today, these great fields offer them the choice of many interesting types of work and many different jobs.

**ELECTRICITY** has always been an expanding and progressive field. This is an interesting field of work, offering opportunities to thousands of new employees each year. It's a field that can be entered with confidence that a man can progress step-by-step to the future he has planned for himself.

**TELEVISION-RADIO** is an outstanding field of opportunity. **TELEVISION** offers some of the greatest chances for a real future that a fellow could have in his lifetime. **TELEVISION** will soon reach every small town and Rural Community in the United States. This field offers a chance to get in on the ground floor of a great new industry and grow and prosper as this industry expands.

The jobs these graduates tell about represent only some of the many opportunities in the great fields of **ELECTRICITY AND TELEVISION-RADIO**. I'm sure you'll agree with me when I say that opportunity for the trained man will continue to grow and grow and offer you the kind of future you have planned for yourself in the years ahead.

## READ JUST A FEW LETTERS Making a Success in th

### PROUD OF COYNE DIPLOMA

"I cannot express the value of my Coyne education, for as a result of it, I am now employed at . . . . Radio Service, exclusive Philco dealer, which is the largest and also the finest radio and refrigeration store in my home town. I am well pleased with my job and have Coyne to thank for it.

"When I enrolled at Coyne last July, I didn't have any idea of how the inside of a radio set looked. I am now repairing an average of ten and fifteen radios a day.

"There is a great future in the Radio and Television field and I would advise anyone, even the least bit interested, to take this course. In my opinion there is no other school that can train as well as Coyne.

"Believe me, I am proud of my Coyne graduation diploma."

Sincerely,  
Eugene E. Naumann, Texas

### TRAINING A STEPPING STONE TO SUCCESS

"I took your Electrical and Refrigeration course in 1946. I left Coyne and started to work in the Refrigeration field.

Now I am the authorized Frigidaire Serviceman for three counties here and the service manager for the Frigidaire Commercial dealer here.

I know the training I received at Coyne was my big stepping stone and the basic reason for my success."

Yours truly,  
Hoyle B. Holt, Oklahoma

### EMPLOYED AS MAINTENANCE MAN

"I was a graduate in the May class of last year. And my training there has certainly come in handy in the past few months. At the present, I am employed as a telephone maintenance man for a large Coal Company and am doing quite well at it, due to the all around training I received at Coyne."

Sincerely yours,  
Joseph L. Jarrett, West Virginia

### TRAINING GOT HIM JOB

"I have become employed by the . . . . . as an Installer-Repairman.

It is a very good job and I can sincerely say that the training I received at Coyne put me in that position."

A graduate,  
Troy Rakes, Virginia

### RECOMMENDS COYNE TRAINING

"When I graduated from High School, I decided to learn how to service Radio and Television receivers.

"Knowing very little about Radio and Television, I had to enroll in a school that would teach me the necessary theory and get enough practical training on servicing different types of radio receivers to insure me of a good working knowledge about Radio and Television.

"After carefully considering all possible schools, I enrolled at Coyne and I am now doing very well at Radio and Television work. I would certainly recommend Coyne to any High School graduates interested in learning Radio and Television."

Sincerely,  
Arnold M. Herman, Illinois

### HAS RADIO-TELEVISION SHOP

"After I graduated from Coyne, I opened my own business in this town. I now have a service bench that is in keeping with the times. I carry in stock—General Electric, Stromberg Carlson, Motorola and Capehart radio and television. I do all of my sales and service.

"Best of good wishes to Coyne."

Sincerely yours,  
G. L. Hobson, New York

### TRAINING THOROUGH AND VALUABLE

"I am working as a maintenance electrician which of course would not be possible were it not for the training I received at Coyne. It has for sometime been quite apparent to me how thorough and valuable the training is that you give in your course. I think the most of us have to be out in the field a while to fully realize that fact, and to really appreciate the thoroughness and completeness of your course."

Yours truly,  
P. E. Thor, Illinois

### PRAISES COYNE TRAINING

"I wanted to write you sometime back and let you know that I have been getting along just fine since I got back, but I just didn't get around to writing. I have done quite a bit of refrigeration and electrical work since I got back. I now have a job with . . . . . doing refrigeration and air conditioning. I think I profited greatly by coming to your school."

Yours truly,  
James E. Arrington, Virginia



# How Trained Men Can Succeed In TELEVISION-RADIO

## MANY OPPORTUNITIES Happy Prosperous Future

### Many Opportunities For a Business of Your Own

**I**N addition to the scores of interesting jobs that the Electrical and Television-Radio fields offer, COYNE TRAINING ALSO PREPARES STUDENTS TO GO INTO BUSINESS FOR THEMSELVES AND BE INDEPENDENT AS THEIR OWN BOSS.

*I don't know of any other fields that offer a fellow greater opportunities for establishing a business of his own.*

Many Coyne Graduates have opened up a business of their own with only a small working capital and made a success as Contractors, Appliance Dealers and Owners of Service and Repair Shops.

AN OUTSTANDING FEATURE OF COYNE TRAINING IS THE BUSINESS SERVICE OFFERED TO EVERY GRADUATE AS DESCRIBED IN THE ANSWER TO QUESTION No. 17 ON PAGE 45.

**N**OW, I have given you just a few examples of the various industries for which the training you get here at COYNE prepares you. But we do not stop when we have given you the training you need for work in these great fields. We back you up with Employment Service for life and then we don't stop even after you have become located in a job, but through our Consultation Service, Review Privileges and other features of our Graduate Department which I tell you about on page 41, we want to help you build yourself up in that job, increase your success and make it as great as we can.



