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Harold L. Ickes, *Secretary*  
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J. W. STUDEBAKER, *Commissioner*

PRIVATE PROPRIETARY  
AND ENDOWED SCHOOLS  
GIVING TRADE  
AND INDUSTRIAL COURSES

By

MARIS M. PROFFITT  
*Educational Consultant and Specialist in Guidance  
and Industrial Education  
Office of Education*



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# PRIVATE PROPRIETARY AND ENDOWED SCHOOLS GIVING TRADE AND INDUSTRIAL COURSES

WITH AN APPENDED LIST OF COLLEGIATE SCHOOLS OF  
TECHNOLOGY

**T**HE INFORMATION herein contained was secured with the help of State departments of education in locating the schools, and then through direct correspondence with the schools themselves or from catalogs or supplementary material furnished by them. Statements concerning those schools that were listed in the earlier edition of this bulletin were submitted to the executive officers of the respective schools to be checked and brought up to date. Some schools which perhaps should have been included have been omitted by reason of lack of direct information or failure to respond to inquiries. The list is in the nature of a directory and carries no endorsement of any school by the Office of Education. The schools included range from those of elementary grade giving a few fundamental industrial courses, to schools of college grade that in addition to their degree-granting courses also offer some courses of less than college grade. Such items as tuition fees, enrollment, and number of instructors are liable to variation from year to year.

## PART I: SCHOOLS ARRANGED ALPHABETICALLY ACCORDING TO STATES

### ALABAMA

*Birmingham—St. Mark's Normal and Industrial School.*—A private boarding and day school for colored girls. Boys and men are admitted as day pupils. The school receives financial aid from the American Church Institute for Negroes and the diocese of the Protestant Episcopal Church of Alabama. Enrollment, about 200; instructors, 10; length of school year, 36 weeks. Students do the janitor work.



Cooking is taught in all grades from seventh through twelfth, one 90-minute period weekly, 6 years; sewing and laundering, one 90-minute period weekly, 7 years; manual training for boys, carpentry, and blacksmithing, one 90-minute period weekly, 6 years. School extension work is carried on in the neighborhood for the purpose of encouraging home gardening and a better sanitary condition of the home. Night school for adults in high-school work is carried on at the school, supervised by the board of education of the city of Birmingham and financed by Government funds.

*Brewton—Downing-Shofner Institute for Girls.*—A private boarding and day school, national in scope, for white girls. The school owns 200 acres of land. Enrollment, about 125; instructors, 7. The school admits pupils from the first grade and takes them through senior high school, giving the course required by the State. Each pupil is expected to work as much as one-half hour a day in the kitchen and dining room. Some scholarships and loans are available. Charge for tuition and room and board, \$200 per school year of 9 months; for day pupils, tuition fee for 9 months, \$50. Courses are offered in sewing, cooking, and home economics. Not more than twenty-five 40-minute periods per week for 36 weeks are given in industrial work. Diploma granted. Summer session, 3 months.

*Calhoun—Calhoun Colored School.*—A private day and boarding elementary and secondary school for colored boys and girls. The school plant is valued at \$185,000 and has an endowment of \$60,000. Children may enter the day school at the age of 5. For boarding pupils, completion of the fifth grade is required for entrance. Training for boys is offered in agriculture, blacksmithing, carpentry, and cobbling; for girls: Domestic science, crafts, laundering, and sewing. Half-day classes in certain grades give opportunity for needy pupils to earn the greater part of their expenses through work in the various departments.

*Camp Hill—The Southern Industrial Institute.*—A private nonsectarian boarding and day school for white boys and girls over 16 years of age. The school owns a farm of 400 acres and derives income from benefactions and bequests. Enrollment, 125; instructors, 14. A limited number of free



scholarships are available and a revolving loan fund is provided for first-year students who are without funds. Beginning and elementary classes are held in all the lower grades. The high school is accredited. Expenses: Boys' industrial scholarship, \$125 a year, 4 days each week in school and 2 days a week at work; \$150 a year, 5 days each week in school and 1 day's work a week; academic scholarship, \$200 a year, no work. Girls work 3 hours each day and one-half day on Saturday.

*Huntsville—Oakwood Junior College.*—A private boarding school for Negroes conducted by Seventh-Day Adventists to supply gospel workers for colored people and to give a general education. The school owns 900 acres of land, conducts a practice school for elementary teacher training, offers 14th grade terminal courses in theology, home economics, prenursing, normal. Offers courses in music, carpentry, agriculture, and printing. Has 17 instructors, with a student capacity of 200. Length of school year, 36 weeks. Estimated total monthly expenses, \$21.

*Marion—Lincoln Normal and Industrial School.*—A private boarding and day school for Negro boys and girls of Alabama and the Southern States, conducted under the auspices of the Congregational Church. Pupils are taken from third grade through high school. Cooking, sewing, and woodworking are taught.

*Tuskegee—Tuskegee Normal and Industrial Institute.*—A private boarding institute for Negro boys and girls from any part of the United States and foreign countries. The institute owns a farm of 1,850 acres and has an endowment of \$7,552,713.21, from which is derived an annual income of \$288,458.20. The physical valuation of the plant is \$2,973,849.79. Other resources are: State aid, \$2,984.09; Federal aid, \$4,860; Smith-Hughes work, \$5,147.07. Entrance requirements to the industrial school, completion of the eighth grade; college, 15 units of high-school work. All students are required to do some industrial work and complete training for a specific vocation for graduation. Charge for board, \$20 per month. Military training is given all male students over 14 years of age. Teacher-training courses are offered in industrial arts, home economics, and agriculture.

The summer school is conducted under the joint auspices of the Alabama State Board of Education and the Tuskegee Institute. Length of school year, 36 weeks. Three-year day trade courses, alternate days in class and shop, are offered in 23 trades for boys and 7 trades for girls; 9 courses are offered in vocational agriculture. The following subjects are taught: Architectural drawing, automobile mechanics, applied electricity, blacksmithing, brick masonry, cabinet-making, carpentry, carpentry repairs, carriage and automobile trimming, linotype operating, machine-shop practice, painting, plastering, photography, plumbing, printing, sheet-metal work, shoemaking, steam plant operation, steam-fitting, tailoring, wheelwrighting, and woodturning; for girls: Domestic science, dressmaking, advanced dressmaking, laundering, home crafts, nursing, and plain sewing.

#### CALIFORNIA

The following list of schools was furnished by the California State Department of Education with the statement, "We have no definite information concerning the standing or rating of a great many of these schools."

*Alhambra:*

Western Institute of Technology, Inc., 620 East Valley Boulevard.

*Fresno:*

Barnes Beauty College, 2325 Fresno Street.

Chicago College of Beauty, Inc.

Moler Barber College, 1832 Kern Street.

*Los Angeles:*

American Barber School, 400 East Fifth Street.

Art Center School, 2544 West Seventh Street.

Charette School of Costume Design, 678 South Lafayette Park Place.

Chouinard School of Art, 741 South Grandview.

Curtiss-Wright Technical Institute of Aeronautics, Glendale.

Dellar Drive School of Beauty Culture, 636 South Broadway.

Filbin Beauty College, 4587 Whittier Boulevard.

Florentine Hairdressing College, 322 South Broadway.

Hemphill Diesel Engineering Schools, 2121 San Fernando Road.

Henrietta's School of Beauty Culture, 4214 South Central Avenue.

Hollywood Academy of Beauty Culture, 6636 Hollywood Boulevard.



*Los Angeles*—Continued.

Instituto de Radio, 1031 South Broadway.  
Jean Academy of Beauty Culture, 747 South Hill Street.  
Leader College of Beauty Culture, 525 South Broadway.  
Lipons School of Costume Design, 3142 Wilshire Boulevard.  
Los Angeles College of Architecture and Engineering, 2256 Venice Boulevard.  
Marinella System National School of Cosmeticians, 2404 West Seventh Street.  
Moler Barber College, 221 South Main Street.  
National Automotive and Electrical School, 4006 South Figueroa.  
National School of Instruction in Apartment House Management, 3025 West Seventh Street.  
National Television Talking Picture and Radio School, 4006 South Figueroa.  
Otis Art Institute, 2401 Wilshire Boulevard.  
Paramount College of Beauty Culture, 745 South Broadway.  
Polytechnic School of Beauty Culture, 755 South Broadway.  
Radio Institute of California, 1117 Venice Boulevard.  
Radio School of Los Angeles, 715 South Hope Street.  
Ruth's Beauty School, 4113 South Central Avenue.  
School of Engraving at Los Angeles, 921 West Sixth Street.  
Smith Dental Institute, 747 South Hill Street.  
Sullivan's Beauty College, 551 South Broadway.  
Vocational Training Institute, 1031 South Broadway.  
Warren School of Aeronautics, 3417 Crenshaw Boulevard.  
Wolfe School of Costume Design, 724 South Flower Street.  
Woodbury College, 727 South Figueroa.

*Oakland:*

Boeing School of Aeronautics, Oakland Municipal Airport, Oakland.  
R. P. Bowman (School of Aeronautics), San Francisco Bay Airdrome, Alameda.  
California School of Arts and Crafts, Broadway at College Avenue.  
Daugherty's School of Hairdressing, 2091 Broadway.  
Dolores Premier School of Beauty Culture, 477 Fifteenth Street.  
East Bay School of Beauty Culture, 532 Sixteenth Street.  
Fillmore School of Aeronautics, Oakland Municipal Airport, Hangar No. 1-A, Oakland.  
Fox-Morgan School of Art, 339 Fifteenth Street.  
Hargrove Air Service Flying School, San Francisco Bay Airdrome, Alameda.  
Kurtz Dressmaking School, 3661 Grand Avenue.  
Lucille School of Fashion and Costume Art, 2252 Lakeshore Avenue.  
Moler Barber College, 412 Ninth Street.



*Oakland*—Continued.

Moreau Flying Service, Oakland Municipal Airport, Hangar No. 4, Oakland.

Polytechnic College of Engineering, Thirteenth and Madison Streets.

*Riverside:*

Riverside School of Beauty Culture, 3820 Orange Street.

*Sacramento:*

Moler Barber College, 311 J Street.

Upthegrove School of Beauty Culture, 806 K Street.

*San Diego:*

Ryan School of Aeronautics, Ltd., Lindbergh Field.

San Diego Academy of Fine Arts, Balboa Park.

Speer Flying School, 3300 Barnett Avenue.

Tyce School of Aviation, 850 G Street, Chula Vista.

*San Francisco:*

Academie of Advertising Art, 521 Grant Avenue.

Art and Style Studio, 2845 Filmore Street.

California School of Beauty Culture, 908 Market Street.

California School of Design, 526 Powell Street.

California School of Fine Arts, Chestnut and Jones Streets.

California School of Mechanical Arts, 2250 Seventeenth Street.

California School of Welding, 1834 Howard Street.

Diesel Power Engineering Schools, 3320 Twentieth Street.

Dolores Premier School of Beauty Culture, 883 Market Street.

Don Lux Academy of Hairdressing and Beauty Culture, 150 Posell Street.

Fashion Art School of Costume Design, 1290 Sutter Street.

Healds' Automotive School, 1101 Sutter Street.

Hiles Watchmaking and Engraving School, 5330 Mission Street.

Livingstone Advertising Art School, 406 Geary Street.

McDowell School of Fashion, 450 Geary Street.

Modern Barber Colleges, Inc., Branch No. 2, 59 Sixth Street.

Moler Barber College, 161 Fourth Street.

Pacific Radio School, Call Building.

Pacific School of Mechanical Dentistry, 1159 Market Street.

Pacific School of Photography, de Young Building.

Pearce School of Beauty Culture, 459 Geary Street.

Premier School of Hairdressing, 883 Market Street.

Rudolph Schaeffer School of Design, 136 St. Anne Street.

Western College of Radio, 735 Larkin Street.

Western School of Beauty Culture, 2595 Mission Street.

*San Jose:*

Annette Beauty School, 29 West San Antonio.

Don Lux Beauty Culture, Twoby Building.

*Stockton:*

Bluebird-Rudemar Academy, 420 East Lindsay Street.

Information given concerning the following California schools was obtained from the schools themselves through correspondence or by reference to their printed catalogs.

*Alhambra—Western Institute of Technology.*—Theoretical training by means of extension courses precedes residential training. The school is not and does not seek to be accredited, as the type of training does not prepare for higher education but deals only with practical phases of engineering and not with any type of research. Tuition fees for the extension training are \$150, and for residential training \$15 a month. The mechanics course and radio operators course extend over a 9-month residential period and the aeronautical engineering course over 18 months. Ten instructors.

*Glendale—Curtiss-Wright Technical Institute of Aeronautics, Grand Central Air Terminal.*—Plant valued at \$1,000,000; 150 students; 10 instructors. Courses: Master mechanics, 1,600 hours, \$600; aeronautical engineering, 2,000 hours, \$750; transport flying course, 9 months, \$2,100; limited commercial flying course, 4½ months, \$410; private pilot's course, 1 to 2 months, \$385. Also a home-study course in aeronautical drafting which requires 6 months to complete, \$125; including complete set of all necessary drawing instruments.

*Los Angeles—The Art Center School, 2544 West Seventh Street.*—A nonprofit organization conducting day and night classes of secondary and college grade for a limited number of students who show potential ability and seriousness of purpose. Instruction is given individually by 24 instructors. Average time for training to complete professional efficiency is 3 years. Tuition, \$30 per month, or \$225 for a school year of 9½ months. Courses include: Advertising design, advertising illustration, poster design, type design, reproduction processes, lettering, industrial design, interior design, fashion illustration, costume rendering, architectural rendering, perspective, drawing logic, still life drawing, figure drawing, quick sketch, anatomy, composition, color and design, color application, drawing for illustration, book and story illustration, portrait painting, landscape, photography including composition and lighting, portraiture, advertising photography, industrial photography, retouching, finishing,



chemistry and optics, outdoor photography, miniature technique, figure composition.

This school operates under a California State charter. The teaching personnel is composed of persons who are practicing the special line of work they are teaching. The school is housed in a series of connected 1-story studios, each of which is well heated, lighted, and equipped for the special instruction given.

*Los Angeles—Lipson's School of Costume Designing*, 3142 Wilshire Boulevard.—Courses in costume designing, commercial art, life drawing, millinery, and dressmaking, in both day and evening classes. From 100 to 125 students; 8 instructors. Tuition, \$25 to \$500, depending on course.

*Los Angeles—National Radio, Electrical and Automotipe School*, 4006 South Figueroa Street.—A private day and evening school open all the year for men 16 years of age and over. No educational entrance requirements. Practical trade instruction given in all courses. Tuition fees, \$50 up, according to course. Courses offered include auto mechanics, auto electricity, general electricity, high-speed Diesel engines, radio, television, broadcasting, talking pictures. Special courses by extension in both English and Spanish languages. Post-graduate privileges on all courses. Time of courses depends on subjects taken, ranging from 1 month to 1 year.

*Los Angeles—Radio School of Los Angeles*, Y. M. C. A. Building, 715 South Hope Street.—The school is privately owned and operated. It specializes in training radio operators, both broadcasting, and marine. Minimum instruction period 12 months; 6-months' study of the fundamental theory underlying radio communication, the remainder of the training period being used to train the student in the practical phases of commercial radio work. Tuition is paid in advance: Day school, \$175; evening school, \$160. Three instructors. Enrollment, about 60. The school offers a correspondence course in radio engineering. Enrollment, 60 to 90; instructors, 3.

*Los Angeles—Warren School of Aeronautics*, 236 West Eighteenth Street at Olive.—School of aviation (ground instruction). Courses: Engine and airplane mechanics, aero-

nautical engineering, and design. Tuition, \$350. Enrollment, 150; instructors, 7. Day and evening classes. Also a correspondence course.

*Los Angeles—Wolfe School of Costume Designing*, 724 South Flower Street.—Courses: Creation of fashion, costume designing, fashion sketching, free-hand cutting, model making, pattern making, dressmaking, draping, color harmony, grading, buying, styling, textiles, economics of design and production, stage and cinema designing. Enrollment, 105; instructors, 6. Tuition fees, approximately \$175, which includes all supplies.

*Oakland—Boeing School of Aeronautics* (a division of United Air Lines, Inc.), Oakland Airport.—The school year consists of 4 quarters of 12 weeks each. Courses: Amateur pilot, private pilot, limited commercial pilot, transport pilot, airline pilot, special airline pilot, airline pilot and operations, airline mechanic, airline operations, airline technician. Entrance requirements to the airline technician course include graduation from an accredited engineering college. Tuition, \$435 to \$5,800, depending on course. Enrollment, 110; instructors, 20. Home study courses for individuals already engaged in the aviation industry. No evening classes.

*Oakland—California School of Arts and Crafts*, Broadway at College.—A State-accredited institution. Gives both degree and nondegree courses. Complete 3- and 4-year courses in fine arts (portraiture, landscape and mural painting, sculpture); applied arts (advertising art, illustration, costume design, interior decoration, the crafts); art education (State-accredited course for the training of high-school teachers of the arts and crafts). Special classes on Saturday morning for children of grade and high-school age. Enrollment, 397; instructors, 25. Tuition: \$200 per school year (36 weeks) for nondegree courses; \$250 for degree courses; \$36 for evening school.

*Oakland—East Bay School of Beauty Culture*, 532 Sixteenth Street.—Day school courses in hairdressing, permanent waving, manicuring, and electrology. Entrance requirements: Education equivalent to ninth grade; must be 17½ years of age. Tuition: \$25 to \$129, depending on course.



*Oakland—Polytechnic College of Engineering*, 1310 Madison Street.—A private coeducational school open all the year. No age limit. High-school or equivalent education is required for entrance to technical courses. Two-year, or 24 months' intensified, practical courses are offered in civil, electrical, mechanical, mining, architectural, aeronautical, and structural engineering. Tuition for 2 years, including laboratory fees, \$500; degrees granted. Special 1-year, 12 months' nondegree courses in which no entrance examinations are required are offered in auto mechanics, machine shop, electricity, surveying, mechanical drafting, architectural drafting, electrical drafting, and building estimating; tuition fee, \$275. Six months' course in automobile battery, automobile mechanics, airplane mechanics, and riggers, \$175; 3 months' battery shop course, \$100. A special course in Diesel engines, 6 months, \$200.

*San Francisco—The California School of Mechanical Arts* (commonly called the Lick School) and the *Wilmerding School of Industrial Arts*, Sixteenth and Utah Streets.—These two schools are combined with the Lux School in a tripartite agreement under one head, but, are maintained under separate endowments, the former having an endowment of \$600,000 and the latter \$900,000. The schools have a dormitory for boys. The Wilmerding School is for boys only. Students are enrolled concurrently in both schools. The "lower division" comprises grades 10, 11, and 12. The upper or junior college division comprises grades 13 and 14. Boys in the lower division may pursue apprentice courses in various lines of mechanical work; or they may choose from a number of technical courses, including machinery and architectural drafting, industrial chemistry, aeromechanics, radio; or they may take a college-preparatory course for engineering in the universities. Similar, but more advanced, courses are offered in the upper division, but, nevertheless, based on high-school mathematics—algebra, geometry, and trigonometry. No attempt is made to duplicate the work of the freshman and sophomore classes of the university.

*San Francisco—Cogswell Polytechnical College*, Twenty-sixth and Folsom Streets. A private school of junior-college grade, but open to men and women over 18 years of age, not graduates of high schools, who can profit by the courses offered. Endowment, \$1,890,696.99. No tuition fees are charged; practice material and sundry expenses amount to approximately \$20 and \$25 each semester for women and men, respectively. Academic and commercial, as well as technical courses, are offered. Technical courses for women include costume design, interior decoration, show-card writing, and poster work; for men: Technical physics, theoretical mechanics, strength of materials, graphics, direct current and alternating current, electrical theory, electrical drawing, electrical design, machine drawing, machine design, structural drawing with plan study, blueprint reading and estimating, surveying, and a study of how to use engineering information found in tables, handbooks, equipment catalogs, etc. Shop courses are available in woodwork and pattern making, machine shop, electrical shop, and supplementary work as needed in forge, foundry, sheet metal, brazing, annealing, tempering, and practice with the acetylene torch. Courses in organization, operation, and management of wood-working and metal-working shops are offered.

*San Francisco—Diesel Power Engineering Schools*, 3320 Twentieth Street. (Also 524 South Tenth Street, Minneapolis, Minn.)—Complete training in Diesel engineering. Cost of course, \$250—payable \$100 upon entering the school and \$50 per month until full amount is paid. Approximate time for course 6 months—but no time limit. Evening course, \$200—payable \$10 upon entering and \$5 per week thereafter until the full amount has been paid. Approximate time for course 10 to 12 months.

*San Francisco—Fashion Art School*, 1290 Sutter Street.—Courses for professional and laymen in millinery making and design, fashion illustration, styling and merchandising, professional costume design, promotional training, commercial art, life drawing, interior decoration. Tuition, \$65 to \$350, according to course.



*San Francisco—Heald Automotive and Diesel School*, 1101 Sutter Street.—A day and night technical and trade school open 52 weeks of the year, offering courses in automobile mechanics and electricity and Diesel engineering. Courses from 3 months to 1 year in length.

*San Francisco—Heald Engineering College*, Van Ness Avenue at Post Street.—A day-and-night engineering college authorized to grant degrees in engineering. Open 50 weeks of the year. Offers courses in electrical, civil, mechanical, structural, highway, architectural, Diesel, and radio engineering, in 2 years of 12 months each, day attendance. In night courses the time for graduation is practically doubled. Practical short courses, for which diplomas are granted and which require from 6 to 12 months, in general surveying, architecture, mathematics, electricity, heating and ventilating, drafting, estimating, construction, Diesel, and radio are also given. Tuition fee, \$500 for 2 years. For shorter courses, tuition fees are charged accordingly.

*San Francisco—Hiles Watchmaking and Engraving School*, 5330 Mission Street.—A private school open all the year, offering courses in watchmaking, 18 months; jewelry making, 12 months.

*San Francisco—The Lux Technical Institute*, for girls and young women, Potrero Avenue and Seventeenth Street.—Endowment, \$1,000,000. This school is combined with the California School of Mechanical Arts and the Wilmerding School of Industrial Arts in a tripartite agreement under one head. There is no charge for tuition. It is organized in two divisions: A lower division, comprising grades 10, 11, and 12 for junior high school graduates; and a junior college division for senior high school graduates. Girls in the lower division may prepare for the more advanced courses given in the junior college division of the school or for entrance to a university. Five groups of technical junior college courses are offered, as follows: (1) Textiles; (2) foods; (3) the health group; (4) art branches; (5) merchandising and store service. Each group comprises several different but related technical courses leading to occupations suitable and desirable for women.

## COLORADO

*Denver—Moler System of Colleges*<sup>1</sup> (barbering), 1229 Seventeenth Street.—A private day school open all the year for white boys and girls over 16 years of age. Educational requirements, completion of eighth grade. Tuition fee for complete barber course, \$100; tools and textbooks, \$35; tuition fee for complete beauty course, \$100; tools, etc., \$25. Eight hours a day practice.

## DELAWARE

*Clayton—St. Joseph's Industrial School for Colored Boys.*—A private Roman Catholic boarding school for Negro boys over 12 years of age. Enrollment, 100. The school is supported from the proceeds of a 400-acre farm, charitable contributions, and subscriptions to a small religious magazine. If able, the boys pay \$5 a month to cover expenses of school books, working clothes and shoes, repairing of clothes and shoes, athletic goods, the use of musical instruments, etc. Length of training, 3 to 5 years. The boys work on the farm, in the dairy, and in the different shops 4 hours a day and study 4 hours a day, 5½ days a week for 52 weeks of the year. Courses are given in printing, carpentry, tailoring, shoemaking, general farming, dairy work, poultry work, domestic science, interior and exterior painting. Some military training is given.

## DISTRICT OF COLUMBIA

*Takoma Park—Bliss Electrical School.*—A private special technical boarding school for white boys over 18 years of age. A common-school education, including a good working knowledge of arithmetic, is required for entrance; high-school graduation preferred. The school conducts but one course,

<sup>1</sup> The Moler System of Colleges consists of schools located at the following addresses: 1229 Seventeenth Street, Denver, Colo.; 43½ Peachtree Street, Atlanta, Ga.; 59 East Monroe Street, Chicago, Ill.; 1106 Canal Street, New Orleans, La.; 559 Michigan Avenue, Detroit, Mich.; 215 Nicollet Avenue, Minneapolis, Minn.; 721 Main Street, Kansas City, Mo.; 810 North Sixth Street, St. Louis, Mo.; 1302 Douglas Street, Omaha, Nebr.; 139 East Twenty-third Street, New York, N. Y.; 418 Front Street, Fargo, N. Dak.; 111 West Fifth Street, Cincinnati, Ohio; 748 Prospect Street, Cleveland, Ohio; 227 Southwest Third Avenue, Portland, Ore.; 81 South Second Street, Memphis, Tenn.; 1713 Commerce Street, Dallas, Tex.; 712 Franklin Avenue, Houston, Tex.; 839 North Water Street, Milwaukee, Wis.



a condensed course in theoretical and practical electrical engineering, designed to be completed in 1 college year, beginning the last week in September and closing the first week in June. Charge for tuition, including room and board, \$900 a year; books, tools, and other supplies, including graduation fee, \$60. It costs the student in round figures, including personal expenses, about \$1,100 to complete the course. Five 55-minute periods weekly each in mechanical drawing, mathematics, lectures, reviews, and electrical recitations are given for 32 weeks of the year; machine department, wiring, and testing departments, ten 55-minute periods weekly for 10 weeks. During the year 12 electrical examinations are held. The school work is designed to occupy the student's entire time during the day. It also requires 3 or 4 hours each evening for study. In a limited number of cases the school extends to certain worthy boarding students, who would otherwise be unable to take the course, an opportunity to work out a total of not more than \$200 in general utility work about the institution. A special night course in theoretical and applied electricity has been added for those who cannot avail themselves of the regular daytime course. The price of this is \$160; books, tools, and supplies, \$7.95.

*Washington—Columbia Technical Institute, Inc., 1319 F Street NW.*—A private day and evening school, open all the year. Coeducational. Curriculum consists of 4-year courses in mechanical, civil, architectural, electrical, and aeronautical engineering; 23 1-year-unit courses in special branches of engineering; 13 courses in all branches of drafting; and 12 special technical and trade courses in aviation, radio, and commercial art. No special training or education required for entrance, since all courses include necessary mathematics and other foundation subjects. Enrollment about 600. Curriculum extended in 1934-35 by addition of 14 courses with increase in laboratory and shop facilities. Tuition varies from \$48 to \$162 per year, according to course and schedule of attendance. Tuition fee includes all textbooks and other lesson material, and there are no registration or entrance fees. Practically all courses available for home study through extension department. School issues certificate or diploma for satisfactory completion of courses.

*Washington—Lewis Hotel Training Schools (Inc.)*, Twenty-third and Washington Circle.—This school offers both home study and resident courses. The resident classes of the school are in hotel, restaurant, and institutional field management and consist of 4 months' intensive training in the duties of every one of the employees of the modern hotel, apartment hotel, steamship, club, restaurant, school, college, hospital, camp, and institution. They are formed four times a year, in September, October, January, and February.

*Washington—Livingstone Academy*, 1138 Connecticut Avenue NW.—A private coeducational boarding, day, and evening school, offering 1- and 2-year day courses, 10 weekly 2-hour periods in commercial art, interior decorating, and costume designing. Three-year day course, 10 weekly 2-hour periods in mechanical drafting; 1-year day course, 10 weekly 2-hour periods in advertising and applied arts. Evening courses: One-year and 2-year courses in commercial art, interior decorating, and costume designing, 5 weekly 2-hour periods. Three-year course in mechanical drafting, 5 weekly 2-hour periods. One-year course in advertising and in applied arts, 5 weekly 2-hour periods. Length of school year, 36 weeks; tuition fee, \$150 a year; room and board, \$450.

#### FLORIDA

*Jacksonville—Boylan-Haven School*.—A private boarding and-day school, grades 7 to 12, for Negro girls from Florida and the South, supported by the Woman's Home Missionary Society of the Methodist Episcopal Church, special gifts, and scholarships. Enrollment, more than 100; length of school year, 36 weeks; board and tuition fee, \$12 a month; day tuition, \$2.50 to \$2.75 per month. Each girl is required to give 1 hour a day to industrial work. The course of study prescribed by the State is followed. Special emphasis is given to music. Five 45-minute periods weekly are given in home economics in the junior high school and seven 45-minute periods weekly in the senior high school.

*Miami, Tampa—Florida Radio Schools*.—A private school conducting day and night classes for white students. Courses include all branches of practical electricity as well as radio. Tuition: Tampa Branch, day classes, 9 a. m. to 1 p. m.



daily except Saturday and Sunday, \$15 per month; night classes, 6:30 to 10:30 p. m. Monday, Wednesday, Friday, \$10 per month. Miami Branch, day classes 9 a. m. to 1 p. m. daily except Saturday and Sunday, \$20 per month; night classes 6:30 to 10:30 p. m., Monday, Wednesday, Friday, \$14 per month. Average length of training about 8 months. Two instructors at each branch. Accredited by the Florida State Board for Vocational Education for training civilian rehabilitation cases.

### GEORGIA

*Atlanta—The Moler System of Colleges,*<sup>1</sup> 43½ Peachtree Street.—For barbers.

*McIntosh—Dorchester Academy.*—A private boarding school for Negro boys and girls over 14 years of age, beginning with the first grade. The school receives \$15,000 annually from the American Missionary Association of the Congregational Church, and owns a farm of 120 acres. Required work about the farm, 1½ hours daily from each student. Military drill, 15 minutes daily. Courses are offered in sewing, cooking, manual training, and agriculture 2 weekly 45-minute periods, 36 weeks per year.

*Mount Berry—Mount Berry School for Boys, Martha Berry School for Girls, and Berry College,* the last established in 1928.—A private nonsectarian Protestant boarding institution open to white boys and girls over 15 years of age from the rural and mountain districts of the Southern States for the purpose of training them for country life. The school owns 2,000 acres of cultivated land and 30,000 acres in forest, and is supported largely by private donations, with no State or county aid. Tuition fee and board, \$150 a year; books, \$15; clothing, \$50. Two days a week are required of students in work about the institution. Opportunities are offered for self-help for a limited number of students. The course of study extends from the first grade through college, covering 15 years. Twelve weekly 50-minute periods, 32 weeks of the year, are given in mechanical drawing, 2 years; forging, carpentry, cabinetmaking, and farm mechanics, 1 year each. Evening courses in English,

<sup>1</sup> See footnote, page 13, for complete list of the Moler System of Colleges.

algebra, commerce, industrial arts, and geometry are offered boys who are working their way through. Teacher-training courses in industrial arts are also offered.

*Mount Zion—Mount Zion Seminary.*—A preparatory school for white boys and girls, under the auspices of the Methodist Episcopal Church. College entrance and vocational courses given. Accredited by the State.

## IDAHO

*Weiser—Intermountain Institute.*—A private coeducational high school under the auspices of the Congregational Church. The school owns a farm of 2,000 acres. Entrance requirement, completion of eighth grade. Tuition fee, \$40 each semester; board and room, \$110. Available work at the rate of 25 cents an hour will be given such students as cannot afford to pay their way. Work is not guaranteed to anyone. Courses are offered in manual training, ten 45-minute periods, 38 weeks a year. One year required, 3 years elective.

## ILLINOIS

*Chicago—The Joseph G. Branch Institute of Engineering,* 3917 South Parkway Boulevard.—Instruction is confined almost entirely to the Latin countries, complete correspondence courses being given in the English, Spanish, and Portuguese languages. A small residence school is maintained in Chicago for the enrollment of students from Latin countries. Correspondence courses are offered in electrical engineering in junior, senior, and advanced courses; tuition, \$50, \$90, and \$150, with diploma and degree in advanced courses. Courses complete in automotive engineering, \$70; mechanical engineering, \$125; civil engineering, \$200; electrical therapeutics, \$150.

*Chicago—Chicago Painting School,* 436-438 North Clark Street.—A private day and evening school for white men and women over 16 years of age. Day courses are offered 6 hours a day, 5 days a week in sign painting and decorating, 14 weeks each; show-card writing, 10 weeks; paperhanging, house painting, graining, and marbling, 6 weeks each. Tuition fees, \$60 to \$175, according to course. Evening course, 2-hour periods 3 evenings a week, in sign painting,



32 weeks; decorating, 32 weeks; show-card writing, 20 weeks; paperhanging, house painting, graining, and marbling, 16 weeks each.

*Chicago—Chicago School of Printing, 230 West Jackson Boulevard.*—A private school open all year for white boys and girls over 14 years of age who have finished the eighth grade, in the city of Chicago and vicinity. Day courses run 52 weeks, 10 periods per week, in hand composition, 2-hour periods; operation of presses, 4-hour periods; English, 1½-hour periods. Evening courses, 32 weeks of the year, from 1½ to 4 hours a week in hand composition, operation of presses, English, printed advertising, and advertising typography, proof reading, elementary estimating, imposition, and lock-up. Tuition fee, according to course.

*Chicago—Chicago Technical College, 118-132 East Twenty-sixth Street.*—A private day and evening school for boys over 16 years of age. Women are admitted. Day students who have not completed the high-school course will have the necessary high-school subjects included in their course at college. Two-year courses in architecture, architectural engineering, civil, mechanical, electrical, and structural engineering, lead to the college diploma. Three-year courses in these subjects lead to the degree of bachelor of engineering. A special 3-month builders' course is offered, also short courses in drafting and design. Tuition fee, cash rate, regular day courses for 1 school year of 9 months, \$275; short courses, \$150. Evening school, 1 year of 12 months, \$115. Home-study courses are also offered.

*Chicago—Coyne Electrical and Radio School, 500 South Paulina Street.*—A resident shop training school affording practical shop work in electricity, radio, electric refrigeration and air conditioning. No experience or advanced education required; minimum entrance age, 16. No school terms. Students may enter any time. Instruction in electrical course takes 12 weeks. Instruction in radio takes 10 weeks.

*Chicago—Greer College of Engineering, 2024 South Wabash Avenue.*—A private day and evening school open all the year. Applicants must understand either the English or the Spanish language. No age limit. Courses are offered in electricity, refrigeration, air conditioning, auto mechanics,

welding, radio, aviation, machine shop, and tool and die making. Training is 75 percent actual shop work.

*Chicago—Illinois Technical School for Colored Girls*, 4910 Prairie Avenue.—A private Roman Catholic boarding school for Negro girls 6 to 15 years of age. Financial aid is received from Cook County. Tuition fee, \$15 per month. Training is given in the domestic arts  $1\frac{1}{2}$  to 3 hours per day for 40 weeks in the year.

*Chicago—The Moler System of Colleges*,<sup>2</sup> 59 East Monroe Street.—For barbers.

*Chicago—Northern Illinois College of Optometry*, 4043 Drexel Boulevard.—This school admits high-school graduates in September and February of each year. A 3-year course is offered leading to the degree of doctor of optometry. Tuition is \$900, payable \$150 per semester.

*Chicago, Pullman—The Pullman Free School of Manual Training*, 250 East One Hundred and Eleventh Street.—A private, free vocational 4-year high school for boys and girls whose parents live in or work at Pullman. Endowment \$2,500,000; size of campus, 40 acres; courses for boys: Architectural drafting, auto mechanics, electrical work, machine shop work, mechanical drawing. Before graduation, each boy has 2,400 hours in his vocational specialty, with 70 hours in each of the other shops, 3 years of English, 1 year of social science, and 2 years each of related mathematics and science. Girls specialize in stenography and typewriting, in which they have 2,400 hours. In addition, they take 2 years of bookkeeping, 4 years of English, and 1 year each of social science, physiology, commercial arithmetic, and home economics. Enrollment, 550.

*Chicago—Siebel Institute of Technology*, 958-970 Montana Street.—Eight-weeks' course in baking and milling technology—6 hours daily, including lectures and discussions in physics and chemistry, microscopy, bacteriology and yeast fermentation, baking materials and baking technology as also experimental baking; \$250. Two-weeks' course in practical cake and pastry baking, ornamenting and decorating—6 hours daily; \$100. Five-months' course in brewing,

<sup>2</sup> See footnote, p. 13, for complete list of the Moler System of Colleges.



malting, and bottling—6 to 7 hours daily, including lectures and discussions in physics and chemistry, microscopy, bacteriology and yeast fermentation, brewing materials and brewing technology, refrigeration engineering, electrical engineering and mechanical engineering, mechanical drawing, practical and experimental brewing; \$500. Home study courses are also given.

*Des Plaines—St. Mary's Training School.*—A nonsectarian boarding school for dependent boys 5 to 14 years of age, supported by the Catholic charities and aided by Cook and several adjacent counties. The school owns a farm of 650 acres. From fifth to eighth grades, five 2½-hour periods a week for 40 weeks a year are required in greenhouse, printing shop, shoe shop, carpenter shop, electrical department, bakery, paint shop, and laundry.

*East St. Louis—Aviation Associates, Inc., Curtiss Airport.*—A flying school only without any ground school classes; information about plane motor, aerodynamics, air and weather given along with flying so student can understand and apply it. Two training planes are operated; 3 instructors. Charges for flying instruction are based on hourly rates of \$7.50 and \$9, with a 10-percent discount for payment in advance.

*Glenwood—Glenwood Manual Training School.*—A private nonsectarian home school for dependent boys from 10 to 16 years of age from the State of Illinois. The school has an investment of \$1,405,713 and has had contributions of approximately \$25,000 for the past 2 years, with a farm of 430 acres. The boys have a full day school ranging from third to eighth grade. The State course of study is followed, and all boys must pass the county examinations. The high school gives training for eighth-grade graduates of the Glenwood Manual Training School (academic) only. In addition the following industrial subjects are taught: Farming, greenhouse work, dairy, machine shop, printing, wood-working, baking, office practice. Tuition fee, \$10 to \$40 per month. This is for board and tuition only. Military training is given.

*Mooseheart—Mooseheart High School.*—A private free boarding school maintained and financed by the Loyal Order of Moose for the dependent children of deceased members of



the order from the United States and Canada. The school owns a farm of 1,023 acres. Enrollment varies from 800 to 1,300. The school is organized on the 7-2-3 plan and is in session 48 weeks of the year. Home duties are required. In the eighth and ninth grades, 100 minutes daily are spent in tryout courses for trade training, 3 months in each trade for boys, and 6 months for girls. Boys' vocations are ornamental concrete, barbering, ceramics, sheet metal, machine shop, sign painting, printing, drafting, commercial art, electricity, and commercial. Girls' vocations: Beauty parlor, garment making, power sewing, cafeteria management, commercial, and commercial art.