### THESE GRADUATES ARE WORKING ON GOOD JOBS IN ELECTRICITY AND TELEVISION-RADIO

#### THANKS FOR ALL I'VE LEARNED

"I graduated from Coyne on September 23rd, 1949 and came home and started to work. I have had only a few days off from work since I came back. We have put in a substation, transformer, banks and belt lines with induction motors and I have done many other various types of work.



J. L. Webb

Thanks to Coyne for all I learned while there. I have found the Coyne Electrician's Handbook and the Trouble Shooting Manual a great help in my work. Also the 8 Volumes of Practical Applied Electricity. I have all of these books and can tell all the students for me that it would be well worth the money if they could buy all Coyne books.

Best wishes and all the luck in the world to the greatest school in the world. Keep up the good work. Tell all the instructors 'hello' for me. Again I want to say thanks to Coyne for all I've learned."

Sincerely yours,  
J. L. Webb, Kentucky

#### THANKFUL HE WENT TO COYNE

"I would like to write you and tell you how thankful I am that I had the chance to go to your school and the reason why I did.



Edgar W. Garner, Jr.

"Before the war I was a shovel operator and I had a good job in Birmingham, Alabama. Then the war came, and I knew that I would be drafted so I joined the 'Gee Bee's' as it was my line of work. It so happened I was disabled while in the service and was unable to continue my line of work.

"I had always been interested in Radio so I decided to train at Coyne because boys who had been to your school gave me the best reports on your training. I am very happy to say that from the training I received I have a very good job in Television with . . . . I have been with them thirteen months and have received seven raises. I wish to thank you again for the training I received."

Sincerely yours,  
Edgar W. Garner, Jr., Illinois

#### CREDITS TRAINING FOR HELP

"I was a graduate in December, several years ago and started servicing Radios and Refrigerators for . . . & Co. I continued this for two years at which time another fellow and I opened up a Radio Service Shop in Bellefontaine, Ohio. We operated the repair service for about 9 months. This was prior to my accepting a job as a trouble shooter with the . . . Radio Co. in Sandusky, Ohio at which time we closed the repair shop and worked full time on the job.



Ernest S. Portner

"At the present time am employed at . . . operating the Chrysler Auto Radio line. This is a custom set for Chrysler Corporation, and I give all my thanks and credit to my training at Coyne which has helped me all along the way."

Yours truly,  
Ernest S. Portner, Ohio



## FROM COYNE GRADUATES These Opportunity Fields

### COYNE RADIO TRAINING TOPS

"I'm very pleased with the interest Coyne takes in us your graduates. With a lot of schools it's 'get your money and that's all, brother.'

"I can sincerely say that Coyne radio training is tops. It helped me immeasurably.

"At present I am radio serviceman for the local branch of . . . . Electric Supply Co., distributors of . . . . appliances. Also running a shop of my own, as you can see from the above.

"My best regards, especially to Mr. Frech, and to all of my friends at Coyne."

Sincerely,  
Rudolph A. Zenker, Ohio

### READY FOR PROMOTION

"I wish to express my appreciation for the training I received at Coyne.

Since graduating, I have obtained a job on the . . . . railroad. I feel that the training I received at Coyne helped me to get the job, also I feel that if a promotion comes up, I will be able to handle it.

I recommend highly 'Coyne Electrical School' to any boy or man interested in electricity."

Sincerely,  
B. L. Burke, Florida

### WENT TO WORK AT ONCE

"Went to work on April 22nd and have worked six days a week ever since. I work at the . . . . in the Electric shop. I appreciate your school a lot and all it did for me."

Your friend,  
Odus J. Pierce, Tennessee

### COYNE TRAINING A BIG HELP

"I am still an engineer here at . . . . and like it fine.

"The first of January I bought a radio shop from an elderly man here and moved it to my father-in-law's where I am taking in some extra work on the side, doing radio repairing.

"I like it real well and hope some day to have my own appliance store with a repair department for all types of electrical equipment. Coyne training has certainly been a big help to me."

Sincerely,  
Richard D. Rose, Indiana

### THANKS FOR WONDERFUL TRAINING

"I have been meaning to write this letter for a long time but just couldn't find time.

"To start with I want to thank the Coyne Staff for the wonderful training they gave me.

"I am a test set construction and maintenance man in the . . . . Electric Company Electronics Plants in . . . . Pennsylvania. Being a Coyne graduate got me this job. At the plant we make radio tubes, resistors, condensers and most anything. I myself work in the Bell Telephone Laboratories there where we do all the experimental work. All of this was made possible by Coyne.

"Wishing you luck on your 50th anniversary and many many more years of success."

I remain,  
Edward J. Kinney, Penna.

### TRAINING RESPONSIBLE FOR JOB

"At the present I am employed at the . . . . Division of the . . . . Mfg. Co. in Cincinnati. I am working on Television sets.

" . . . . I have been working here about 10 months. Coyne training is responsible for my job and I'd certainly recommend it to anyone."

Sincerely yours,  
J. D. Sutton, Ohio

### COYNE TRAINING HELPS IMMENSELY

"I am at present working for . . . . serving my basic training to become in due time an elevator inspector. My schooling at Coyne will help immensely in understanding the complicated electrical setup which lies behind modern day automatic elevator installations.