*Peoria—Bradley Polytechnic Institute.*—Vocational courses are offered in automobile mechanism, drafting (architectural or machine), electricity, machine-shop practice, sheet-metal work, woodwork, and carpentry. Any young man over 16 years of age with general qualifications to profit by the instruction may enter any of the 1- or 2-year courses. Tuition fee, \$200 a year of 9 months. Fees covering incidentals, \$30 per year. Material in some courses is paid for by the student when the project becomes the student's property. A 4-year course leading to the bachelor of science degree is available in general engineering. Evening courses are given in vocational subjects according to demand. Teacher-training courses in industrial subjects leading to the bachelor of science degree are offered. The school in horology is open to men and women throughout the year. Unit courses in jewelry, engraving, and watchwork are offered on an individual instruction basis.

#### INDIANA

*Indianapolis—Central Y. M. C. A. Technical School,* 310 North Illinois Street.—An evening school open to men and women. Enrollment, 300. Courses are offered in mechanical drafting, 2-year course, two 2-hour periods a week, 32 weeks a year; architectural drafting, 1 year, 32 weeks, two 2-hour periods a week; welding, two 2-hour periods a week, 14 weeks; radio construction, 1 year, 2 weekly 2-hour periods; chemistry, 30 weeks, 2 weekly 3-hour periods. Special courses: Show-card writing, 12 weeks, two 2-hour periods weekly; window trimming, 12 weeks, one 2-hour period



weekly; plan reading and estimating, 32 weeks, two 2-hour periods weekly.

*Valparaiso—Dodge's Telegraph and Radio Institute.*—A private school open all the year for the training of young men and women to become radio engineers, radio operators, and railway and commercial telegraph operators. The school maintains four departments: Radio engineering, marine radio telegraphy and telephony, radio servicing, and Morse telegraphy and railway accounting. Typewriting is included in the Morse department. Tuition fees: Complete engineering course, cash plan, \$150; marine radio telegraphy and telephony course, \$100; radio-servicing course, \$50; Morse telegraphy and railway accounting course, \$100. Textbooks and laboratory fees extra. Tuition in radio engineering, marine radio telegraphy and telephony, and Morse telegraphy and railway accounting courses good for 1 year; tuition in servicing course good for 3 months.

## IOWA

*Nevada—Oak Park Academy* (successor to Stuart Industrial Academy).—Operated by Iowa Conference Association of Seventh-day Adventists for the training of young men and women for Christian service. Charges for board, room, laundry, and tuition are \$22 per month. In addition to these charges, 40 hours of required domestic labor per month are performed. Courses are offered in printing, domestic science, manual training, typewriting, and shorthand.

## KENTUCKY

*Berea—Foundation-Junior High School of Berea College.*—A private nonsectarian boarding school for white boys and girls from the Appalachian region, over 15 years of age, from first grade up, who have not completed the ninth grade. The Berea institution, owns a 600-acre farm, 60-acre garden, 75-acre campus, and 6,000 acres of forest reserve. Endowment, \$9,500,000. Price of room and board, \$3.30 a week for girls, \$3.40 a week for boys. Incidental fees, \$16 a year. Students work 2 hours a day about the institution, for which they are paid in labor credits, and earn a part of their expenses. Courses are offered in agriculture, business, auto mechanics, general shop, drafting,

home economics, paperhanging and painting, printing and linotype, weaving, upholstering, and woodworking.

*Lincoln Ridge—Lincoln Institute of Kentucky.*—A non-sectarian endowed 4-year high school and industrial institute for Negro men and women, accredited class A by the Kentucky State Department of Education. No tuition fee. All necessary expenses, except clothing for the school year amount to about \$160. The institute furnishes a large amount of labor by means of which students may earn part of their expenses. Every young woman is trained in homemaking, cooking, sewing, and child care. Courses are given in dairying, gardening, farming, plumbing, electricity, building maintenance and care, building trades and cabinet making, in addition to the usual subjects required for college entrance. All students receive instruction in correct health habits. The free clinic for students is under the supervision of a medical staff of high reputation. A unique feature of the school's program is that it attempts to extend its influence with the students after graduation by securing scholarships for those who go to college, and through its school employment bureau to find positions for graduates of the vocational courses.

*Hindman—Hindman Settlement School, Inc.*—An independent corporation operating under its own board to supplement the work of the public school. The county pays the salary of 8 teachers and part of the principal's salary, and the settlement provides the rest of a total faculty of 27, including secretaries, housemothers, matron, nurse, librarians, social workers, and executives, besides the regular teachers. There is a small endowment, but a large part of the income is raised through voluntary contributions. The students are all white and come from Knott County and other nearby mountain counties. When funds permit, 105 children live in the settlement. There are about 350 day pupils. No tuition at all is charged the high-school students, nor the grade-school students for 7 months, but as the county provides only a 7-month elementary school year, the settlement continues for 2 months more charging the first four grades \$1.50 a month per pupil and the four upper grades \$2 a month per pupil for tuition. It is accredited grade A by



the Southern Association of Colleges and Secondary Schools. A regular 4-year high-school course is offered as prescribed by the State of Kentucky. Among the courses are a 2-year course in manual training required for boys and a 2-year course in domestic science required for girls which includes cooking and sewing. A year's course in weaving may be elected. There is a fireside industry department in the school which encourages and tries to find a market for woven articles, baskets, and other handicrafts made in the community or in the school.

*Pine Mountain, Harlan County—Pine Mountain Settlement School, Inc.*—A nondenominational, private boarding school for white pupils, restricted to boys and girls from Harlan and adjoining counties in Kentucky. Endowment \$222,648; value of school plant \$156,663; enrollment, 120; 11 full-time and 10 part-time instructors; entrance fee, \$10; tuition, \$3 per month. Courses include agriculture, dairying, poultry care, auto mechanics, printing, carpentry, wood-working and furniture making, mechanical drawing, weaving, cooking, sewing, home nursing and baby care, shorthand and typing, simple store work, fundamental bookkeeping, and academic subjects. There are special evening classes in vocational subjects.

## LOUISIANA

*New Orleans—The Moler System of Colleges,*<sup>2</sup> 1106 Canal Street.—For barbers.

## MARYLAND

*Baltimore.—The Maryland Institute for the Promotion of the Mechanic Arts, Market Street Building.*—Night and Saturday schools are conducted. Tuition fee, \$15 a year. Night school offers 4-year courses in mechanical, aeronautical, architectural, marine, automobile, and sheet-metal drafting, and interior decoration. Mathematics is included. Students undertaking the first year's work must be over 14 years of age and are admitted without examination. The 4-year marine-drafting course includes the underlying principles of construction of ships, hull construction, fittings, etc., design and construction, or design of the machinery

<sup>2</sup> See footnote, p. 13, for complete list of the Moler System of Colleges.

connected with ships. Two-hour periods are given 3 nights a week, October 1 to March 31. Saturday school, October 1 to May 21, 3-hour period, mechanical and architectural drawing and teacher-training course, \$4 a year.

*McDonough—McDonough School.*—A private boarding and day school for boys 6 to 20 years of age. Scholarships for dependent white boys between 12 and 14 years on entrance from the city of Baltimore and State of Maryland. The school owns a farm of 835 acres, has an endowment of \$2,500,000, and receives State aid in the amount of \$5,000 annually. Length of school year, 36 weeks. Thirty-five weekly periods of 50 minutes each. Courses in college-preparatory, business, and general training, with special emphasis on auto mechanics, animal and dairy husbandry, and woodshop. A semimilitary organization is officered by boys appointed from the student body each year.

#### MASSACHUSETTS

*Boston—Back Bay Candy School.*—4 Victoria Street.—Professional candy-making courses are offered for men and women, morning, afternoon, and evening. Length of single course, 4 to 7 days. Complete professional course, \$45.

*Boston—Boston Candy School,* 918 Beacon Street.—Candy-making courses are offered for men and women all the year, day and evening. Fees: First course, \$10; second course, \$23; advanced course, \$20; special course, \$10.

*Boston—Boston School of Cookery,* 48 A Gloucester Street.—Open from October to June, day and evening. Cooking courses for women. Fees: \$6 to \$30, depending on course.

*Boston—Coyne State Steam Engineering School,* 97 Haverhill Street.—Open for instruction every week day and 5 nights each week the year round. This school offers to train engineers and firemen to enter the State service and meet the requirements of the license law. Average time necessary to qualify pupils to pass the examinations, 6 to 14 days. Tuition fee, \$25 to \$60. Special terms for engineers wishing to qualify for marine license, steam or Diesel oil, the position of boiler inspector for insurance companies, and State examiners of engineers.



*Boston—Eastern Radio Institute, 899 Boylston Street.*—Courses offered in: Marine operating, broadcasting, service, television, and aviation radio. Special 1-year course for high-school graduates. Tuition, \$25 per month for day school; \$2.50 per week for night school.

*Boston—The Farm and Trades School, Thompson's Island.*—A private nonsectarian boarding school, established 1814, with farm of 157 acres, where worthy boys of limited means, (above the fifth grade, may have a home, receive an education, and learn the rudiments of a trade. Enrollment, 100. The school furnishes clothes, books, and all necessities, and the boys' parents pay tuition, according to their means. Regular school courses are taught from the sixth grade through second-year high school. Courses are offered in sloyd, agriculture; printing, machine-shop practice, forging, painting, cobbling, instruction in office work, the handling of boats, care of boilers, steam-heating, household duties, and laundry work.

*Boston—Faust School of Tuning, 27-29 Gainsborough Street.*—Courses in piano and organ tuning for men and women. Fees, \$25 to \$160. Private lessons available.

*Boston—Franklin Union, 41 Berkeley Street.*—A technical institute for men and women under the charge of the Franklin Foundation. Day courses are open October to May; evening courses October to August. Applicants must be at least 17 years of age and able to profit by the instruction. Practical industrial experience will be accepted as a substitute for high-school preparation. One and 2-year trade courses are arranged to give intensive training in electrical maintenance, automobile repair, industrial chemistry, industrial electricity, and pharmacy. Evening classes are conducted in drafting, electricity, surveying, building construction, chemistry, pharmacy, ship and design calculations, steam engines and boilers, heating and ventilating, architectural office practice, estimating, plumbing, metallography, radio, automobile engines, self-starting and lighting, photography, 2-, 3-, and 4-year courses. Tuition fee for day course, \$184 per year; evening course, registration fee, \$10 to \$35, depending on course.

*Boston—Graves School, 59 Temple Place.*—Open all the year, day and evening. Courses for women are offered in drafting, costume designing, dressmaking, and tailoring. Complete professional course costs about \$500. A small part of the course may be taken if one so desires.

*Boston—Hawley School of Engineering, 115 Huntington Avenue.*—The school offers day and evening courses in steam and electrical engineering and for firemen. Applicants should be over 17 years of age and have the equivalent of a grammar-school education. Tuition fee for steam engineer's course, \$20 to \$60; course in electricity, \$60 to \$100.

*Boston—Hecht Neighborhood House, 22 Bowdoin Street.*—A private Jewish day and evening school for boys and girls from 2½ years up, residents of the West End of Boston. Dues, nominal. Courses are given in hand and machine sewing, embroidery, dressmaking, millinery, painting, drawing, woodwork, and cooking. Evening courses are given in lampshade making and rug making.

*Boston—Massachusetts Radio and Telegraph School, Inc., 18 Beylston Street.*—Open all the year, day and evening, for men but women admitted. Day course, 7 months, 4 hours daily. Tuition \$25 per month. Evening course 1 year, 2-hour periods, 3 evenings a week, \$10 per month. Radio service course, approximately 6 months, 2 evenings per week, 2-hour periods.

*Boston—Mullane Trade School, 26 Cambria Street.*—Open from September to August, 5 days a week and 3 evenings a week. Enrollments may be made at any time during school hours. School hours are from 9 a. m. to 12 m. and from 1 to 4 p. m. Evening session from 7 to 9:30 p. m. Applicants should be over 18 years of age. Instruction is largely on the individual basis. The following courses are offered: Automobile repairing and ignition, electricity, steam engineering welding, and plumbing. Length of course, from 2 to 6 months. Tuition fee, \$20 to \$150.

*Boston—Navigation School of New England, 84 Atlantic Avenue. Also 211 Savin Hill Avenue, Dorchester.*—Offers a course covering the entire range of navigation, specializing in scientific compass adjustment and in yacht and boat delivery. Evening classes at the Dorchester address. A



course up to and including arial and marine piloting is offered for \$10, and an advanced course in navigation and nautical astronomy for the same price, or enrollment may be made for the entire course for \$15. Individual and private instruction will be arranged for after consultation and at special rates.

*Boston—North Bennet Street Industrial School, 39 North Bennet Street.*—This school conducts experiments in educational activities for the benefit of the public schools and others. Courses in trade training are offered to men and women in cabinetmaking, clay modeling, wood carving, printing, watch repairing, interior decorating and painting, power-machine stitching; also Italian, English for foreigners, and naturalization classes. Fees, from \$3 to \$15, depending on course.

*Boston—United States Diesel School, 1105 Commonwealth Avenue.*—A private day school for white pupils. Equipment worth about \$30,000. Present enrollment 150; instructors 11. Tuition \$300 for the school year. The courses are secondary or college grade, varying from single subject lecture courses lasting 8 weeks to 2-year, full-time, day-school courses. The same work is available in evening school, and the theoretical part by home study. The school has 10 Diesel engines of various sizes and types, a machine shop, a tool room, and an elaborate set of laboratory test equipment.

*Boston—Wentworth Institute, Huntington Avenue.*—A private day and evening school for young men 18 years of age and over. Endowment, \$5,000,000. Enrollment, day 450, evening 400. Educational requirements for admission: For 2-year day course, high school or equivalent, or above high-school age with industrial experience. Part-time courses are available. Day courses are offered from September to June; evening courses from October to March, 2-hour periods, 3 evenings a week. Two-year day courses, 30 weekly 1-hour periods, 36 weeks a year are offered in machine construction and tool design, electrical construction, steam and electric machinery operation, architectural construction, aircraft engineering, machine-work and tool-making, pattern-making and machine-design, electrical installation and maintenance,

and printing. In evening school 11 separate courses are offered similar to day courses as far as time permits.

*Cambridge—Lowell Institute Evening School.*—Under the auspices of the Massachusetts Institute of Technology. The school comprises three courses, mechanical course, electrical course, and building course, each extending over 2 years. Applicants for admission to the first-year class must be over 18 years of age and pass successfully the entrance examinations. Considerable weight will be attached to the applicant's occupation and practical experience. Admittance to separate subjects is not given. Instruction is free. A registration fee of \$5 per school year is required.

*Florence—Hill Institute.*—Founded in 1876 as the Florence Kindergarten. An endowed free day school for children of kindergarten age, resident of Florence. Day and evening classes for children and adults in craft work, including cooking, sewing, dressmaking, woodwork, and footpower loom weaving.

#### MICHIGAN

With the exception of Cedar Lake Industrial Academy, which is a different type of school from others described, the following schools in Michigan are included in a list furnished by the State Supervisor of Industrial Education. That official classifies them as "schools operated for profit" or "operated by firms or corporations for their own employees without profit", and makes the following statements:

In Michigan all private trade schools operated for profit must be inspected and licensed.<sup>1</sup> No prospective student should have any dealings whatever with an unlicensed school or plan of instruction if a tuition fee is charged. All schools on this list are either licensed or are operated by firms or corporations for their own employees without profit. For the latter class a license is not required.

A license means that the school has met certain standards of equipment, instructors, and business ethics and is maintaining them. Particulars in regard to each school are on file in the State office.

*Beauty culture schools.*—The occupation of beauty culture is governed by a State law in Michigan. The law is administered by the State board of cosmetology, 806 American State Bank Building,

<sup>1</sup> See "General Rules and Regulations Governing the Advertising, Licensing, and Operation of Private Trade Schools in the State of Michigan Under Act 109, P. A. of 1929", published by the State board of control for vocational education, July 1934.



Lansing. Particulars in regard to the requirements of the law may be obtained from the State board. This board also licenses beauty culture schools each of which is required to teach a course 1,000 hours in length extending over a period of 6 months.

*Schools of aeronautics.*—Schools of aeronautics are under the supervision of the State board of aeronautics. Inquiries in regard to these schools should be addressed to the State board of aeronautics, 413 Olds Tower Building, Lansing, Mich.

*Cedar Lake—Cedar Lake Industrial Academy.*—A boarding and day school under the auspices of the Seventh-Day Adventists, for Michigan boys and girls over 12 years of age, who have finished the eighth grade. The school owns a farm of 223 acres. The student's total regular expense for 9 months is estimated at \$260. One hour of work on the farm or about the institution is required of each student. Instruction is given for 1 year, 37 weeks, 5 weekly 90-minute periods in printing, cooking, sewing, and typing; agriculture, 45-minute periods, 1 year.

*Dearborn—Henry Ford Trade School, Ford Motor Co.*—The school is incorporated under a Michigan statute as a nonprofit institution. Enrollment, 1,400; instructors, 105. Only local boys between the ages of 12 and 15 who have attained age-grade standing are admitted, preference being given to needy boys. One week of academic work is followed by 2 weeks of training in the school shop. Each type of training supplements the other. Upon entering, the boy receives a cash scholarship of \$6 per week, a daily hot luncheon, and \$2 each month for a savings account. The academic course includes English, mechanical drawing, arithmetic, algebra, geometry, trigonometry, shop theory, civics, economics, commercial geography, auto mechanics, physics, chemistry, qualitative analysis, quantitative analysis, metallurgy, and metallography. Boys who wish to enter college must take history and a foreign language in another school. The work of the school is approved by the city and State boards of education. In the school shop the students are given as much experience as possible in general repair work, tool work, wood and metal pattern, carpenter, bricklaying, foundry, sheet metal, gage work, and hardening. When the boys graduate they are eligible to enroll in the Ford Apprentice School, where they can complete their course in tool and die making.

*Detroit—Academy Sapho*, 107 Clifford Street at Washington Boulevard.—French dressmaking and designing (the direct method of cutting). Length of course—5 to 6 months; 1 year of experience at home or in a shop required for a diploma. Admission requirement, female. Tuition, \$90 for 55 lessons; construction materials, \$15. Sessions (all classes meet once a week) 7 to 9 p. m. twice a week; 10 to 12 a. m. three times a week.

*Detroit—Artcraft School of Millinery Design*, 148 Bagley Street.—Hat cutting on the head. Length of course, 3 months. Minimum age, 16 years. Tuition, \$300 (day classes), \$100 (evening classes). Sessions, 9 a. m. to 11 p. m.

*Detroit—Burban Welding School*, 4902 Larkins Street.—Acetylene and electric welding. Length of course, 100 hours. Minimum age, 18 years. Tuition, \$35 for each course. Sessions, 4 to 8 p. m.

*Detroit—Cassweld Welding Shop and School*, 70 Smith Street.—Acetylene and electric welding. Length of course, 2 weeks or more. Minimum age, 18 years. Tuition, Arc welding, \$35 and \$65; acetylene welding, \$35 and \$65; short courses; sheet metal \$25; brazing \$10; torch soldering \$25. Sessions, 8:30 a. m. to 9:30 p. m., 5 days a week.

*Detroit—Crane Welding School*, 4538 Crane Avenue.—Acetylene and arc welding. Length of course, no time limit. Minimum age, 18 years. Tuition, \$120 for complete course. Short units offered.

*Detroit—Detroit Art Academy*, 1208 Metropolitan Building.—Commercial art, fine art, lettering, sign arts. Length of course, 2 years. Also shorter courses. Minimum age, 16 years. Also juvenile classes. Tuition, \$25 to \$300. Sessions, 9 a. m. to 4 p. m.; 7 to 9:30 p. m.

*Detroit—Detroit Barber College*, 728 Randolph Street.—Modern barbering. Length of course, 1,000 hours, completing in 6 months. Admission requirements, seventh grade of grammar-school education. Minimum age, 16½ years. Tuition, \$75; tools and books extra. Sessions, 9 to 4 p. m.; 4 to 7 p. m.

*Detroit—Detroit College of Applied Science*, 8203 Woodward Avenue.—Drafting, tool, die, and machine design, tool engineering, production engineering, mathematics through



integral calculus, shop methods and mechanics. Day course, 16 months. Evening course, 10 months. Admission requirements, at least common-school education. Minimum age, 18 years. Tuition, \$75 to \$125, depending on course. Sessions, 10 a. m. to 5 p. m.; 7:30 to 9:30 p. m.

*Detroit—Detroit Model Guild*, 506 Fox Theater Building.—Commercial modeling and photo painting. Length of course, 5 to 8 weeks. Minimum age, 18 years. Tuition, \$15 for complete course, \$2 per hour. Sessions, 9 a. m. to 5 p. m., 7 to 9 p. m.

*Detroit—Detroit Practical School*, 23 East Jefferson Avenue.—Steam engineering and electrical courses intended chiefly to prepare candidates to pass examinations for engineers' and electricians' licenses. Admission requirement, male. Minimum age, 18 years. Tuition, \$20 to \$250, depending on course. Sessions, all year, 5 days and 3 evenings a week. Admission at any time.

*Detroit—Detroit School for Bartenders*, 1442 Griswold Street—Bartending. Length of course, 3 to 5 weeks. Admission, English speaking, neat in appearance, literate. Minimum age, 21 years. Tuition, \$40 complete course, \$20 upon enrollment, \$2 per lesson. Sessions, 9 a. m. to 9 p. m.

*Detroit—Detroit School of Lettering and Academy of Advertising Art*, 2019 West Grand Boulevard.—Lettering, sign, and show-card writing, pictorial bulletin, poster designing, silk screen process, commercial and advertising art, photo retouching, automotive illustration, advertising layouts, fashions, merchandise illustration, carton, and label designing. Length of course, 6 months to 2 years. Minimum age, 16 years except on passing special examination. Tuition, \$50 to \$500, depending on subjects taken and terms of payment. Sessions, 9 a. m. to 4 p. m.; 7 to 9:30 p. m.

*Detroit—Detroit School of Refrigeration*, 6505 Grand River Avenue.—Refrigeration and air conditioning. Admission requirements, those mentally able to absorb work. Length of course, 6 to 12 months. Tuition, \$125, terms. Sessions, 9 a. m. to 1 p. m.; 7 to 11 p. m.

*Detroit—Douglass Institute*, 584 Frederick Street.—Dress-making, millinery, and art craft. Length of course, 10 months. Admission requirement, female. Minimum age,

16 years. Tuition, dressmaking, \$65; millinery, \$50; designing, \$35; building and finishing, \$35. Sessions, 10 a. m. to 12 noon; 7 to 9 p. m.

*Detroit—Gearing Studio of Fashion Art—School of Dressmaking, Designing and Millinery*, 15 East Grand River Avenue.—Dressmaking: Designing, drafting, patternmaking, tailoring, fitting, grading, draping, sketching, color harmony. Millinery: Designing, hat cutting, draping, copying. Length of course, 8 to 40 weeks. Admission requirement, female. Minimum age, 17 years. Tuition, \$50–\$150–\$200; part-time course, \$5–\$25. Sessions, 10 a. m. to 4 p. m., daily except Saturday, Monday, and Thursday, 6 to 8 p. m.

*Detroit—Harper Avenue Training School*, 8807 Harper Avenue.—Arc and acetylene welding, metal finishing, and torch soldering. Length of course, 10 days. Minimum age, 18 years. Tuition, \$35 short course; \$65 longer course; \$25 metal finishing. Sessions 8:30 to 10 p. m.

*Detroit—Household Art School*, 431 Ferry Avenue, East.—Colored school for household service employees. Length of course, 1 to 3 months. Minimum age, 16 years. Tuition, \$3 with 50 cents monthly optional consultation fee; short course, \$1. Sessions, 8 to 9:30 p. m. daily except Saturday and Sunday.

*Detroit—Knott Electrical School*, 23 East Jefferson.—Armature winding. Length of course, 1 year. Admission requirement, male. Minimum age, 18 years. Tuition, \$190. Sessions, 7 to 10 p. m.

*Detroit—LeGrande Chic Parisian School*, 2457 Woodward Avenue.—Sartorial and textile arts and interior decorating. Length of course, 12 weeks to 4 years. Minimum age, 16 years. Tuition, paid by the week, \$5–\$10–\$25. Sessions, 10 a. m. to 4:30 p. m.; 7 to 9 p. m.

*Detroit—Madame Neron School of Hat Designing*, 107 Clifford Street.—Hat making and designing. Length of course, 3 months. Admission requirement, female. Minimum age, 16 years. Tuition, \$75. Sessions, 10 a. m. to 3 p. m., Monday, Wednesday, and Friday. Evening class Tuesday, 7 to 10 p. m.

*Detroit—Michigan Academy of Radio Science*, 13535 Woodward Avenue.—Radio: Aircraft, marine, sound amplification,



television; radio service; broadcast radio operating. Length of course, 6 months. Minimum age, 17 years. Tuition, \$50 to \$125. Sessions, Monday, Wednesday, and Friday, 9 to 12 a. m., 7 to 10 p. m.

*Detroit—Michigan Technical School, 19125 Mount Elliott Avenue.*—A technical school teaching tool and die design, tool engineering, production engineering, and related subjects. Length of course, 4 to 16 months. Admission requirement, written application. Minimum age, 18 years. Tuition, \$200 for full-time course in production engineering; short courses, \$25 to \$100. Sessions, 9 to 12 a. m.; 1 to 5 p. m.; 7 to 10 p. m.

*Detroit—Michigan Trade School, 3760 Woodward Avenue.*—Auto mechanics, arc and acetylene welding, metal finishing. Length of course depends on progress. Auto mechanics, day course, 8 to 12 weeks, night course at least 6 months; welding, 4 weeks, either course; metal finishing, 4 weeks; short course in welding or metal finishing, 2 weeks. Admission requirement, male. Minimum age, 18 years. Tuition, battery course, \$50; automotive electricity, \$100; complete auto mechanics course, \$125 cash; welding, \$65; metal finishing, \$65; short course in welding or metal finishing, \$35. Sessions, 8:30 a. m. to 4 p. m.; 7 to 9:30 p. m.

*Detroit—Modern Designing School, 2924 West Grand Boulevard.*—Special manufacturing methods in dressmaking.

*Detroit—Moler Barber College,<sup>2</sup> 559 Michigan Avenue.* Barbering. Length of course, 1,000 hours. Minimum age, 16 years. Tuition, unlimited course \$75; textbook, \$5; tools (if required), \$18. Sessions, 9 a. m. to 7 p. m.

*Detroit—National Art Studio, Room 306, 2033 Park Avenue.*—Portrait photography. Length of course, 3 years; short units, 3 months. Minimum age, 16 years. Tuition, \$500 complete course; short units, \$50, 3 months, or \$20 per month; retouching only, \$15 per month. Sessions, 9 a. m. to 5:30 p. m.; 7 to 9 p. m. twice a week, 2 hours at a time for each student.

*Detroit—The Nelson Dressmaking School, 115 East Grand River Avenue.*—Dressmaking and ladies tailoring. Length

<sup>2</sup> See footnote, page 13, for complete list of the Moler System of Colleges.

of course, 6 to 8 weeks (depends on student). Admission requirement, female. Minimum age, 18 years. Tuition, \$50 complete course, \$1 per lesson. Sessions, 9:30 to 11:30 a. m.; 6:30 to 8:30 p. m.

*Detroit—School of Industrial Design, 225 Convention Hall, 4464 Cass Avenue.*—Tool designing, mechanical drawing, die designing, auto body drafting. Length of course, 10 to 15 months. Minimum age, 18 years. Tuition, \$150 to \$200; short units \$25. Sessions, 1:30 to 4 p. m.; 7:30 to 10 p. m.

*Detroit—Wolverine School of Trades, 1400 West Fort Street.*—Metal finishing, acetylene and arc welding, tool and die making, machine shop, body and fender repair. Length of course (depends on subject, unlimited time allowed), 2 weeks to 2 years. Admission requirement, male. Minimum age, 16 years tool and die department, other trades 18 years. Tuition, \$25 to \$200. Sessions, 8 a. m. to 4 p. m.; 6 to 9 p. m. on Monday, Wednesday, and Friday evenings.

*Flint—Flint Barber College, 721 South Saginaw Street.*—Barbering. Length of course, 1,000 hours. Minimum age, 16 years. Tuition, \$100 including tools. Sessions, 9 a. m. to 6 p. m.

*Grand Rapids—Fox's Barber College, 418 Monroe Avenue.*—Barbering. Length of course, 6 months. Minimum age, 18 years. Tuition, \$50. Sessions, 8 a. m. to 6 p. m.; 8 a. m. to 8 p. m. Saturday.

*Highland Park—Highland Park Barber College, 70 Victor Avenue.*—Barbering. Length of course, 6 to 18 months. Minimum age, 16½ years. Tuition, \$100 full course. Sessions, 8 a. m. to 8 p. m.

*Lansing—Gleason School of Welding, 118 West Wash-tenaw.*—Welding. Length of course, 2 months. Admission requirement, male. Minimum age, 18 years. Tuition, \$65; short units, \$35. Sessions, 8 a. m. to 5:30 p. m.; 7 to 9 p. m.

*Saginaw—Michigan Academy of Art, Brewer Arcade.*—Commercial art. Length of course, 2 years; also short units. Minimum age, 16 years. Tuition, \$185 per school year; \$25 per month for specials. Sessions, 9 to 12 a. m.; 1 to 4 p. m.; 7 to 9 p. m.



## MINNESOTA

*Minneapolis—Brady and Rogers, Minneapolis School of Beauty*, 1022 Nicollet Avenue.—A minimum of 1,000 hours of training in beauty culture is offered in accordance with the requirements of the State board. Enrollment, 210; each class limited to 16 students. Tuition, \$100.

*Minneapolis—Diesel Power Engineering Schools*, 524 Tenth Street, South. (Also 3320 Twentieth Street, San Francisco, Calif.)—A trade school offering shop and theory in Diesel engineering. Evening classes and home-study courses. Enrollment, 600; instructors, 15. Tuition: Day course, \$250; night course, \$150; home-study course, \$50.

*Minneapolis—The William Hood Dunwoody Industrial Institute*, 818 Wayzata Boulevard.—The William Hood Dunwoody Industrial Institute is a vocational school, founded in 1914, with an endowment of more than \$5,000,000. According to the terms of Mr. Dunwoody's will the school is to offer free instruction in the industrial and mechanical arts to the youth of the city of Minneapolis and the State of Minnesota. It was the purpose of the founder of the William Hood Dunwoody Industrial Institute to help young men who wished to follow "industrial and mechanical arts" to prepare themselves in their chosen field. It was his further wish to offer opportunities to ambitious men already engaged in industrial and mechanical arts to improve themselves in their craft that they might rise to positions of greater responsibility. The school, in an effort to carry out the wishes of its founder, has organized a variety of courses in many trades so as to offer opportunities to as great a number as possible with the funds available. The total yearly enrollment is 4,000.-

The day school in general is divided into two types of courses—*regular* and *special*. The regular courses are primarily designed for young men and boys and inexperienced men who are desirous of studying to become tradesmen. Entrants must be 16 years of age or over and at least eighth-grade graduates. The regular day-school courses are 2 years in length, during which one-half of each day is spent in shop work and the other half in class work. Class work includes

shop knowledge, shop drawing, shop mathematics, English, applied work, and gymnasium.

Special courses in the day school are planned for men and boys who have had some experience in the lines of work in which they seek further instruction. Special courses are, in a way, similar to evening courses because in many cases the instruction is of a trade extension type which extends the knowledge and skill one already has in a particular line of work. In the special courses, the entire day, in most cases, is spent in actual shop work with the exception of about 1 hour a day which is spent in class work or shop knowledge. These special courses are sometimes referred to as "in and out" courses, wherein a worker comes into the school for instruction and goes out into the trade to use it, then back to the school for further instruction and back to the trade to apply it.

The evening school at Dunwoody Institute is primarily a school for people who seek additional training in the work in which they are already employed. The instruction is therefore known as *trade extension* work, extending the knowledge and skill which one has already acquired. The evening school may be considered as a place in which one discusses or exchanges ideas, taking away from each class new ideas which must be exercised in connection with the daily work. Under these conditions, the student is a learner on the job as well as a student receiving instruction in the evening school. Without the shop or contact with the actual work evening school instruction is less effective for the learner. For this reason the evening school is known as a trade extension school. Evening school is conducted for a period of 6 months, beginning usually the first week in October and closing in April.

In general, instruction is offered in both day and evening school in the following subjects: Auto, baking, printing, welding, highway, drafting, linotype, electricity, bricklaying, sheet metal, mathematics, machine shop, building construction, painting and paperhanging, steam engineering.

*Minneapolis—Keister's Dressmaking and Designing School, 1502 Nicollet Avenue.*—A private day and evening school offering courses in pattern making, pattern designing, and sewing to students 16 years of age and over. Length of term



3 to 4 months, varying with the student, as instruction is given individually. Tuition \$60 payable in advance; \$62.50 in two payments, or \$65 in three. Tuition for evening classes \$40, for pattern making and fashion designing only.

*Minneapolis—Minneapolis School of Art*, 200 East Twenty-fifth Street.—An endowed institution sponsored by the Minneapolis Institute of Fine Arts. Offers resident courses in advertising art, fashion art, illustration, interior decoration, design, drawing, painting, and sculpture, so planned as to give the student a broad foundational training, adaptable to the requirements of any major development, either in the field of applied or fine arts.

*Minneapolis—Paul's Incorporated*, Loeb Arcade.—A school of beauty culture. Branches in New York City and St. Paul, Minn. Total enrollment for the three schools, 285. Day and evening classes. The student must complete 1,000 hours of actual training. Grammar-school education required for entrance. Tuition including tools and textbooks, approximately \$100, fluctuating somewhat with the time of year.

*Minneapolis—Smeby School*, First Avenue and Lake Street.—Complete day and evening courses in show-card writing, window dressing, display management, and retail advertising. Complete course, 8 to 12 weeks. Tuition fee, \$60 to \$225, depending on course.

*Minneapolis—Twin City Barber College*, 204 Hennepin Avenue.—Courses in barbering, massaging, hair cutting and bobbing, scalp and facial. Six months' course (26 weeks), six 8-hour periods a week. Tuition fee, \$75; set of tools, \$25.

*St. Paul—Lee Beauty School of St. Paul, Inc.*, 45 East Seventh Street.—A course in beauty culture in which the student must complete 1,000 hours of training. Eighth-grade education required for entrance. Tuition, \$80 cash or \$90 on the time-payment plan, which includes all necessary tools. Day classes only. Enrollment 50.

*St. Paul—Lee School of Barbering*, 232 East Seventh Street.—Length of course, 1,000 hours. Entrance requirement, sixth-grade education. Day classes only. Tuition, \$105 cash or \$115 on the time-payment plan, which includes all necessary tools. Enrollment 12.

*St. Paul—The Stone School of Watchmaking.*—A school open all the year for white boys and men 16 to 35 years of age. Watchmaking course all day 6 months to 1 year. Tuition fee, \$135.

## MISSISSIPPI

*Okolona—Okolona Industrial School.*—A boarding and day school for the training of young Negro men and women. The school owns 380 acres of land, 60 of which lie within the corporate limits of the town, and has some endowment. High school, and trade, normal, and liberal arts courses of junior college grade are offered. Board and room, \$10 per month. Entrance fees per year, \$8.50; tuition per month, \$2.50. These low rates are designed to benefit poor and needy students. Particular emphasis is placed upon the building trades for young men, and general home science for young women.

*Piney Woods—Piney Woods Country Life School.*—A high school and 2 additional years of teacher training for Negro boys and girls, offering for boys courses in carpentry, cabinet-making, cement and concrete work, drafting, electrical work, gas-engine mechanics, leather work, printing, and shoemaking; for girls: Sewing, basketry, weaving, cooking, laundering, housekeeping, canning and preserving, music, and poultry raising.

## MISSOURI

The State supervisor of vocational education furnished the following list of schools. Descriptions are included on the pages which follow in all cases in which we were successful in obtaining the necessary information.

**Kansas City:**

Comptometer, Adding and Calculating Machine Co., Lathrop Building, Tenth and Grand Avenue.

Finley Engineering School, 1001 Indiana Avenue.

First National Television, Inc., 106 West Fourteenth Street.

Keister Tailoring and Dressmaking College, Altman Building.

Schreiber Institute of Refrigeration, 330 East Thirty-first Street.

Stevenson Auto and Electrical School, 2008 Maine Street.

Universal Plumbing School, 2109 Troost Avenue.



## St. Louis:

Brandenburger School of Dressmaking, 4653a Maryland.  
 David Ranken School of Mechanical Trades, 4420 Cook.  
 Mme. C. J. Walker Beauty Culture School, 2337 Market.  
 Marinello School of Beauty Culture, 4479 Washington.  
 Mary T. Bender Beauty Shop and School, 359 North Boyle.  
 Missouri Academy of Beauty Culture, 5733a Delmar.  
 Moler Barber College, 810 North Sixth.  
 Schleicher's Technical School, 3607 California.  
 St. Louis Academy of Beauty Culture, 520 St. Charles.  
 St. Louis Flying Service, Inc., Lambert St. Louis Flying Field.  
 Talbot's Academy of Beauty Culture, 1219 North Taylor.

*Kansas City—Finlay Engineering College, Inc.*, Tenth Street and Indiana Avenue.—A day school offering practical training in engineering leading to a diploma or a degree. The courses are: Electrical engineering, mechanical engineering, architectural and structural engineering, and architecture. Tuition ranges from \$195 to \$290, depending on course and method of payment.

*Kansas City—First National Television, Inc.*, 106 West Fourteenth Street.—The "Training division" of First National Television, Inc., is a privately owned school operating day and evening classes; value of equipment, approximately \$50,000; present enrollment, 100 resident students, 1,500 extension students; employs 8 instructors; tuition fee, \$295; requirements for entry, high-school education. Courses: Radio receivers and servicing; radio transmitters and operating; television—theory, practice and experimentation; broadcast transmitters and operating; television broadcasting and operating.

*Kansas City—Keister College of Designing, Dressmaking, and Tailoring*, 208 Altman Building.—A private school, day or evening classes, 6 days per week. Complete course, \$50; requires about 3 months.

*Kansas City—The Moler System of Colleges*,<sup>2</sup> 721 Main Street. For barbers.

*Kansas City—Universal Plumbing School*, Twenty-first Street and Troost Avenue.—Open all the year for white men over 17 years of age having a grammar-school education.

<sup>2</sup> See footnote, p. 13, for complete list of the Moler System of Colleges.