I intend to make the most of this opportunity—also accept my thanks for the fine schooling we received at Coyne."

Best wishes,  
Robert V. Mehlenbeck

### GETTING ALONG SWELL

"Just thought I would drop a line to let the school know I'm getting along swell and business is good.

I'm working for myself wiring houses and doing odd jobs of motor repairs."

Sincerely yours,  
Ray B. King, Tennessee



# Here Are **10 BIG REASONS**

## Why You Should Get Your Training at **COYNE**

**W**HEN you are choosing a training, there are several important things to consider. But, **THE MOST IMPORTANT THING TO KEEP IN MIND IS—YOU ARE MAKING A LIFE TIME INVESTMENT.**

It is preparation to make the best use of your ability. Its purpose is to take you out of the monotonous type of job that can't offer you any kind of future security. It should be your best insurance against unemployment. And, in the years ahead, your training should enable you to get all those things you want for yourself and your loved ones . . . a car . . . a nice home of your own . . . an education for your children . . . and the other things that go to make up a full and happy life.

For these reasons you can't afford to gamble with your future, you owe yourself the best training you can get **FOR IT IS SOMETHING THAT YOU ARE GOING TO HAVE ALL YOUR LIFE.**

We could, no doubt, give you training for less money if we took out certain features in our training. We could very easily take out two or three features. We could cut down on our equipment and most important of all, we could cut down on the service and the help we give you both as a student and as a graduate. These services are not, strictly speaking, a part of the training, but we are convinced that they are important. **FOR ALL THESE THINGS GO TOGETHER TO MAKE YOUR TRAINING VALUABLE ALL THROUGH YOUR LIFE.**

We have always felt that the actual training given to our students (which must be the best) is after all only a part of our obligation to them. We feel that it is just as important to give them every possible help and assistance not just while they are in school, but also **AFTER THEY GRADUATE . . .** and not just for the first few months after they leave school, but for the rest of their lives—whenever they want it.

I want to call your attention to the many outstanding features of COYNE, and I believe that after considering each one of these very carefully you will be satisfied that the money you pay for a course in **THE GREAT TRAINING SHOPS OF COYNE** is an investment that can pay you dividends all your life.

Now I want to give you 10 important reasons why you should select COYNE for your training:

### **1 OLDEST, LARGEST AND BEST EQUIPPED SCHOOL OF ITS KIND IN AMERICA.**

COYNE was established way back in 1899 and has a background of over 50 years' experience in training men and young men for better jobs. Hundreds of successful COYNE Graduates are proof of the thoroughness and value of COYNE TRAINING.

### **2 COYNE HAS A NATIONAL REPUTATION.**

COYNE is a nationally known institution with a record of more than 50 years of fair business methods. COYNE is the best known school of its kind in America, which means that Graduates of COYNE will be welcome in hundreds of firms throughout the United States because for

### **OVER 50 YEARS OF TRAINING EXPERIENCE**

Our school of practical training was established in 1899 and has been in continuous operation ever since. Thousands of men and young men have come to Coyne for their training from every state in the Union and many foreign countries.

During this more than half a century Coyne has progressed continually. We have kept pace with the tremendous growth of Electricity, Television and Radio, constantly adding new equipment and including the latest development in our training.

**COYNE IS A TRIED AND PROVEN SCHOOL. OVER 50 YEARS OF TRAINING MEN FOR BETTER JOBS AND SUCCESSFUL FUTURES PROVES THIS BETTER THAN ANYTHING WE CAN TELL YOU. DON'T LET ANYTHING STOP YOU FROM COMING TO COYNE TO GET THE PRACTICAL TRAINING YOU KNOW YOU NEED FOR A REAL SUCCESSFUL FUTURE, FULL OF OPPORTUNITIES IN AN INTERESTING AND FASCINATING FIELD.**

over half a century we have been training men to become successful graduates.

### **3 COYNE TRAINING IS PRACTICAL-TECHNICAL TRAINING.**

At COYNE you learn by getting technical training and theory and applying this by doing actual shop work on real Electrical and Television-Radio Equipment—the same type that you will expect to work on out in the field after you finish training.

### **4 ALL COYNE TRAINING IS GIVEN IN OUR BIG CHICAGO TRAINING SHOPS—NOT BY MAIL.**

Here in our great training shops in Chicago, we have floor after floor of Electrical and Television-Radio Equipment for students to work with and train on. We do not teach by mail. Neither do we have you study printed lessons at home and then have you come here for a short visit for just a smattering of practical work. **YOU GET ALL YOUR TRAINING RIGHT HERE IN OUR CHICAGO TRAINING SHOPS,** under the guidance of a staff of trained instructors.

### **5 YOU ARE TRAINED IN ONE OF THE GREATEST ELECTRICAL-TELEVISION-RADIO CENTERS.**

COYNE IS LOCATED IN CHICAGO, one of THE GREATEST ELECTRICAL, TELEVISION AND RADIO CENTERS IN THE WORLD and students have the opportunity to get their training in this great Industrial Center.

### **6 COYNE HAS A GREAT ORGANIZATION.**

COYNE is not a one-man organization. I am mighty proud of the COYNE Staff. They are all real fellows and most of them have been with COYNE for many years. They are practical men, and each is thoroughly familiar with the work in his department. You will find all of them friendly, sincere, patient and understanding, and always ready and willing to help you

with your problem. You are given every service **WHILE A STUDENT,** such as personal attention in the selection of your living quarters and the benefit of our advice and experience with other school problems.

### **7 COYNE OFFERS LIFETIME EMPLOYMENT SERVICE TO GRADUATES.**

After you graduate, you are given employment service whenever you request it as long as you are in good standing . . . not just to help you get a job right after you leave school, but anytime later when you want to change jobs. You just register with our Graduate Department, telling them where you want to locate, etc., and they will immediately give you assistance in locating a job for you. I don't know of another school that has a Graduate Employment Service as efficient as COYNE'S, and we don't charge a cent for this service. These services are fully outlined on page 41.

### **8 CONSULTATION SERVICE AND OTHER GRADUATE SERVICE.**

As a COYNE GRADUATE your LIFE MEMBERSHIP also entitles you to **CONSULTATION SERVICE** whenever you wish it. By this, I mean that whenever you run into any problems connected with your work after you leave school, you can write in to the Graduate Department and explain what you want. Then they will work out a solution and send it to you without any charge.

### **9 COYNE TRAINING LASTS A LIFETIME.**

Yes, COYNE training will last the rest of your life. Every COYNE Graduate gets a Life Membership which entitles him to return and review any part of the course for which he enrolled, or take up new phases that have been added as outlined in our Life Membership Certificate.

### **10 A TREMENDOUS OUTLAY OF EQUIPMENT.**

You are trained on one of the largest outlays of Electrical and Television-Radio equipment of any similar school in the country—equipment that is modern and up to date, as well as some of the older equipment that you will find is still being used in many places.

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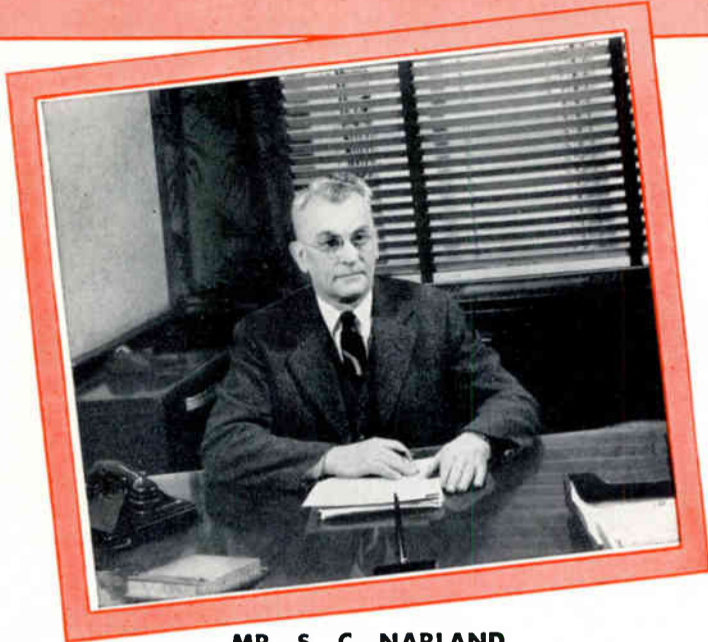
**I** WANT you to consider carefully all of these important facts I have told you here. I want you to realize that when you come to COYNE nothing is going to stop us from giving you every help within our power to make you a success. **BECAUSE WE WILL DEPEND UPON YOU AFTER YOU GRADUATE TO RECOMMEND OUR SCHOOL TO YOUR FRIENDS.**

### **COYNE HAS NO BRANCHES**

Coyne has no branches nor are we associated or connected with any other school. I feel all OUR EFFORTS should be confined to one school, and we couldn't spare the time to split our interests in several places. You have only one training to give yourself; look for the best money and experience can give you. Don't take a chance with your future. Prepare for your future by getting Coyne Practical-Technical Training.



# Here are the ANSWERS TO YOUR QUESTIONS



MR. S. C. NARLAND

by MR. S. C. NARLAND

VICE-PRESIDENT and GENERAL MANAGER

Note: Mr. Narland's many years of experience in the Educational field, of which nearly 30 years have been spent here at Coyne, has given him an exceptional understanding of school operations and the needs of students. You will find him ready and willing to answer any questions you may have as a Coyne Student, just as he is now ready and willing to answer any questions you may have in mind before coming to school.

Throughout this book, we have tried to answer every question you would probably want to ask, but we want you to feel free to ask any other questions you may think of. Also, if our explanations are not perfectly clear to you, don't hesitate to write. We want you to thoroughly understand everything about our 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; if it's of a confidential nature, it will be kept confidential.

## 1. When is the best time to enroll?

Our school is in session all year. In addition to the individual, practical shop training here at Coyne, there are very important instructor's lectures and equipment demonstrations, including sound motion pictures, which must naturally be given in logical sequence. So every student can start at the beginning of a period and get this training in logical sequence, WE HAVE A DEFINITE SCHEDULE OF STARTING DATES. New students are started on scheduled Starting Dates as shown on our Starting Date Schedule.

## 2. What do you mean when you say "Practical Method" of Training?

This is a question I'd like to fully explain. For example, when you went to school or if you have ever taken a correspondence course your work was mostly from books, lessons and diagrams. This is called theory. When you work on actual equipment, that is called practical work. To be a well trained man it is necessary to have both theory and practical training.

Here at Coyne you get your technical training and theory through lectures by your instructor, supplemented by blackboard illustrations, diagrams, films, strip films, and equipment demonstrations. This is getting theory in a practical way. Then you apply this technical knowledge by working out these problems on actual Electrical and Television-Radio Equipment in our training shops. This then, is our "Practical Method" of training.