Complete plumbing course, 5½ days weekly, all the year. The average pupil generally proves capable in about 10 weeks. Tuition fee, \$165. Special courses in shop management and for those contemplating starting a shop.

*Kansas City—McSweeney Trade Schools, Inc.*, 1729 McGee Street (also at 1815 East Twenty-fourth Street, Cleveland, Ohio).—Auto mechanics, auto electricity, and battery expert courses. Tuition, \$195. The schools pay the students' bus fare to Kansas City or Cleveland and agree to give them enough part-time work to pay 8 weeks' board and room, which is the time required by the average student to complete the course.

*Kansas City—Schreiber Institute of Refrigeration*, 330-334 East Thirty-first Street.—A small private day school teaching refrigeration only and a preliminary part of air conditioning. The first three-fourths of the course is class work and the last part actual shop work. The term lasts from 10 to 12 weeks according to the ability of the student. One instructor; tuition, \$150. Evening classes 2 nights a week.

*St. Louis—Brandenburger School of Dressmaking*, 4653a Maryland Avenue.—Pattern making to individual measurements; tailoring; sewing, cutting, and fitting of garments are taught through individual instruction. Classes daily from 9 a.m. to 4 p.m. and private instruction given by appointment. Tuition, \$50 for a complete course of 60 days. Students may select their own days to attend.

*St. Louis—Hohenschuh-Carpenter College of Embalming*, 4937 Forest Park Boulevard.—The school is open to men and women over 18 years of age who have finished 4 years of high school, or its equivalent. The course includes lectures, demonstration, and laboratory work in the modern accepted methods of embalming. Forty weekly, 50-minute periods, for 26 or 39 weeks courses. Tuition fee, 26-week course, \$275.50; 39-week course, \$415.50. The college is an accredited Grade AA, as defined by the Conference of Embalmers Examining Boards of the United States, Inc. It is a college operated without capital stock and without profit, and it is hoped to build up an endowment that will tide it over depression periods.



*St. Louis—Moler System of Colleges, Barbering Department,*<sup>2</sup> 810 North Sixth Street. Day and evening classes, with an enrollment of approximately 150 students attending day classes and an average of 40 students in night classes. It requires 6 months to complete a course by attending day classes, and approximately 14 months to complete by attending evening classes. The entrance requirement is an education equivalent to the eighth grade, and one must be 16 years of age. Tuition charges range from \$100 to \$300 depending upon the course selected.

*St. Louis—National School of Cosmeticians, Inc., affiliated with Marinello,* 4479 Washington Boulevard.—Day and evening classes in beauty culture. As required by law the course is 1,000 hours which is equivalent to 6 months in day classes or almost 2 years in the evening school. The entrance requirement is an eighth-grade education. The student must be 16 years of age or over. Six instructors and one assistant; enrollment, approximately 75. Service is offered to the public in order that advanced students may have the advantage of shop experience and salesmanship. For this a nominal charge is made. Tuition for the complete course in beauty culture is \$200, which includes books and equipment.

*St. Louis—The David Ranken, Jr., School of Mechanical Trades,* Finney, Newstead, and Cook Avenues.—An endowed trade school which aims to fit boys and men for the mechanical or manual trades and occupations. Enrollment, about 1,000. The preparatory division admits boys from 14 to 16 years of age. Half of the day in this division is devoted to work in the shop and the remainder to drafting, mathematics, and English. The preparatory work covers a period of 1 year and is almost wholly individual. The regular day school is open to boys 16 years of age or over who have completed the eighth grade in the public schools or the equivalent. Applicants who have had experience in a trade may be admitted with less schooling. Tuition fee, day school, \$45 a year; evening term, 12 weeks, \$6 to \$12. Registration fee, \$2. Breakage and locker deposit, \$2. Two-year day courses, 44 weeks per year; twenty 1-hour and 40-minute periods per week, are offered in automobile re-

<sup>2</sup> See footnote, p. 13, for complete list of the Moler System of Colleges.

pair, carpentry, electricity, machine shop practice, painting, patternmaking, plumbing, power-plant operation, radio, refrigeration, and welding. Three-year evening courses, 36 weeks per year; four weekly 2-hour periods are offered in the same courses, with the addition of heating and ventilating and air conditioning.

*St. Louis—Schleicher's Practical Technical School, 3601-7 California Avenue.*—Instruction given in all branches of free hand, geometrical, perspective, isometric, architectural, mechanical, structural and concrete drawing, designs and details; architectural, mechanical, structural, reinforced concrete and plant maintenance engineering; mathematics, arithmetic, geometry, algebra, trigonometry, strength of materials, graphic statics, mechanics and their practical application. Open every day and night the year round from 8 a. m. to 9 p. m. Any man or boy, apprentice or journeyman of any trade, regardless of age or education, is eligible. Tuition, \$15 per month for day school; night school, \$2.50 per month 1 night per week; 2 nights per week, \$5; 3 nights per week, \$7.50.

*St. Louis—St. Louis Watchmaking School, 5815 Easton Avenue.*—Courses are offered in watch, clock, and engraving. Individual instruction. The course should be mastered in about 1 year's time. Tuition fee, \$75. Cost of necessary tools, from \$50 to \$120.

*St. Louis—Tri-City Barber College, 811 Market Street.* Open all the year. Pupils must be over 16 years of age. Tuition fee, \$25; cost of tools, \$15.

*St. Louis—Y. W. C. A., Educational Unit, 1411 Locust Street.*—Classes and lectures are offered covering subjects related to homemaking, arts and crafts, and vocational adjustment.

#### MONTANA

*Billings—Billings Polytechnic Institute.*—An interdenominational Christian college and school of vocations for boys and girls, consisting of the 4-year college, high school, school of electrical engineering, school of business, and vocational school. The school has property valued at \$750,000. All vocational students must be at least 16 years of age and must take a course in practical English, business or shop



arithmetic, and penmanship and one of the five following subjects: Automotive engineering, practical electricity, carpentry, cabinetmaking, or agriculture. The manual training department offers courses of sufficient scope to educate and train mechanics for the various courses outlined and at the same time so arranges the work in the junior and senior years that teachers may be trained to handle this work in elementary schools through the country. Tuition, \$125. All expenses, tuition, room and board, \$300 to \$425. The school of engineering offers a 3-year course for high-school graduates and an academic electrical engineering 4-year course. The radiotelegraphy course prepares students to take the United States Government examinations.

## NEBRASKA

*Lincoln—Lincoln Airplane and Flying School*, Twenty-fourth and O Streets.—Open all the year for practical training. Offers complete training in both flying and airplane mechanics. Tuition fee, \$261.25 to \$2,512, according to course. Special summer courses offered.

*Omaha—The Moler System of Colleges*,<sup>2</sup> 1302 Douglas Street.—For barbers.

## NEW HAMPSHIRE

*Manchester—New Hampshire Institute of Arts and Science*.—A school of fine arts offering courses in all fundamental art subjects, together with applied art, including numerous handicrafts.

## NEW JERSEY

*Camden—Y. M. C. A. Extension Institute*, 614 Federal Street.—Offers courses in all the business and technical sciences, including complete high-school and preparatory courses. Tuition fee includes textbooks and all services.

## NEW MEXICO

*Albuquerque—Harwood School for Girls*, Mountain Road and Seventh Street.—An elementary and 4-year high school for girls, under the auspices of the Methodist Episcopal

<sup>2</sup> See footnote, p. 13, for complete list of the Moler System of Colleges.

Church. Tuition fee and board, \$108 per year. Each girl has a part of the housework for which she is responsible each day. Instruction is given in sewing, domestic arts, and domestic science.

## NEW YORK

*Albany—The New York Diesel Institution, Inc., 737 Broadway.*—A specialized school in the operation, maintenance, installation, and sale of Diesel engines. The course is a combination of home study and practical training, consisting of 50 lessons and 6 examinations. The home study portion of the training is usually completed in 7 to 8 months; 6 weeks of practical training are then taken at the school. Enrollment in this course, 120; instructors, 4. Tuition, \$125.

Beginning January 1, 1935, a residential day school for a limited number of students will begin. Tuition for this course, \$375. Evening classes 3 nights a week.

Approximate value of school plant, \$10,000.

*Brooklyn—Pratt Institute, Ryerson Street between De Kalb and Willoughby Avenues.*—The institute is liberally endowed. Day and evening courses are offered in a wide range of art, scientific, industrial, engineering, home economics, and library science subjects. Broad standards of admission are maintained with due recognition of vocational experience. High school, or its equivalent, is prerequisite to admission to most of the courses. Pratt Institute confers no degrees but its 3-year courses of an intensive type qualify the graduate for responsible positions. Tuition fee in day school, 36 weeks, five 6-hour days, approximately \$170 per year. Cost of books and other supplies \$45 to \$60 per year. Evening courses are arranged in 12-week units, 3 evenings a week, during the months of September to May. No summer courses are offered.

*College Point (Flushing Station), Long Island—Poppenhusen Institute, 114-24 Fourteenth Road.*—A private free evening school for young men and women of College Point and vicinity over 16 years of age. Founded 1868. Endowment, \$245,000. Elementary school education required for admission. No tuition charged. The following industrial



2-year courses are offered: Architectural drawing, mechanical drawing, machine-shop practice, 2 weekly 2-hour periods, 26 weeks per year. Two-year courses are offered also in applied art, commercial art, interior decoration, dressmaking, and business courses, including stenography, typewriting, business English, elementary and advanced accounting. Enrollment, fall term 1934, 400 students.

*Freeville—The George Junior Republic.*—The Republic owns 360 acres of land on which are 11 cottages, has an endowment of \$150,000, and receives some State aid. The community has assets worth half a million dollars, including its own bank, post office, courthouse, jail, government offices, fire department, and hospital. The school building will accommodate 200 pupils. The citizens of the Republic are 15- to 21-year-old boys and girls of all social classes. No citizen may possess anything he has not worked for. Token money is used in the village. The expense of running the Republic is borne principally by voluntary contributions. Payment for the board of citizens by parents, guardians, or societies is the second source of revenue. Tuition, \$350 yearly. Grade, high-school, and college-preparatory courses are taught. A 1-year course, five 45-minute weekly periods, 50 weeks per year, is given in carpentry. Training is also given in printing, baking, plumbing, agriculture, and gardening.

*Rhaca—Empire State School of Printing,* 440 West State Street.—Supported by New York State Publishers' Association and American Newspaper Publishers' Association. Men over 18 years of age are admitted. Previous education required for entrance, 2 years of high school; exception is made for applicants over 21 years of age. Tuition fee, \$325 for 9 months. Laboratory fee, \$30 additional for linotype course. The subjects offered are printing and advanced typography, 44 hours per week, 36 weeks per year; printing and linotype operation and mechanism, 44 hours weekly, 36 weeks per year. Special courses are given in various branches of printing.

*New York—Baron de Hirsch Trade School,* 222 East Sixty-fourth Street.—An endowed free trade school for young men from 16½ to 25 years of age. No fixed educational

requirements, but all applicants must be physically and mentally fit for the work of the skilled mechanic. Short intensive courses are given in the following trades: Electrical installation, electrical maintenance, plumbing, machine work, auto mechanics, sign painting, show-card writing, printing. Six hours each day are devoted to shop work and 1 hour to related drawing or mathematics. Each course covers a period of 5½ months (725 working hours) and instruction is given in day classes only. A free placement service is conducted for graduates. According to the deed of trust, this school was founded to assist Jewish young men. Under existing conditions non-Jews of limited means will be accepted as pupils.

*New York—Ethical Culture Schools*, Sixty-third Street and Central Park; also at Spuyten Duyvil Parkway, where the Fieldston units of the schools are located.—Kindergarten, elementary, open-air, high-school, college-preparatory, and teacher-training departments are maintained. From two-fifths to three-fifths of the pupils must always be admitted on a free or part-free basis. The school has prevocational departments in art, business, and household arts. Tuition fee, from \$320 to \$650, according to grade. Instruction is given, averaging two 85-minute periods, 33 weeks per year, in mechanical drawing, craft woodwork, cabinetmaking, machine-shop practice, and printing to high-school students choosing among these subjects as a part of their regular programs. Elementary-school pupils have shop periods varying according to their ages and grades.

*New York—Hebrew Technical Institute*, Stuyvesant and East Ninth Streets.—A manual-training school for boys of New York City, 14 to 17 years of age. Tuition and tools are furnished free. Candidates for admission must pass a satisfactory examination in arithmetic, English, geography, and United States history. Three-year courses are offered in mechanical, architectural, and free-hand drawing, woodwork, metal work, electrical work, automotive engineering, automotive electricity, applied science, and construction work. Special courses, 2 hours a day.

*New York—Mechanics' Institute*, School of the General Society of Mechanics and Tradesmen of New York City, 16 West Forty-fourth Street.—The society has a large



endowment and is not connected with any organization or institution. A mechanic or tradesman, citizen of the United States, vouched for as to character, is eligible to membership in this society upon payment of the initiation fee of \$100, which payment constitutes him a life member, there being no dues or assessments. The school offers free instruction to young men employed during the day, two 2-hour periods weekly from September to April, in mechanical and architectural drafting, blueprint reading, and related work in electricity, and applied courses in mathematics. Regular courses are 3 years in order to graduate.

*New York—Merchant Marine School, 25 South Street.*—The Merchant Marine School of the Seamen's Church Institute of New York is a self-supporting school, operating without any endowment. This school qualifies men to pass examinations for licenses in navigation, marine engineering, and aviation, for which there is a nominal tuition. Free instructions in the school are given on life-saving and life-boat handling and to boys who qualify as cadets in the school. Free instructions are given to unemployed seamen in seamanship, knotting and splicing, including wire splicing.

*New York—The Moler System of Colleges,<sup>2</sup> 139 East Twenty-third Street.*—For barbers.

*New York—The New York Electrical School, 39 West Seventeenth Street.*—A day and evening school open the entire year, offering instruction in all branches of applied electricity. No entrance examinations are required. A student of average intelligence should finish the course in about 6 months. Night sessions, four 2-hour periods a week, cover about 12 months. Tuition fee, \$195; cost of tools, etc., about \$25.

*New York—New York Institute of Photography, 10 West Thirty-third Street.*—Personal attendance vocational courses for men and women in motion-picture, portrait, or commercial (advertising, news, industrial) photography. Individual instruction. Students may start at any time. All equipment furnished. Day or evening. Tuition fees from \$150 for courses in separate branches to \$250 for all branches. Six to 44 weeks, depending upon hours of attendance.

<sup>2</sup> See footnote, p. 13, for complete list of the Moler System of Colleges.

Also home-study courses in professional still photography, including commercial photo finishing, and motion-picture photography, including projection. Tuition fee, \$62.50. Small installment payments may be arranged for all courses, both resident and home-study.

*New York—School for Printers' Apprentices of New York* (cooperative), 106 West Fourteenth Street, New York, N. Y.—Financed by New York Typographical Union No. 6 and employers' group. School is open from September to June. Instruction 3 to 5 in afternoon, 6 to 8, evenings, 5 days a week. The school is for registered union apprentices who begin school their second apprentice year once a week, 2 hours on employer's time and 2 hours on own time. Tuition fees are, second year, \$15 per year; third year, \$18; fourth year, \$22; and fifth year, \$50.

*New York—New York Trade School*, 304-26 East Sixty-seventh Street.—A day and evening school for young men 17 to 30 years of age. Endowment, \$750,000. Automobile mechanics course, 5 weekly 6-hour period; complete, 7 weeks; electrical course, 5 weekly 6-hour periods; complete, 14 weeks; plumbing course, 5 weekly 6-hour periods; complete, 14 weeks. Evening courses, 3 weekly 2-hour periods, 26 weeks per year; auto mechanics, 1 year; bricklaying and carpentry, 2 years each; electrical work and plumbing, 4 years each; printing, 3 years; sheet-metal work, 5 years; steam fitting, 4 years; sign painting, 4 years; house and decorative painting, 4 years.

*New York—New York Y. M. C. A. Schools*, 5 West Sixty-third Street.—Trade and technical courses are offered in air conditioning, auto electricity, auto mechanics, building superintendence, motion-picture machine operating, radio servicing, radio operating, refrigeration servicing, sign painting, and show-card writing. Length of courses ranges from 2 weeks to 50 weeks, and tuition fees from \$14 to \$126, depending on course. Day and evening classes are offered in many subjects, with a few of the courses continuing during the summer months.

*New York—R. C. A. Institutes, Inc.*, 75 Varick Street.—Conducted under the supervision and ownership of the Radio Corporation of America. The Institutes offer instruction



and practical training in all technical branches of radio and in certain associated electronic fields. The instruction, with the exception of mathematics as applied to the science of electrical communications, and certain advanced subjects, is also covered in extension courses for home study. Resident school courses are: Radio servicing, commercial radio operating, sound amplification, broadcast transmission, general course, preparatory course, and mathematics as applied to the science of electrical communications. Entrance requirement for the service and preparatory courses, elementary school education; for all other courses, the equivalent of 1½ years of high-school algebra and 1 year of geometry. Both sexes admitted. Length of day courses ranges from 13 to 65 weeks. The tuition ranges from \$3 to \$10 per week. Approximately one half the tuition rates and twice the length of courses apply in the evening sessions. This school has been in continuous operation for 25 years.

*New York—The Stewart Technical Trade School, 253-55-57, West Sixty-fourth Street.—Founded in 1909. Registered by the University of the State of New York. Automotive and aviation courses for prospective mechanics and service engineers. Technical and practical training all the year round. Automotive mechanics course, 5 months, days; 10 to 12 months, evenings; automotive service engineer course, 1 year, days, 2 years, evenings; aviation master mechanics course, 1 year, days, 2 years, evenings; aeronautical engineering course, 1 year, days, 2 years, evenings. Tuition fees range from \$200 up according to course or combination of courses selected.*

*New York—Clarence H. White School of Photography, 460 West One hundred and forty-fourth Street.—A day and evening school emphasizing the professional and art aspects of photography, for men and women over 16 years of age. Applicants should have a high-school education. Tuition fee, \$300 for the year of 30 weeks. Evening courses, 2 weekly 2-hour periods, 30 weeks. Summer courses, 4 weeks.*

*Rochester—Rochester Athenaeum and Mechanics Institute, 55 South Plymouth Avenue.—Day and evening classes provide advanced, intensive technical instruction, combined with liberal instruction. Since the curricula are based on the activities of basic terminal jobs and the activities of com-*

munity life, few elective subjects are offered in any courses. No degrees are granted. Courses are designed to help young men and women advance in the fields of industry, commerce, art, and home economics. The institute is open to high-school graduates or people over 18 years of age who are in good health and show satisfactory evidence of capacity to profit by the instruction. More than 95 percent of the students are high-school graduates and a few are college graduates. There are a few loan funds available for students. The tuition fee for any cooperative course, exclusive of laboratory and student association fees is \$200; for full-time courses, \$250 a year. Evening school tuition varies from \$5 to \$20 per term. The average cost of room and board is \$6.25 per week. The following 3-year courses are offered: Cooperative mechanical course, cooperative electrical course, cooperative industrial chemical course, cooperative construction supervision course. Two years of instruction are offered in: Cooperative food administration course, cooperative retail distribution course, cooperative costume art and retailing, cooperative interior decoration and retailing. The school of applied arts offers 3-year, full-time courses in craft, design, interior decoration, illustrating, and advertising art, as well as a 2-year teacher-training course in art education. The institute occupies an entire city block.