## 3. Is your building modern and fire-proof?

Absolutely; our building is of modern steel and concrete construction, light on all sides and ventilated. We occupy every foot of the building for our own use.

## 4. Is your building centrally located?

Only a few minutes from the loop and still right in the heart of the Electrical and Television-Radio Industry. Chicago is one of the world's greatest Electrical Television and Radio centers.

## 5. What does your course cost?

Prices and terms are given on our Advance Enrollment Blank.

## 6. What are your educational requirements?

All we require is that a fellow have a common school education. While many of our students have a high school education, many others have not. If you have had grade school education, you should be able to master Coyne Training.

## 7. Do I need previous experience?

No! Previous experience is not necessary and many of our students have had little or no previous experience. On the other hand other students had been working in Electricity, or Radio, but they found their knowledge of the field was not broad enough—they had a knowledge of certain branches only—they lacked all around training. They have come to Coyne to get the all around training they needed to prepare for a better job and advancement in the field.

## 8. What are your age limits?

We have students as young as 16 years of age. I have always believed the fellow who decides what he wants to do early in life and follows through while he is young, has a big advantage. Many of our students are much older and some are as old as 40. These fellows have learned they should have gotten a training when they were younger, but when they realized they needed a training they didn't let a few extra years stop them. They CAME TO COYNE AND BECAME TRAINED MEN AND MADE GOOD, even though they had wasted time before. It's not how young or how old you are, but what you should know and can do that counts.

## 9. Do you grant a diploma?

Yes, a diploma is issued to every student upon satisfactory completion of his course.

## 10. Do you always have the same equipment shown in your catalog?

As a rule, we do, however, some changes may occur in the field of Electricity and changes are constantly occurring in the Television-Radio field that we believe would be of more advantage to a student to understand. In this case, we occasionally change a particular section of a Department or improve our course to make Coyne training as up-to-the-minute as possible. However, this is never done unless our Staff feels sure it is going to benefit the student more.

## 11. Can a student take extra time if he needs it?

Yes. While the majority of our students are able to complete the course in the prescribed time, some students may need to repeat the work in a department.

Naturally, it is impossible for us to tell a student in advance if he might need additional time. However, there is no extra tuition charge if a student repeats the work in any of the departments in his course.

## 12. Will I live near the school?

Most of our rooming houses are within walking distance of the school, although in some cases we are obliged to use rooming houses a

little farther from the school. In any case we will always do our best to get you located as near the school as possible. Also, the Y.M.C.A. is within walking distance, and some students live there.

## 13. What should my expenses be?

It is possible for our students to get comfortable living quarters and wholesome meals at a low cost as explained in the literature I am sending you with this catalog. Then, laundry should not run more than a dollar a week or so. All tools are loaned to you at no extra charge.

## 14. Do you have facilities for students with physical disabilities?

Yes! See page 48 for further information regarding our facilities for students with physical disabilities.

## 15. Do you give courses by mail?

NO! ALL COYNE TRAINING is given here in our big training shops in Chicago. We do not teach by mail. Neither do we have you study printed lessons at home for a part of the course and then have you come here for a short period for a smattering of practical work. ALL OF YOUR TRAINING IS GIVEN HERE IN OUR CHICAGO TRAINING SHOPS.

## 16. Do your students go to church?

This, of course, is optional with the student. We do not attempt to influence anyone to go but we feel if you go to church at home, you will want to go here. There are churches of many denominations right in our neighborhood and our Welfare Department will see that you get acquainted in the church you care to attend.

## 17. Can a graduate go into business for himself?

Yes. As a student of Coyne, we give you, in addition to your training, instruction in modern business methods and salesmanship. This part of our training will be of great help to you.

We cover such subjects as how to keep records, selecting a location, how to attract customers, rent and other overhead expense, how much you should charge for different types of jobs, and many other important matters.

Then when you are a Coyne graduate, you can make free use of our Consultation Service. This includes advice with regard to your merchandising problems, as well as technical help on any type of job that may come into your shop where you feel the need of detailed information.

MANY COYNE STUDENTS GO DIRECTLY FROM THE SHOPS OF COYNE TO AN ELECTRICAL OR TELEVISION-RADIO SHOP OF THEIR OWN.



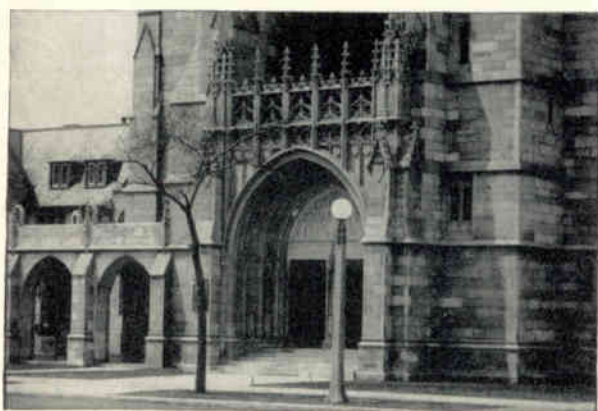
# Everything has been arranged at **COYNE** for Your **COMFORT** and **WELFARE**



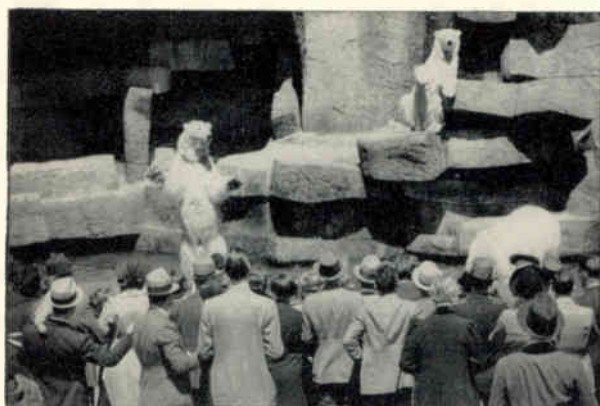
**THE Y. M. C. A.**, just a few blocks away, offers full gymnasium and swimming privileges to Coyne students at special low rate.