*Union Springs—Union Springs Academy.*—A boarding school for boys and girls over 14 years of age, under the auspices of the Seventh-Day Adventists. Twelve grades of school work are offered. Previous education for entrance, 8 grades. Tuition fee, \$85.50; room and board, \$162.50. College preparatory and also instruction is given in agriculture, printing, woodworking, cooking, and sewing. Thirty-eight weeks, 50-minute periods.

#### NORTH CAROLINA

*Swannanoa—Asheville Farm School.*—A private boarding school for white mountain boys over 14 years of age. The school is located on a farm of 684 acres which is owned and supported by the board of national missions of the Presbyterian Church in the United States of America. The student fee for the school year of 9 months is \$190. This covers board, room, tuition, and laundry. This amount



may be either paid in cash or worked out, or part cash and the balance in work. The school is operated on a progressive basis, no classes, all instruction is individual, based on creative activity project procedures. Instruction is offered in English, languages, mathematics, sciences and social sciences, agriculture, engineering, woodworking, printing, and landscaping.

## NORTH DAKOTA

*Fargo—Hanson Auto and Electrical School*, 65 Third Street North.—Practical training is given in auto electricity, motor mechanics, tractor mechanics, and storage battery. Average time to complete, 3 months. Tuition fee for full course, \$125.

*Fargo—Moler System of Colleges*,<sup>2</sup> 418 Front Street.—For barbers.

## OHIO

*Cincinnati—The Cincinnati College of Embalming*.—A private day school for men and women over 18 years of age. High-school education required for entrance. Courses to prepare for service in funeral management and embalming, meeting the requirements of the conference of embalmers and funeral directors examining boards of the United States. Combined courses include the sciences basically related to embalming, e. g., bacteriology, chemistry, anatomy, histology, pathology, the art of modeling plastic materials for the restoration of destroyed or mutilated features; the principles of embalming; applied embalming; applied restorative art; mortuary law; mortuary music; professional and general ethics. Courses are three in number—2-quarter course of 26 weeks, at \$450; 3-quarter course of 9 months, at \$585; and 4-quarter course of 12 months, at \$710. Thirty-seven and one-half hours of scheduled lectures, recitations, laboratory, and studio periods per week. Cost figures include all necessary books and materials, but not living expenses. Living expenses as of September 1934, from \$7 to \$10 per week.

*Cincinnati—Colored Industrial School*.—A private nonsectarian school for boys and girls and men and women who

<sup>2</sup> See footnote p 13, for complete list of the Moler System of Colleges.

have passed the eighth grade. The school has an endowment of \$400,000. Tuition is \$5 for session of 10 months or for any part of same. Four-year courses are offered in automobile mechanics, commercial branches, cooking, furniture repairing, sewing, shoe repairing, tailoring, and general woodwork. Evening courses, 6 months, 3 days a week; 2-year part-time courses, 5 days a week, 36 weeks.

*Cincinnati—Moler System of Colleges,*<sup>2</sup> 111 West Fifth Street.—For barbers.

*Cincinnati—Ohio Mechanics Institute,* Central Parkway and Walnut Street.—Founded in 1828. In general the day classes include 2-year intensive courses in engineering and applied art, 4-year technical high-school courses, and 2-year trade courses.—A few special courses are offered. In many of the studios and shops qualified students may enter at any time. Courses offered: 2-year intensive courses in industrial mechanical engineering, industrial electrical engineering, and commercial art. Applicants should be 17 years of age, with 4 years of high-school preparation. Tuition fee per year, \$110. Two-year power laundry cooperative course: Students work in a commercial plant for wages 4 weeks out of every 8. Applicants should be at least 18 years of age and have 3 or more years of high-school preparation. Tuition fee per year of 9 months, \$300. Technical high-school courses. Admission by transfer of credits from other schools. Four-year courses preparatory to the following industries, including 2 hours of practical work each day: Architecture, electrical industries, commercial art, mechanical industries, printing. Tuition fee, \$90 per year. Linotype operation, 4½ months, \$100. Two-year trade courses in pattern making, printing, machine-shop work, and woodwork. Tuition fee, \$45 per term of 18 weeks. The evening school offers 4-year preparatory courses for workers in electrical industries, mechanical industries, architectural drafting, mechanical drafting, chemistry, and civil engineering. Special courses are also offered in a great variety of vocational subjects.

*Cleveland—Central Institute,* 5200 Euclid Avenue.—Four-year evening courses are offered in mechanical, architectural,

<sup>2</sup> See footnote, p. 13, for complete list of the Moler System of Colleges.



and structural drafting, 9 weekly 60-minute periods, 50 weeks per year. Tuition fee, \$81.

*Cleveland—Fenn College.*—In its day cooperative division, which has more than 500 students, Fenn offers nothing except work on the collegiate level. It has an evening preparatory school accredited by the North Central Association to offer high-school courses. The evening division offers unit technical courses in applied electricity, radio construction and telegraphy, structural drafting, machine design, blueprint reading, shop mathematics, trigonometry, steam engine, and Diesel engines.

*Cleveland—McSweeney Trade Schools, Inc.,* 1815 East Twenty-fourth Street. (Also at 1729 McGee Street, Kansas City, Mo.).—Auto mechanics, auto electricity, and battery expert courses. Tuition, \$195. The schools pay the students' bus fare to Cleveland or Kansas City and agree to give them enough part-time work to pay 8 weeks' board and room, which is the time required by the average student to complete the course.

*Cleveland—The Moler System of Colleges,*<sup>2</sup> 748 Prospect Street.—For barbers.

*Columbus—Franklin University of the Y. M. C. A. of Columbus, Ohio.*—The Franklin University Trade School is now offering courses in two trades, auto mechanics and welding (both oxy-acetylene and electric). Enrollment in the auto mechanics course is limited to six students in order to provide for individual instruction. The head mechanic of the university garage is the instructor. The fee for this course is \$80 payable over a period of 6 months, which is the duration of the course. The boys attend school from 8:30 a. m. until 5 p. m., 5 days a week. The course includes classroom work, laboratory work, and practical experience in the garage. The welding course is divided into two groups. One group meets from 3 to 6 in the afternoon and the other from 7 to 10 in the evening on Monday, Wednesday, and Friday of each week, for a period of 8 weeks. The period of instruction covers 72 hours. Tuition, \$60. The instructor is a welding foreman of a prominent industrial plant.

<sup>2</sup> See footnote, p. 13, for complete list of the Moler System of Colleges.

*Van Wert—The Marsh Foundation School.*—A privately endowed school, and home for "orphans and children similarly situated." It is limited to northwestern Ohio, which means north and west of Columbus. There is no tuition. Board, clothes, and all living expenses are paid by the Foundation. The school has about \$1,500,000 in buildings and equipment, with about \$5,000,000 as endowment. In 1934 there were about 96 pupils in the school. There are 8 grades of elementary school work, and vocational work through the high-school grades. Academic work is taken in the city high school, while the Marsh School furnishes vocational work for about 54 high-school boys who live in the town. The boys have 4 years of automobile mechanics, cabinetmaking, and vocational agriculture. The girls have training for maid service and nursing.

*Wilberforce—Wilberforce University.*—Combined normal and industrial department. A State-aided boarding school for Negro boys and girls over 14 years of age. Tuition fee, \$25 per quarter; room rent, \$20 per quarter; other fees, \$18.50. Four-year courses, 36 weeks per year; 2 weekly 115-minute periods are offered in sewing, millinery, cookery, printing, shoemaking, auto mechanics, carpentry, blacksmithing, electric wiring, plumbing; also general trades courses in each of the above subjects are offered 4 to 8 periods a week, 4 years.

*Willoughby—Andrews School for Girls, Mentor Avenue.*—A private boarding school for white girls of high type morally, mentally, and physically. Entrance age, 10 to 16 years, both inclusive. Grades 7 to 12. The school has an endowment of \$4,400,000 and a farm of approximately 300 acres. Cost of room and board \$3 per week. Incidental fees \$4 per year. No tuition charge. Andrews School for Girls is a vocational school accredited as a first-grade school by the State department of education. School year, 38 weeks. At the beginning of the tenth grade the girls begin to major in one of the following vocations: Business, foods, clothing, or art. Courses in English, social science, mathematics, and science are required. Students must be employed for a period of 6 months in their chosen vocation after completing their courses at school before they receive their diplomas.



## OKLAHOMA

*Oklahoma City—Oklahoma City Barber College*, 104 West California Street.—Individual instruction for young men and women. Opportunity is given to practice at once.

## OREGON

*Portland—L. L. Adcox Trade School*, 237 Northeast Broadway.—Courses are offered in auto, electrics, gas engine, and Diesel engine. Tuition fee, \$85 to \$380, according to course. Length of courses from 2 to 8 months.

*Portland—Moler System of Colleges*,<sup>2</sup> 227 Southwest Third Avenue.—For barbers.

*Portland—Oregon Institute of Technology*, 831 Southwest Sixth Avenue.—Technical trades school, including automotive mechanics, aviation mechanics, Diesel engines, machine-shop training, radiotelegraphy, radiotelephony, and radio service; 4-year professional courses in mechanical, civil, and electrical engineering leading to a bachelor of science degree; junior college of liberal arts (2 years); college-preparatory school; business school; evening school of business administration and accountancy. Both day and evening sessions are offered in most of the above schools and colleges.

## PENNSYLVANIA

*Ambler—School of Horticulture for Women*.—A private school offering a 2-year diploma course in horticulture, including floriculture, fruit growing, vegetable gardening, farm animals, etc. Also offers a preparatory course for professional study in landscape architecture. Entrance requirement, high-school diploma or entrance examination. Tuition fee for the full year of 37 weeks, \$350 (diploma course); \$400 (preparatory course); board and room for the year \$450; additional fees, about \$75.

*Cambridge Springs—Alliance College*.—A private, boarding school for boys maintained by the Polish National Alliance of North America with headquarters in Chicago. Every member of the Alliance is assessed 5 cents monthly for the support of Alliance College. The total sum of these assess-

<sup>2</sup> See footnote, p. 13, for complete list of the Moler System of Colleges.

ments amounts to approximately \$120,000 a year. Buildings and equipment utilized for technical instruction are valued at approximately \$90,000. Students are almost without exception of Polish-American extraction. Enrollment (1934-35) 76; 5 full-time and 2 part-time instructors. Tuition for 1 year, \$250. This covers board, room, laundry, athletic and medical examination fees. Courses offered: 4-year technical high-school course and 2-year trade courses in applied electricity, automobile construction, machine and tool design (drafting), tool and die making, radio and refrigeration. Students taking the 2-year trade school courses are usually at least elementary school graduates.

*Downington—Downington Industrial and Agricultural School.*—A private nonsectarian State-aided trade school for Negro boys and girls 12 years of age and over of junior and senior high school classification. Each student, when applying, must signify his choice of a trade, although actual specialization begins in the ninth grade. Each student spends one half of his time in prevocational or vocational trade courses according to grade. Also every student is required to perform a maximum of 2 hours of work a day in part payment of his fees. The monthly charge is \$16 for Pennsylvania students. There is a tuition fee of \$5 per month for those who are not residents of Pennsylvania. A matriculation fee of \$5 for new students and an annual fee of \$5 for all students to cover use of books and other equipment and an annual athletic fee of \$5 are additional expenses. The trade courses include 4 years of work each in home economics, carpentry, and auto mechanics. The year embraces 36 weeks and 20 weekly 45-minute periods. Three years of mechanical drawing, coming four periods per week, are included in both the carpentry and auto mechanics courses. In addition, forging and welding are a part of the latter courses. The work in home economics is of a general nature, including cooking, sewing, laundry, home management, etc.

*Elizabethtown—Thomas Ranken Patton Masonic Institution for Boys.*—A private boarding school for Pennsylvania boys 15 to 18 years of age who have finished the eighth grade. The school owns 116 acres of land and has an endowment of \$1,500,000. It operates as a 4-year high school for 40 weeks during the year. Three-year courses are offered, 5 weekly



240-minute periods, in machine shop, bricklaying, and carpentering.

*Farm School—The National Farm School.*—A private boarding school receiving State aid. It gives a 3-year course in agriculture and students remain at the school 12 months in the year, receiving 1 month's vacation at different intervals. Both practical and theoretical agriculture are taught. The school has 1,100 acres of land, and one half of the student's time is spent doing practical work and the other half theoretical work. The school plant is worth about \$1,000,000. It is nonsectarian, although a large part of its support comes from Jewish people. Enrollment, 190; instructors, 20. There is a nominal charge of \$100 per year, for which the student receives board, room, books, and education.

*Freeland—Mining and Mechanical Institute.*—A private day and night school for men of the anthracite coal region. Endowment, \$200,000. Day school enrollment, 110; night enrollment, 40. Grammar-school education is required for entrance in day school. No restrictions for night school. Tuition fee for day school, \$5 a month; night, \$1.50 a month. Length of school year, 40 weeks. Manual training: Woodworking, 4 years, 8 weekly 45-minute periods; mechanical drafting, 2 years, 4 weekly 45-minute periods free-hand drawing, 1 year, two 45-minute periods weekly.

*Glen Loch—Farm School (Chester County).*—A private boarding school operated by the Episcopal Church for white orphan boys 10 to 14 years entrance age. The school owns 325 acres of land and has an endowment of \$250,000. The yearly contribution of the church to the school is about \$20,000. Enrollment, 100. Industrial courses are offered combined with academic work, 4 years, 18 hours weekly, 43 weeks per year, in carpentry, painting, machine-shop practice, and general farm work; horticulture, 14 weeks per year; plumbing and electrical work, 4 years, 12 hours weekly, 21 weeks per year for plumbing, and 11 weeks for electrical work.

*Hershey—The Hershey Industrial School.*—A privately endowed institution for poor white boys who have lost one or both parents by death. These boys must be physically sound and of normal mentality, and lacking relatives able

to bear the expense and responsibility of their rearing. For those it accepts as students, the school gratuitously provides maintenance, training, and education while they remain within its charge. The school is permitted to admit boys ranging from 4 to 15 years of age, but present provision is mainly for boys over 11, and only an occasional one under 6 can be accommodated. Preference in admission is given, first, to boys born in the counties of Dauphin, Lancaster, and Lebanon; second, to boys born elsewhere in Pennsylvania; and, third, to boys born in other parts of the United States. The school provides a 12-year course of study based on the requirements of the Pennsylvania Department of Education. It offers college-preparatory, scientific, commercial, and the various vocational branches of study and practice. Agriculture and horticulture are included and all boys above 12 years of age gain some first-hand knowledge of both in their daily life on the farms. Enrollment, 1,500. Instructors, 44.

*Hoban Heights—St. Michael's Industrial School.*—A private school and orphanage supported by the Catholic Charities of Scranton, limited in enrollment to the Scranton Diocese which consists of 11 counties. Value of school plant, approximately \$500,000. Average enrollment, 225; instructors, 10; tuition fees are paid by poor boards. Offers elementary and secondary instruction, including the following among its trade courses: Automobile mechanic, woodworking and carpentry; plumbing, drafting, baking, cooking, music.

*Lancaster—Bowman Technical (Horological) School.*—A private day school offering courses in watchmaking, engraving, and jewelry work. Each trade is taught separately. Individual instruction. The length of course depends on previous mechanical experience and natural talent. Special courses for experienced men may require from a week or two to 6 months. Tuition fee, \$22 per month.

*Lancaster—Thaddeus Stevens Industrial School of Pennsylvania.*—Boys between 16 and 18 years of age may be admitted. Preference is given to orphans or half orphans. All applicants must have good health and be able to pass the entrance requirements. The school charges no tuition, board, nor other fees to regularly enrolled students. Vocational



courses are given in bricklaying, carpentry, electrical work, machine-shop practice, pattern making, related and non-vocational subjects.

*Old Concord—Institute of Practical Arts.*—An interdenominational institution, chartered as a public charity under the laws of Pennsylvania, for the "education, moral, religious, cultural, and practical, of immigrants and their children, and others." It is a boarding school but admits a few day students. The endowment is all in real estate, comprising 370 acres of good farm land upon which there are 5 producing oil wells and possibilities for more, and 800 acres of good coal lands. Present enrollment (1935) 60 boys, girls having been temporarily eliminated because of financial stress. Charges run about \$1 per day. Boys of teen age who can earn part of their tuition are preferred. Besides the usual elementary and secondary academic subjects, the courses include household arts, practical agriculture, and shop work in carpentry and auto mechanics.

*Philadelphia—Berean Manual Training and Industrial School*, 1926 South College Avenue.—A State-aided nonsectarian day and evening school for Negro boys and girls. No educational requirements for evening trade school. Junior high, or its equivalent, required for admission to day school. Evening tuition, \$40. Day tuition, \$80. Instruction in tailoring, upholstery, plumbing, applied electricity, dressmaking, crocheting, millinery, alterations, secretarial and business school, civil service preparation, typewriting, filing, switchboard operating, office practice, adult education, and leisure-time activities. Founded 1899.

*Philadelphia—Girard College*, Girard Avenue, west of Twentieth Street.—Girard College, for the education of white orphan boys of Pennsylvania, is composed of 3 schools, a primary school, a grammar school of 3 years, and a high school of 5 years. Endowment, \$87,000,000, exclusive of plant, with campus of 40 acres. The boys are required to assist in the maintenance of the grounds and buildings. The present normal capacity of the college is 1,730 pupils. Entrance age, 6 to 10 years. To complete the full course requires 11 years. Military training is given all boys above 14 years of age. The college cares for the boy in every

particular. In the mechanical school preparation is given for the following pursuits: Trade drawing, carpentry, pattern making, machine-shop practice, electrical construction, foundry, forge practice, printing, painting, and auto-mechanics. Instruction is given 2½ years, two to four 60-minute periods a week. Prevocational, 3 years, four to eight 45-minute periods a week; trade, sixteen to twenty 45-minute periods weekly.

*Philadelphia—McCarrie School of Mechanical Dentistry*, 207 North Broad Street.—This school offers 4 to 6 months' day courses in dental laboratory work, including construction of all kinds of vulcanite and metal base plates and patented attachments. Night courses, 8 to 12 months.

*Philadelphia—Moore Institute of Art, Science, and Industry*, merged with *Philadelphia School of Design for Women*, Broad and Master Streets.—Day and evening classes in practical design, teacher training, illustration, advertising art, lettering and poster, interior decoration, fashion illustration, costume design, portrait painting, full-length life and antique, oil and water color painting, modeling and anatomy, elementary pottery, history of art and ornament, psychology and education, general science, jewelry and metal work, English, French and history, puppetry, and stage design. Students are not admitted under the age of 16 except in the Saturday morning class. A high-school education is desirable, and absolutely essential for those preparing for teaching in the Philadelphia public schools. Students of the first-year classes, who reside beyond commuting distance, and who are unable to reside with near relatives (uncle or aunt) are required to live in residence houses furnished by the school. Tuition for any scheduled or special course, \$200 per year; matriculation fee, \$5. Lecture courses and Saturday morning classes at varying rates. Evening classes \$20 to \$35 depending upon course.

*Philadelphia—The Pennsylvania Museum of Art*, Broad and Pine Streets.—Includes two schools, *School of Industrial Art* and *Philadelphia Textile School*.

*School of Industrial Art* is a day and evening school, for students over 16 years of age. Courses 1 to 4 years in length are offered. Four-year day courses leading to diploma.