**EXPERT HEALTH CARE** is provided for all Coyne students, with a trained nurse in regular attendance. A well equipped clinic is located at the school.



**NEARBY CHURCHES EXTEND A WELCOME.** Whatever your religion, you will find a church of your choice convenient to Coyne. Church attendance is purely voluntary among our students.



**BROOKFIELD ZOO.** You'll enjoy visiting this great zoo where wild animals live in their natural surroundings. Easily reached from Coyne by bus or street cars.

**T**HE 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.

### **MAKING YOU FEEL AT HOME**

Our Welfare Director 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.

You will find that every effort has been made to keep you comfortable during your stay with us. 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.

### **RECREATIONAL FACILITIES**

Then, as you know, Chicago is one of the greatest cities in the world for outdoor sports. In the summer, if you like baseball, you can visit either the White Sox or Cubs' grounds.

There are 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 Sight-seeing Busses, Stockyards, Field Museum and hundreds of other buildings and places of interest afford a fellow hours of good clean recreation at little or no cost without sacrificing any of his school work.

### **LIVING ACCOMMODATIONS**

When you arrive at COYNE and complete your enrollment, we will help you get suitable living accommodations. Student rooms are located in houses that have agreed to reserve rooms for COYNE students and some of them take no one but Coyne students. Then within five minutes' walking distance from the school is the Y.M.C.A. where some students like to stay.

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.

The Y.M.C.A. is just a few blocks from the school and our students may join while here at a special low rate. There are occasional 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.

### **A Letter from a Mother**

"Thanks to Coyne School for all the great success our boys have met with.

May God continue to bless you and your work. I can tell one and all, Coyne is the best school for the young boy to start. If I had other boys, I, as their mother, would advise them to go to Coyne . . .

From the mother of those three boys of whom she feels so proud."

MRS. W. C. EDWARDS, North Carolina.



**BIG LEAGUE BASEBALL.** The famous "Cubs" and the hustling "White Sox" play here all season. You can see all the great stars.



**BATHING BEACHES.** Chicago has 25 miles of beautiful sand beaches along Lake Michigan. Here is Oak St. Beach, on the "Gold Coast."



**BOAT TRIPS.** Lake steamers make daily trips to Michigan or Wisconsin ports and return—an inexpensive, delightful outing.



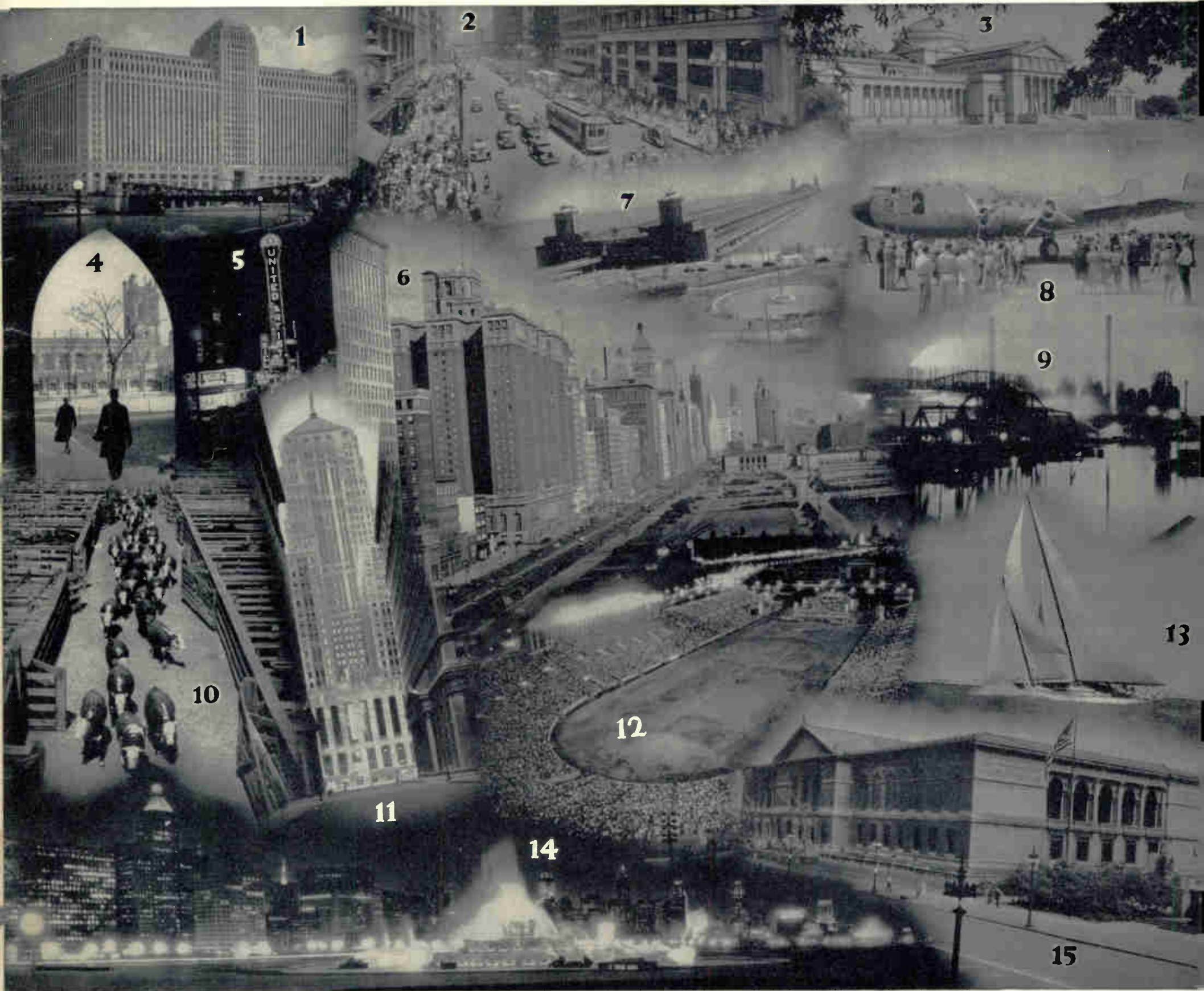
**WINTER SPORTS.** Ice skating is popular on the big park lagoons. If you come during the winter, bring your skates along.



**SCHOOL ENTERTAINMENT:** The above photo shows Mr. Cooke extending a greeting to students and their friends at a typical Coyne party and entertainment.



# CHICAGO.. *the Wonder City*



## **This Composite Photo Shows Some of the Many Attractions You'll See**

**Start at the Upper Left Hand Corner and Take a "Picture Tour" of a Few of the Features That Make Chicago America's Wonder City**

1. The Merchandise Mart, world's largest business building.
2. View of State Street, home of Marshall Field and other great stores.
3. Museum of Science and Industry in Jackson Park, full of fascinating displays where groups of our students are often taken.
4. Looking through an arch toward the Campus at world-famous University of Chicago.
5. Theater signs along Randolph Street, Chicago's noted "Rialto."
6. View north along Michigan Avenue, showing Grant Park and the Lake Front, with the Stevens Hotel, the world's largest, shown at the left.
7. The mile-long Municipal Pier.
8. Interested spectators at the Chicago Municipal Airport.
9. (Below) Night view of the South Chicago steel mills.
10. The Chicago Stock yards, location of the large meat packing industries.
11. The Chicago Board of Trade, heart of the nation's grain industry.
12. A night-time spectacle at Soldier Field, located near the site of the 1933 Chicago World's Fair.
13. Sailboating on Lake Michigan.
14. Magnificent Buckingham Fountain, looking toward the Chicago Skyline at night.
15. The Art Institute, where many of the world's greatest paintings, by renowned artists, are exhibited.





# And Information You Will Want to Know About **COYNE**

## Pertinent Facts About COYNE

COYNE is the oldest school of its kind in America. Founded in 1899, for over half a century we have been training men by the Coyne Practical Method of training.

COYNE is chartered under the laws of the state of Illinois as an Educational Institution Not For Profit and is licensed and registered by the Illinois Department of Registration and Education.

COYNE is a member of the Chicago Chamber of Commerce, The Illinois Chamber of Commerce and the Electric Association.

COYNE is an approved training agency under the Servicemen's Readjustment act of 1944 Public Law No. 346 and Public Law No. 16—78th Congress.

COYNE was called upon to train specialists for the U. S. Army and trained several thousands during World War Two.

COYNE occupies a five story modern, fire-proof building, designed and built for its exclusive use and has floor after floor of equipment and apparatus for students to train with.

COYNE does not teach by correspondence. All our training is given right here in our big Chicago school.

COYNE is located in the heart of the Electrical, Television and Radio industries.

COYNE maintains a nation-wide employment service to give our graduates every possible assistance in getting employment after graduation.

COYNE maintains a welfare department for the purpose of helping students with personal and school problems, personal help in the selection of living quarters and other services.

COYNE maintains a student depository where students may deposit personal funds with the school cashier for safekeeping and withdraw them as needed.

COYNE maintains the full time services of a Registered Nurse who is on duty every school day to provide expert health care for students.

## SPECIAL SCHOOL INFORMATION

**Reports**—Reports of students' progress and conduct will be sent to parents or guardian regularly, if requested.

**Clothing**—You don't need to dress up. Many of our students wear work slacks, overalls, or an old pair of trousers and a work shirt while they are getting their training.

**Money**—We supply students with deposit privileges at the office. Money deposited with the School Cashier may be drawn during school banking hours. 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 Post Office money order.

**School Hours**—The school is in session every day of the year except Saturdays, Sundays and Legal Holidays. The school week is Monday to Friday inclusive and school is in session from approximately 8:00 A.M. until 4:00 P.M. Exact school hours may vary a little in different departments.

## COYNE HAS TRAINED MANY MEN WITH PHYSICAL DISABILITIES

For many years COYNE has been training men and young men with physical disabilities, many of whom got their training at no cost to them for tuition and subsistence. **IF YOU HAVE A PHYSICAL DISABILITY** of any kind **WRITE US AT ONCE**, giving details and we may be able to give you valuable suggestions and help in getting **YOUR** training here in the shops of Coyne.