Day courses in advertising design, costume design, interior and furniture design, illustration, pictorial expression, teacher training, woodworking, wrought iron, pottery, jewelry and metal work, architectural drawing and design. Tuition fee, \$250 per year. Evening school 1, 2, or 3 nights a week, 2-hour periods. Tuition fee, \$45 for 6-month term. Partial courses may be taken by special arrangement. Saturday morning classes for juniors. A 5-year B. A. degree course is offered to properly qualified students, in coordination with the University of Pennsylvania.

*Philadelphia Textile School* is a day and evening school for men over 18 years of age. Day courses of 2 and 3 years are offered, leading to certificate and diploma. Candidates for diploma present high-school diploma or equivalent. The diploma of the school is awarded to students of the 3-year regular textile day course and the 3-year chemistry, dyeing and printing day course. Two-year courses are offered in cotton, wool and worsted, silk, and figured design. Courses include preparation of raw stocks, yarn manufacturing, designing, analysis, weaving, knitting, chemistry, and dyeing. Day tuition and other fees, \$315 a year. Evening school, 6-month term, 1, 2, or 3 nights a week, 2-hour periods, \$15 for one subject, \$45 for the full term.

*Philadelphia—Philadelphia Textile School.*—(Included in the Pennsylvania Museum of Art.)

*Philadelphia—School of Industrial Art.*—(Included in the Pennsylvania Museum of Art.)

*Philadelphia—Philadelphia College of Horology*, 1344 West Somerset Street.—A day and night school open all the year for men and women over 16 years. One year of high-school education is required for entrance. The school offers 1- to 3-year courses in watch-making and repairing, five 8-hour periods per week, 51 weeks per year; also 3 to 6 months' courses, 5 weekly 8-hour periods in clock repairing, engraving, jewelry manufacturing and repairing. Tuition fee, \$25 a month; cost of tools, etc., for 6 months' course, about \$50.

*Philadelphia—Philadelphia School of Wireless Telegraphy*, 1533 Pine Street.—This is a private institution offering courses in radio operating and radio and refrigeration service. The first-named course prepares the student for commercial



operating, marine and aerial, operation of broadcast stations, and gives a fundamental knowledge of television as developed to date. The latter course fits the student for servicing and repairing radios and electrical refrigerators. The school plant is valued at approximately \$5,000, maintains 3 instructors and has an evening enrollment of 50 students and a day enrollment of 10 students. Tuition fees: Radio operating, code, broadcasting, \$150 (9 months, day school; 1 year, evening school); radio service and refrigeration, \$75 (3 months, day school; 6 months, evening school); operating and service, \$200 (1 year, day school; 1½ years, evening school); refrigeration only, \$35 (10 hours); code only, monthly rate, day \$20, evening \$12 (time required depends on student).

*Philadelphia—Spring Garden Institute*, northeast corner Broad and Spring Garden Streets.—Day and evening classes for boys and girls over 16 years of age in: Algebra, alternating-current mathematics, architectural drawing, arithmetic, art, automobile, costume design, dressmaking, electricity, electrical construction, free-hand drawing, geometry, home education, home management, illustration, interior decoration, life class, lubrication, machine-shop mathematics, machine-shop practice, mechanical drawing, millinery, petroleum refining, plan reading and estimating, still life, slide rule, strength of materials, trigonometry. Tuition varies with courses from \$5 to \$250. Courses vary in length from short-unit courses to 3-year courses.

*Philadelphia—School of Home Economics and Commerce*, Walnut and Twenty-third Streets.—Day classes from September to June; evening classes, September to April; summer classes 6 weeks commencing July 5. Courses include home economics, costume design, domestic science, dressmaking, interior decoration, millinery, commercial and secretarial subjects, engraving, watch repairing, commercial art, sketching, show-card writing, lettering and sign painting. Tuition charges vary with courses from \$12 to \$250.

*Pittsburgh—Pittsburgh School of Trades*, 405 Penn Avenue.—Operating also under the name of Pittsburgh School of Automobile Engineering. Day, evening, and Saturday classes are offered in aviation, refrigeration, radio, welding, and automobile. The courses range in length from a few



weeks to 18 months. Tuition fees vary with the different courses, ranging from \$20 to more than \$500.

*Pittsburgh—Westinghouse Technical Night School, East Pittsburgh.*—The school offers evening training for employed men and women. It is sponsored by the Westinghouse Electric & Manufacturing Co., and the Westinghouse Air Brake Co., with enrollment open also to nonemployees. The engineering department gives 4 years' training in the fundamentals of either electrical or mechanical engineering. The accounting department gives a 4-year course in accountancy and related subjects. The commercial department offers secretarial and office machines courses. The preparatory department gives essential high-school subjects to those applicants who have had less than the 2 years of high-school training required for the other departments. Students attend 3 nights per week, 2 to 3 hours per night. Tuition fees range from \$19 in the commercial department to \$26 in the engineering department per term of 16 weeks.

*Scranton—Johnson School, Richmond Hill.*—A privately endowed day school of useful arts and trades for girls and boys of Scranton and Lackawanna Counties. The school is situated on a tract of 65 acres within the city limits. Girls and boys over 14 years of age are eligible, but in granting admission, preference is given to those who are 16 years of age. The school day is divided so that approximately one-half of the time is given to trade work and the remainder to related academic work and trade drawing. Tuition, books, and supplies are furnished without cost to the student. Three-year courses are available in household arts and science, machine shop practice, and carpentry and cabinet-making. The length of the school year is 40 weeks, with forty 45-minute periods per week.

*Williamson School—The Williamson Free School of Mechanical Trades.*—The school was founded by Isaiah V. Williamson for the purpose of giving poor and deserving boys a good English education; training them in habits of morality, economy, and industry; and teaching them trades. No students are received who are under 16 or over 18 years of age. Entrance examinations are comparable with eighth-grade work. Only natives of the United States are eligible for



admission, and no one will be accepted who is not able-bodied, intelligent, healthy, and possessed of natural aptitude and liking for mechanical work. Candidates to be successful must also be of good moral character and sufficiently educated to readily enter on the school work. Preference in admission will be made in the following order: To those born in the city of Philadelphia; to those born in Bucks County, Pa.; to those born in Montgomery and Delaware Counties, Pa.; to those born elsewhere in Pennsylvania; to those born in New Jersey; to those born elsewhere in the United States. In addition to academic subjects the following trades are taught, selection being made by the trustees: Brick-masonry, carpentering, machinist, power-plant operating, wood pattern-making. Also the student is given instruction in mechanical (or architectural) and free-hand drawing tending to the general direction of his particular trade.

*Wyomissing—The Wyomissing Polytechnic Institute.*—The institute, founded in 1927, is an incorporated school with two departments, the cooperative department, and the junior engineering department. The curriculum of the former is of post high-school grade, yet below the college level. Students of the department, numbering 96, are being trained for industry (mainly in the metal trades) in which they are already employed, alternating every 4 weeks, 44 weeks of the year, between their shops and the institute. The alternation continues for 2½ years whereupon the student remains in industry. His theoretical training closely follows that recommended by the Board of Investigation and Coordination of the Society for the Promotion of Engineering Education in their report, "A Study of Technical Institutes." For this work the school grants its certificate of industrial mechanical engineering. The curriculum of the junior engineering department, designed and begun in 1933, parallels and, in fact, exceeds the curriculum of the first 2 years in schools of mechanical engineering. It requires 2 years of study for completion when the student is well prepared to enter the junior class of an engineering college. Present enrollment in this department is 28, creating a total enrollment for the institution of 124. There is a faculty of 8, soon to be increased to 9 or 10. The institute also conducts an evening school, the curriculum of which is very flexible.



Students are charged a tuition fee of \$150 per year, which, in the case of cooperating students, is often paid by employers. In addition, students pay a matriculation fee of \$5 and a laboratory fee of \$5 per term. Books and supplies are purchased by students. All operating deficits of the institute are paid by the Wyomissing Foundation, a corporation set up by the founders of the school, Mr. Henry Janssen and Mr. Ferdinane Thun, for dispensing funds for philanthropic purposes.

## RHODE ISLAND

*West Barrington—St. Andrews Industrial School.*—A Protestant Episcopal boarding school for underprivileged boys. Endowment, \$500,000. The plant consists of 80 acres of land and 3 homes for boys, having a capacity of 62. Boys are admitted as young as 8 years and kept until the age of 16. Tuition fee, \$150 annually. Industrial work is provided by the farm, carpentry shop, laundry, and care of grounds.

## SOUTH CAROLINA

*Aiken—Schofield Normal and Industrial School.*—A non-sectarian boarding and day school for Negro boys and girls. Enrollment, about 300. Besides the normal and high school, an industrial department is maintained. All the boarding students are required to take a course in one of the industries. Four-year courses are offered in agriculture, carpentry, blacksmithing and wheelwrighting, auto mechanics, and harness making, and home economics for girls. Fee for tuition and board for girls, \$10 a month; boys, \$11 a month.

*Denmark—Voorhees Normal and Industrial School.*—A day and boarding academic and trade school for Negro boys and girls over 14 years of age and able to enter seventh grade. The school owns 400 acres of land. The valuation of the property including the endowment fund is \$263,476.21. The work school is intended for those who are not able to pay. In the department of mechanical industries, for boys 16 years of age, 3-year courses are given in carpentry, brickmasonry, blacksmithing and wheelwrighting, and some fundamentals in plumbing, steamfitting, and electrical work. Board is \$12.50 per month. Entrance fee \$25 in the junior college and \$20 in the seventh grade and high school. The work

system is on the half-day basis—a student works half a day and goes to school half a day. The night school has been discontinued. The regular study-hour period of 2 hours per evening is continued. The school is under the direction of the Episcopal Church and the American Church Institute for Negroes, with headquarters at 281 Fourth Avenue, New York City. Accommodations for 100 young women and 125 young men. Average enrollment 650, about equally divided between young men and young women.

*Mount Pleasant—Laing Industrial School.*—An academic and industrial school maintained largely by the Pennsylvania Abolition Society, trustee for the Laing School, for Negro boys and girls. Endowment, \$33,244.86. Regular courses are given the girls in sewing and cooking. The boys are given training in simple woodworking and cobbling.

*Spartanburg—J. R. Queen Barber College,* 112 Magnolia Street.—Six-week courses, 8 hours a day, are offered white students. Tuition fee, \$35.

*St. Helena Island—Penn Normal and Agricultural School,* Frogmore Post Office.—A day and boarding school for Negro boys and girls. Enrollment, about 270. Farming is the most important part of the curriculum, but courses are also given in carpentry, blacksmithing and wheelwrighting, cobbling and harness making, basketry, machine repairs, and home economics. The shops serve the community in the making of native baskets, cobbling shoes, making harness, building homes, repairing furniture, making and repairing carts and wagons, shoeing horses and mules, and repairing automobiles.

#### TENNESSEE

*Crossville—Cumberland Mountain School.*—A boarding school maintained by the Methodist Church for the white boys and girls of the Cumberland Plateau. The school owns a farm of 430 acres and has an endowment of \$62,000. Entrance age, 14; completion of eighth grade required. Board, \$15 a month; other small fees required. All students are required to work 2 hours a day on the farm or about the buildings. More is required of those who cannot pay board. A 2-year course is given in farm mechanics, five 90-minute periods a week, for 36 weeks per year.



*Fountain Head—Fountain Head Industrial School.*—A boarding school for white boys and girls maintained by the Seventh-Day Adventists. The school owns a farm of 300 acres. Cost of room, board, and other charges, \$26 per month. Required work about the farm, 12 hours a week. Many students work their entire expenses. Students remain during the summer. Three-year courses, 36 weeks per year are given, five 45-minute periods weekly in woodwork. Practically everything for a building is made.

*Memphis—Moler System of Colleges,*<sup>2</sup> 81 South Second Street.—For barbers.

*Morristown—Morristown Normal and Industrial College.*—Morristown Normal and Industrial College is a 4-year accredited high school and a 2-year junior college for Negro boys and girls, under the auspices of the Methodist Episcopal Church. The campus consists of 70 acres. The college farm consists of 300 acres. The enrollment in the high school and junior college is 120. Students of good character are admitted to either the high-school or college departments without reference to age, residence, or religion. Tuition per term of 3 months is \$15. Board and room are \$15 per month. General fee paid by all boarding students is \$5 per quarter. Completion of the eighth grade or its equivalent is required for entrance in the high-school department. Two years are given in woodworking, printing, and auto mechanics. For admission to the junior college, 15 units of accredited high-school work are required.

*Nashville—Watkins Institute Free School,* Sixth Avenue and Church Street.—A free day and night school for white boys and girls not eligible to city public schools. Endowment, \$1,000,000. Minimum entrance age to trade school, working students over 16 years. No maximum age limit is imposed. Two-year courses are offered in mechanical drawing, shop mathematics, elements of electricity, and trade dressmaking, fancy cooking, and commercial art.

*Nashville—The Southern School of Printing,* 1514-16 South Street.—The school is incorporated under the State laws of Tennessee and is exempted from the payment of any State, local, or Federal taxes. Tuition rate, \$15 per month. It

<sup>2</sup> See footnote, p. 13, for complete list of the Moler System of Colleges.

is supported in a large measure by direct contributions from the American Newspaper Publishers Association, the Southern Newspaper Publishers Association, and direct contributions from individual, book, job, and commercial employing printers. The tuition paid will not pay more than 25 percent of the cost of operations of the school. It has a small endowment. It owns its own building, worth, approximately, \$30,000. Its equipment is modern in every respect and valued at about \$250,000. The school is for white pupils only; a day school. At present the enrollment is 32 pupils. There is a definite limit at any one time of 50 students. It has three instructors and the school gives an elementary and secondary course in the mechanics of printing.

*Pleasant Hill—Pleasant Hill Academy.*—A boarding and day school for white boys and girls over 15 years of age from the southern mountains, under the auspices of the Congregational Church, from which the school receives \$20,000 to \$25,000 annually. The school owns a farm of 175 acres, and receives State and county aid of \$3,000 a year. Enrollment, 225. Twenty-three members on staff. Cost to the student for 9 months, \$162. All the work on the farm and about the institution is done by the students. Ten hours of work a week are required of all students. Manual-training courses are offered, 5 weekly 90-minute periods, 36 weeks per year; 2 years. Home economics, 5 weekly 90-minute periods per year. Vocational agriculture, 5 weekly 90-minute periods per year; 4 years. Industrial art and wood carving, 5 weekly 90-minute periods per year; 2 years.

## TEXAS

*Dallas—Moler System of Colleges.*<sup>2</sup>—For barbers. Branch at Houston.

*San Antonio—St. Philip's Junior College and Vocational Institute.*—A private boarding school for Negro girls and boys, operated by the Protestant Episcopal Church. Financial aid is received from personal contributions, Diocese of West Texas, the local board of education, and the John F. Slater Fund. Tuition fee, \$15 per month. Required work of students, cooking, sewing, tailoring, gardening, and basketry.

<sup>1</sup> See footnote, p. 13, for complete list of the Moler System of Colleges.



## UTAH

*Salt Lake City—Moler Barber School*, 118 Regent Street.—Enrollment, 26. The school is open to men or women over 16½ years of age, having completed the eighth grade. Tuition fee, \$135. Training over a period of 26 weeks as a minimum.

## VIRGINIA

*Bris—Blue Ridge Industrial School*.—A private boarding school for white mountain boys and girls. The school owns 650 acres of land, and is maintained by private subscriptions and appropriations from the Episcopal Diocese of Virginia. Enrollment, 215. Students do the work about the institution. Charge for room, board, and tuition is \$12 per month. The school year is 36 weeks in length. Four-year courses are offered in agriculture and home economics, 5 weekly 90-minute periods. Handicraft, 5 weekly 45-minute periods. Manual arts, 5 weekly 135-minute periods. Commercial course, 5 weekly 135-minute periods. Summer courses are offered. Courses from primary through high school accredited by Virginia State board of education. Endowment, \$5,000. Value of plant, \$150,000.

*Covington—Boys' Home (Inc.)*, Alleghany County.—A private boarding home for white boys, maintained by the Episcopal Church. The boys are legal wards of the home. Entrance age, 5 to 16 years. The school owns a farm of 1,168 acres, has an endowment of about \$30,000, and an appropriation from the church of about \$5,000 annually. Work on the farm is required of students. Charges, including tuition fee, \$200 from Virginia boys and \$300 per year from others. Instruction is given in education through public high school; and vocational training in printing, carpentry, automobile repairs, steam laundry, dairying, and power-plant work (both steam and electricity).

*Hampton—Hampton Institute*.—An endowed private school for Negroes, under the control of 20 trustees. Faculty, 127 members. The school plant includes 984 acres and 153 buildings. Endowment, \$10,143,349.22. The school receives no State or county funds. The institute offers courses in trade work, high-school subjects, and some twenty-odd curricula on the college level. Total enrollment, 1933-34,

2,245. Minimum entrance requirement, 16 years of age and be prepared to begin work of high-school grade. Most of the work incidental to the upkeep of the plant is done by the students. The price of college tuition is \$150 per year; trade school, \$125; and work year, \$100; living expenses for the school year of 36 weeks, exclusive of clothing, fees, and books, amount to \$180. Scholarships are available. Military training is in charge of a commandant. The trade school offers technical and practical training in 13 unit-trade courses. A 4-year course is offered in each of the following trades: Automobile mechanics, bricklaying and plastering, cabinet-making, carpentry, electricity, forging and welding, machinist's trade, painting, sheet-metal work, steam fitting and plumbing, tailoring, and upholstery. Some evening work is offered, and the school has made provision for students who work part of the time to receive instruction at the various times they are not employed. In addition to other college courses, college work is offered in agriculture, building construction, business, education, home economics, library science, music, nursing, and trade teaching.

*Lawrenceville—St. Paul Normal and Industrial School.*—A private day and boarding school for Negro boys and girls over 13 years of age, maintained by the Episcopal Church and private donations. The school owns a farm of 1,600 acres, has an endowment of \$105,000, and receives both State and county aid. Completion of seventh grade is required for entrance as a boarder. Expenses to student, about \$200 a year. From the seventh grade up the following trades are taught one-half day a week throughout the year of 36 weeks, 3 years: Bricklaying, plastering, cabinet-making, machine-shop practice, painting, wheelwrighting, printing, and tailoring. The girls are taught dressmaking, plain sewing, millinery, and laundering. Trade students are required to attend evening school 2 hours each night and to remain at school 1 summer, the second.

*Rock Castle—St. Emma Industrial and Agricultural Institute.*—A Catholic trade school for Negro boys, under the direction of the Benedictine Fathers, incorporated under the laws of the State of Virginia, June 1917, and located on the James River 38 miles west of Richmond. The school owns 1,700 acres of land. Students of all religious denominations



are admitted. Applicants must be 14 years old, of sufficient weight and height for military training, of sound health and good moral character and must have completed the elementary grades. Students must furnish their own clothing and uniforms and pay a board and tuition fee of \$60 a year. The school offers a standard 4-year high-school course, and a 4-year course in the following: Agriculture, automobile mechanics, baking and cooking, blacksmithing and ironworking, carpentering, electrical work, machine-shop work, masonry and plastering, painting, plumbing and steam fitting, shoemaking, tailoring, upholstering and harness making, woodworking and cabinetmaking. Every cadet is required to take a trade with his high-school course. The students are all enrolled in the cadet corps, the companies of which form a battalion. Military discipline is maintained at all times.