We have successfully trained students with disabilities from many causes, some of which are listed here:

|                       |             |
|-----------------------|-------------|
| Infantile Paralysis   | Brace Cases |
| Arrested Tuberculosis | Diabetes    |
| Impaired Vision       | Minus Hand  |
| Minus Some Fingers    | Minus Leg   |
| Impaired Hearing      | Loss of Eye |
| Curvature of Spine    | Back Injury |
| Osteomyelitis         | Cardiac     |
| Stiff Leg or Hip      | Minus Arm   |

**WE ARE MIGHTY PROUD OF THE ACHIEVEMENTS OF THESE MEN** who refused to believe their disability was a handicap and have proven it was not, by their accomplishments.

**STUDENTS WITH PHYSICAL DISABILITIES ARE NOT SEGREGATED** because we have found that working side by side with other students is an encouraging experience for them.

**ELEVATOR** service is provided if needed and stools are furnished those unable to stand for any length of time.

So, if you have a physical disability of any kind, be sure to write us at once, giving us all details and we'll extend every possible help to you in getting Coyne training.

## COYNE Was one of the First Schools CHOSEN BY THE U. S. ARMY TO TRAIN TECHNICIANS DURING WORLD WAR II

When the Second World War started, Coyne was one of the first schools called upon to train technicians for the Armed Forces. Our years of experience with the Coyne famous "Practical Training" method proved to be of great value in this emergency and we were able to train several thousand specialists for the Signal Corps, Engineers, Anti-Aircraft and Army Air Forces.

This photo shown below was taken of a Military Training Unit while attending our school.





"... THROUGH THE DOORS OF COYNE  
INTO THE OPPORTUNITY FIELDS OF  
ELECTRICITY AND TELEVISION-RADIO  
PASS SCORES OF TRAINED MEN  
EACH YEAR . . ."



## Decide *NOW*... for That Future You've Always Wanted!

**W**E HAVE come to the end of this book. But let it be just the BEGINNING of a lifetime of success for you!

Right now you are probably saying to yourself: "Coyne Training is exactly what I need! I know I can't get one of those better jobs in Electricity or Television-Radio without practical shop training. And where else can I find a school with the outstanding reputation of Coyne, which has been helping men get ahead for over half a century? That Coyne Practical Training method surely looks like the quickest, easiest, surest way to prepare for my future. Yes, I'm really SOLD on Coyne!"

Thousands of men and young men have had those same thoughts after reading this book. They have become enthusiastic about Coyne Training—have seen what it would mean to themselves to be Coyne graduates.

Some of these fellows acted at once. They

didn't let lack of experience or lack of money hold them back. No sir! They and their folks talked it over, and ACTED. These "do-ers" enrolled at Coyne, got their training, and were out in the field working on real jobs with a real future—while other fellows were still putting it off.

So I say to you: It isn't how ambitious you are, or how much you want Coyne Training. It's what you DO about it that counts!

The decision is up to you. The training, personal help and services that brought more money and greater opportunities to men just like yourself, are now offered to YOU. Our entire staff is here to help you. Our vast layout of Electrical, Television, Radio, F.M. and Refrigeration equipment is ready for you to work with.

A hearty welcome awaits you at the Great Shops of Coyne in Chicago—your gateway to success in Electricity or Television-Radio! Decide to send your Advance Enrollment Application today!

*Bee Cook*

President

**COYNE ELECTRICAL AND TELEVISION-RADIO SCHOOL**

*Chartered As An Educational Institution Not For Profit*

**500 S. PAULINA STREET . . . CHICAGO 12, ILLINOIS**

**TRAINING MEN AND YOUNG MEN SINCE 1899**







# COYNE STARTING DATE SCHEDULE



Our Starting Dates are arranged to eliminate long waiting periods for students to get started.

Students can start every sixth Monday. Our Starting Dates for all Courses for a period of six months or so, are shown below.

|                                 |                                 |
|---------------------------------|---------------------------------|
| <b>Mon. ....Apr. 7th, 1952</b>  | <b>Mon. ....Aug. 11th, 1952</b> |
| <b>Mon. ....May 19th, 1952</b>  | <b>Mon. ....Sep. 22nd, 1952</b> |
| <b>Mon. ....June 30th, 1952</b> | <b>Mon. ....Nov. 3rd, 1952</b>  |

THESE STARTING DATES CONTINUE AT INTERVALS OF 6 WEEKS

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**When a starting date has been assigned to you, arrange to be here in time to be enrolled and ready to start school on the morning of your starting date.**

During the week the School Office is open from 8:00 A.M. until 9:00 P.M. on MONDAY, WEDNESDAY and THURSDAY and from 8:00 A.M. until 5:30 P.M. on TUESDAY and FRIDAY.

On the SATURDAY and SUNDAY BEFORE a starting date the School Office is open from 8:00 A.M. to 4:00 P.M.

So, after a starting date has been arranged, you can come in any time during the week or on SATURDAY or even as late as SUNDAY before 4 o'clock P.M. Central Standard Time, on the weekend BEFORE THE STARTING DATE ARRANGED FOR YOU, and we can get everything ready for you to start school on Monday morning.

**S. C. NARLAND, Vice-Pres. and Gen. Mgr.**

## COYNE SCHOOL

500 South Paulina Street  
P-ER-44

Chicago 12, Illinois

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