*Richmond—Virginia Mechanics' Institute.*—An evening school for white students operated by a nonstock, nonprofit corporation chartered by the State of Virginia. It has practically no endowment. The school plant cost approximately \$235,000. Enrollment, 1933-34, 672; instructors, 44. Tuition fees by classes from \$7 to \$22.50 per class; matriculation fee, \$2.50. Courses offered: Automobile mechanic, electrical trade, machinist, plumbing, radio, welding, interior decoration, commercial design and illustration, chemistry, architectural drawing, civil engineering, electricity, mechanical drawing, mechanics and engineering, banking, accounting, and business administration.

#### WASHINGTON

*Seattle—Washington Technical Institute, the Young Men's Christian Association's Schools of Seattle, Fourth Avenue, Madison to Marion Streets.*—Day courses are offered for men in auto mechanics, auto electricity, Diesel engineering, aviation, radio, navigation, drafting, and commercial subjects. Length of courses, 18 to 32 weeks. Evening courses in auto mechanics, Diesel engineering, radio and commercial subjects. Time and fees vary according to course.

*Spokane—Moler Barber School, 405 Trent Avenue.*—Six-months course in barbering is offered. Tuition fee, \$150.

## WISCONSIN

*Milwaukee—Milwaukee School of Engineering*, 1020 North Broadway Street.—This institution is owned by a board of regents which is composed of Milwaukee's leading industrialists and business men. A regular 4-year curriculum in electrical engineering is offered in the College of Engineering. It also maintains a subcollegiate department. Semesters are each 5½ months long, making 11 months of school each year. Complete courses are offered which take from 1 to 8 semesters to complete. The industrial engineering course is 2 or 3 years; commercial electrical engineering, 1 or 2 years. Shorter practical courses include a 1-semester curriculum in refrigeration and air conditioning; another in master electrician; a 2 semester and a 1 semester in radio engineering; and special courses in electric arc welding. Welding, refrigeration, and practical electricity are also obtainable in the evening school, as well as complete ground courses in aeronautics. Tuition under the 4-year plan is \$250 for the 4 years; the 1-year course in commercial electrical engineering is \$365; and semester of refrigeration and air-conditioning, master electrician, and radio is \$245. Eighty percent of the out-of-town students do some work to earn part of their subsistence. Enrollment, 254; instructors, 23.

*Milwaukee—Moler System of Colleges*,<sup>2</sup> 839 North Water Street.—For barbers.

<sup>2</sup> See footnote, p. 13, for complete list of the Moler System of Colleges.



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## PART II: CORPORATION SCHOOLS

Industrial companies conducting occasional classes for special purposes are not included in this list of corporation schools. Many industrial companies conduct such classes for foremen and apprentices. The information collected on occasional training in plants indicates a decided tendency for industrial companies to cooperate with the public schools in providing apprentice training, consequently reducing the amount of educational work for apprentices carried on in industrial plants.

*American Locomotive Co.*, Schenectady, N. Y.—Carries on an apprentice program.

*American Rolling Mill Co.*, Middletown, Ohio.—Conducts a regular foreman's training course of its own, in addition to cooperating closely with State educational institutions in the preparation of special courses, such as blueprint reading, electricity, and foremen's conference work.

*Armstrong Cork Co.*, Lancaster, Pa.—Classes in general accounting, cost accounting, and budgeting. Enrollment, 119 employees.

*Brown and Sharpe Manufacturing Co.*, Providence, R. I.—Apprentice courses for machinist, drafting, patternmaking, molding, core making, and automatic screw-machine operating.

*Chrysler Corporation*, Detroit, Mich.—The Chrysler Institute of Engineering is incorporated under the laws of Michigan to issue diplomas and confer degrees from a high-school diploma to a doctor of engineering. Twice a year outstanding young men who have recently graduated from accredited colleges and universities of engineering are selected and brought into the graduate school. These men are paid \$125 a month and rotate in periods of from 1 to 4 months between the different engineering departments, where they are given the same projects to develop as any resident engineer of that department would be given. This is paralleled with a scholastic set-up starting at 3 o'clock in the afternoon, in

which the following subjects are carried: Advanced engineering, psychology, sociology, public speaking, commercial law, practical engineering mathematics, practical applied thermodynamics.

The undergraduate school for employees is a night school running 5 nights a week, in which the following accredited courses are offered: High school, college preparatory, full course in mechanical engineering, full course in commerce and finance, body drafting, mechanical drawing. No tuition is charged, and books are sold at cost. Enrollment in undergraduate school, 675.

*The Cleveland Twist Drill Co.*, Cleveland, Ohio.—A 4-year course is offered for the production of skilled machinists and toolmakers. Theoretical training 1 day a week. Courses of training for foremen, assistant foremen, and operatives, 1 night a week, during the 6 winter months are given; also a course of training for technical college graduates to develop them into executives or technicians.

*Collins & Aikman Corporation*, Fifty-first and Columbia Avenue, Philadelphia. (Makers of plush.)—A day school is maintained in which courses in certain textile occupations are given. This is supplemented by giving a large number of employees the opportunity to attend, at the corporation's expense, the Philadelphia Textile School, or evening schools at city institutions.

*Consolidated Gas Co. of New York* and its affiliated companies, 4 Irving Place, New York City.—Various training classes are conducted in connection with the different departments of the company and its affiliated companies. These classes are open only to employees of the companies.

*Davey Institute of Tree Surgery*.—The Davey Tree Expert Co., Kent, Ohio.—The enrollment is limited to a selected list of men who enter the company. Complete course consists of 3 terms of 15 weeks each. Each term runs from the first of December to the middle of March.

*Empire Oil & Refining Co.*—Bartlesville, Okla.—Training classes on foremanship and teaching are held. The foremen in turn give educational courses to employees in regular meetings, in which matters of general interest to the oil and gas industry as well as everyday operating problems are



discussed. Manuals on live subjects are prepared and distributed to employees. Instruction is also given in accident prevention and first aid.

*Ford Apprentice School*—Ford Motor Co., Dearborn, Mich.—Graduates of the Henry Ford Trade School who have become Ford employees and are specializing in some trade, and others who have shown exceptional ability, receive training in the apprentice school. A special foreman in the department moves them from one operation to another as fast as they master the work. During the first 2 years of this training period or until he finishes the course, the apprentice must attend 1 class each week in mechanical drawing and 1 in mathematics. These students do all their class work before or after working hours, and for it they receive no pay. It is from these trained men that the company recruits its foremen and specialty men.

In addition to the classes for apprentices, courses in electricity, steam engineering, metallurgy, and metallography are conducted for the benefit of those employees whose work makes information in these subjects helpful.

*General Electric Co.*, Schenectady, N. Y.—An apprentice course is offered to prepare high-school graduates for positions as machinists, tool and die makers and designers, draftsmen, and such other trades as may be necessary for future production. Duration of the course is 4 years. Compensation is provided during the entire course.

*General Motors Institute*, Flint, Mich. (formerly General Motors Institute of Technology.)—Courses offered: (1) General Motors cooperative training program, which provides a mechanical training with technical instruction closely related to practical plant operation. Young men of high-school or equivalent education are given the 2 years' basic training. Course is operated on a cooperative plan in which manufacturing divisions of General Motors Corporation participate. In cases where the record of the graduate of the 2-year basic training and the need of the division for men of broader technical training warrant, opportunity may be given for an additional 1 or 2 years of advanced training, also on the cooperative basis, in either industrial, plant, product, or service engineering. (2) A 2-year dealer cooperative



service training program is offered high-school graduates or other men with equivalent or advanced school training. These men cooperate with dealers in General Motors cars and receive training including, technical, mechanical, and practical phases of service. (3) Spare-time courses are offered in automotive mechanics, automotive electricity, automotive construction, and maintenance; several practical engineering courses; several trade courses in tool and die making; drawing and design, and the like; courses in accounting and office management; the industrial training department includes a large number of single-term courses covering almost every phase of the automobile industry. (4) The junior and senior executive training department offers courses in foremanship and management. Many of these courses are carried on in the plants located outside of Flint with members of the institute staff or specially trained men from the plant organization as acting conference leaders.

*Greenfield Tap & Die Corporation, Greenfield, Mass.*—Three-year courses are offered in which boys are trained to become toolmakers.

*R. Hoe & Co., One Hundred and Thirty-Eighth Street and East River, New York, N. Y. (Printing press and machine saw manufacturers.)*—Apprentice courses are given for machinists, wood pattern, electrical, and foundry work.

*Hookless Fastener Co., Meadville, Pa.*—All new employees go through a general training course, followed by instruction concerning their specific jobs. A night school is also maintained for interested members of the organization and particularly for the apprentice group. Subjects taught include shop arithmetic, algebra, mechanical drawing, trigonometry, mechanics, strength of materials, machine design, industrial organization and administration, and planning. These classes are given to the employees at the actual cost of instruction.

*Ingersoll Milling Machine Co., Rockford, Ill.*—This company offers courses for apprenticeships in drafting, pattern making, and machine-shop practice for a limited number.

*Interwoven Mills, Inc., Martinsburg, W. Va.*—Special classes for apprentice machinists and periodical classes for



foremen. The company is cooperating with the local board of education in installing a partial textile course in the local high school.

*Lakeside Press*, training department, Chicago, Ill.—Apprentice courses are given to boys who have completed a 4-year high-school course. The students are required to spend 5 hours weekly in the school, continuing their academic work. The regular apprenticeship is preceded by a short try-out and orientation course.

*Lincoln Telephone & Telegraph Co.*, Lincoln, Nebr.—During the year 1934-35 the courses offered by this company were: Communication uses of vacuum tubes, practical telephony, toll test-board operation and teletypewriter, electrical engineering, service and operation of common battery and automatic central office equipment, mechanical drafting, and blueprint interpretation.

*The Mead Corporation*, Kingsport, Tenn.—The course being given at this plant includes plant mathematics, the fundamentals of chemistry, and the application of mathematics and chemistry to pulp- and paper-mill operation.

*Mergenthaler Linotype Co. School*, 29 Ryerson Street, Brooklyn, N. Y.—A regular student must be either a purchaser or user of the linotype or a bona fide employee of a purchaser or user. The course is designed for 6 weeks. About one-third of the course is devoted to instruction on mechanism and two-thirds to keyboard instruction and practice operation.

*New York Shipbuilding Corporation*, Camden, N. J.—Two classes of apprenticeship courses are provided for applicants between the ages of 16 and 21 years: A 3-year course for high-school graduates and a 4-year course for grammar-school graduates. The training includes machinist, pipe fitting, templet making, electrical, pattern making, wood-working. There is also being operated a temporary training school to teach applicants all branches of welding work up to the point where they are able to pass the Government tests required to complete this varies from 100 to 170 hours.

*Norton Co.*, Worcester, Mass. (Makers of grinding wheels and grinding machines.)—One course is offered in apprentice training, 18 months in length. The completion of this course qualifies the apprentice for the rating of machinist.

*Oklahoma Gas & Electric Co.*, Oklahoma City, Okla.—This company operates a course known as "Plant operation and maintenance", which is offered at the major generating stations. Membership in it is voluntary, but it is always well patronized. It is conducted at each station by the "results" engineer. Content of the course covers general operation and routine care and maintenance of both boiler plant and prime mover plant, and consists of careful analysis of the complete plant where operated. Some attention is given to arithmetic and algebra, as required in certain phases of the course.

*Philadelphia Co.*, 435 Sixth Avenue, Pittsburgh, Pa.—This company (a public-service corporation) and its subsidiary companies assist their employees in a comprehensive educational program ranging from elementary grade-school subjects to graduate work in local universities, as well as special training courses to give employees the opportunity to learn more about the particular line of work in which they are engaged.

*Pratt & Whitney Co.*, Hartford, Conn.—A 3-year course is offered for machinists and a 4-year course for pattern-makers in conjunction with the Hartford Trade School. Applicants must be at least 16 years of age.

*The Wm. Schluderberg-T. J. Kurdle Co.*, 3800-3900 East Baltimore Street, Baltimore, Md. (Producers of meat products.)—This company offers a basic training course open to all employees, a scientific course, a foremanship training course, and a sales training course.

*Scovill Manufacturing Co.*, Waterbury, Conn.—Four-year course for toolmakers, 3-year course for machinists, 3- and 4-year courses for other skilled occupations peculiar to the industry, each 2,032 hours per year. Class work first 2 years in above courses in shop mathematics and slide rule manipulation, blueprint reading, steel alloys and allied



subjects, mills practice (nonferrous) including practical metallurgy (nonferrous). Classroom work during first year, 130 hours; second year 104 hours. Practical training at machine and bench during all years of each course.

*Singer Manufacturing Co.*, Elizabethport, N. J.—Courses in shop mathematics, mechanical drawing, and shop science are given regularly in evening school, intended primarily for apprentices in the mechanical trades but all factory employees are eligible to enroll. Short courses in English for foreigners and Americanization have also been given. Classes in plain sewing and dressmaking are held, intended to be of economic advantage to those women who wish to make their own garments.

*St. Johnsbury Vocational School* of the E. and T. Fairbanks Scale Co., St. Johnsbury, Vt.—Drafting, wood and metal pattern making, light and heavy machine tool operating, electrical repair-foundry work (iron, brass, and aluminum alloy). Related subjects: Mechanical drawing, strength of materials, machine-shop mathematics, electricity, vocational occupations, science. Four-year course of high-school grade. Registration 1934, 62.

*Standard Oil Co. of New Jersey*, 26 Broadway, New York, N. Y.—Offers courses for employees of the company at its Bayway Refinery, Linden, N. J.; Bayonne Refinery, Bayonne, N. J.; and at the Eagle Works, Jersey City, N. J. These programs are of a technical character, covering refinery process, plant utilities, petroleum products, refinery mathematics, and other subjects when there is sufficient demand. Foreman conferences are also conducted, and job training of all employees in the numerous operations, as well as courses for office employees on matters of office routine. Also a plan is in operation whereby a refund is made by the company of one-half of tuition and registration fees following the successful completion of a course or appropriate units thereof in an approved educational institution.

*Western Electric Co., Inc.*, 100 Central Avenue, Kearny, N. J.—Offers an apprentice course for millwrights and electricians requiring from 3 to 4 years for completion. The company also sponsors an evening school featuring cultural, recreational, and hobby courses, as well as technical training.

*Western Union Telegraph Co.*, 60 Hudson Street, New York, N. Y.—The company maintains a school at Bloomfield, N. J., in which new employees are trained for positions as clerks, office managers, and automatic printer operators. The courses generally require from 5 weeks to 3 months.

*Westinghouse Electric & Manufacturing Co.*, East Pittsburgh, Pa.—The industrial relations department of this company has prepared and issued certain extension courses available not only to its employees, but also to outside individuals and to schools, at the following prices: Circuit-breaking, no. 16, \$2; conduction of electricity in gases; no. 38, \$4; Electrical distribution, no. 18, \$2.50; history of W. E. & M. Co., no. 2, \$1.50 (story of the early development of alternating current); illumination, no. 11, \$2; induction motors, no. 3, \$1.50; industrial electronic tubes, no. 25, \$2.25; lightning protection, no. 8, \$1.10; manual of experiments with industrial electronic tubes, no. 26, 65 cents; metering of alternating current, no. 10, \$1.50; power-factor correction, no. 1, \$1; symmetrical components, no. 27, \$1.75; synchronous motors, no. 14, \$2.50; transformers, no. 4, \$2; industrial motor applications, issued as a series each complete in itself, covering the application of the electric drive to lines of tools used or produced by different industries. Those already printed are: Pumps, no. 28, 40 cents; metal-working machine tools, no. 29, 40 cents. Application for these courses should be made to Supervisor of Extension Courses, Industrial Relations Department, East Pittsburgh, Pa.

*Westinghouse Lamp Co.*, Bloomfield, N. J.—Courses offered: Machinist, maintenance, electrician. A limited number of applicants are accepted for training, who must be at least 16 years of age, 5 feet in height, and weigh not less than 110 pounds. Two years of high-school education are essential to satisfactory completion of the course. For those who have not had this, arrangements are made to attend an approved evening school.

*Weston Electrical Instrument Corporation*, Newark N. J.—A 1-year basic training course in the manufacture of electrical measuring apparatus is offered to technical graduates. This course is offered only to those men whom the company hopes



to interest permanently in the manufacture and sale of a highly technical product.

*Yale & Towne Manufacturing Co.*, Stamford, Conn.—The apprentice school offers 4-year courses in toolmaking, die-making, machine shop, metal patternmaking, electrical construction, mechanical drafting, and time-lock service. Each year consists of 2,000 hours and includes 160 hours of classroom instruction in related technical subjects.

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### PART III: CORRESPONDENCE SCHOOLS AND SCHOOLS OFFERING HOME-STUDY COURSES

*American School*, Drexel Avenue at East Fifty-eighth Street, Chicago, Ill.—Courses are offered in mechanical, electrical, architectural, automotive, civil, highway, and steam engineering; in a few specific lines of manufacture such as plumbing, heating, ventilating, and radio; and in Diesel engineering, air conditioning, electric refrigeration, and aviation. Other courses: College preparatory and general high school, business, accounting, and law.

*American Technical Society*, Drexel Avenue at Fifty-eighth Street, Chicago, Ill.—A home-study school which specializes in courses in business administration, electrical engineering, and automobile engineering. The course in business administration sells for \$49.80; electrical engineering, \$49.80; automobile engineering, \$34.80.

*Boeing School of Aeronautics*,<sup>3</sup> (a division of United Air Lines, Inc.), Oakland Airport, Oakland, Calif.—Home-study courses for individuals already engaged in the aviation industry.

*Joseph C. Branch Institute of Engineering*,<sup>1</sup> 3917 South Parkway Boulevard, Chicago, Ill.—Complete correspondence courses are offered in the English, Spanish, and Portuguese languages. A small residence school is maintained in Chicago for the enrollment of students from Latin countries. Correspondence courses in electrical engineering, junior course, \$50; senior, \$90; and advanced course, \$150; automotive engineering, \$70; mechanical engineering, \$125; civil engineering, \$200; electrical therapeutics, \$150.

*The Candler System Co.*, 6343 South Kedzie Avenue, Chicago, Ill.—Gives courses in scientific code instruction. A course for beginners in Continental Morse code, cash price, \$25; high-speed telegraphing, an advanced course for radio and Morse operators who desire greater speed and efficiency in telegraphing, \$25 cash.

<sup>1</sup> Resident courses listed in part I.



*Chicago Technical College*,<sup>3</sup> 118-132 East Twenty-sixth Street, Chicago, Ill. Home-study courses are available in the same subjects taught in college.

*Columbia Technical Institute, Inc.*,<sup>3</sup> 1319 F Street NW., Washington, D. C.—Practically all of the courses listed on page 14 of part I, for this school, are now available by correspondence home-study instruction to students in any part of the United States and in all foreign countries.

*Curtiss-Wright Technical Institute of Aeronautics*,<sup>3</sup> Grand Central Air Terminal, Glendale, Calif.—A home-study course in aeronautical drafting which requires 6 months to complete. \$125 Tuition, including complete set of all necessary drawing instruments.

*Diesel Power Engineering Schools*, 3320 Twentieth Street, San Francisco, Calif.—The Diesel home-training program includes all subjects in the regular day course. Cost of course, \$150—payable \$25 upon enrollment and \$10 per month with privilege of entering school upon completion of the home-training program for a 2-weeks' practical training, for which there is no additional charge (such training, however, to be given in rotation and as accommodation can be made for students). Further shop experience at the rate of \$12.50 per week. Approximate time for course, 8 to 10 months.

*Edison Electrical Schools*, Berkeley, Calif.—Home-study courses in radio engineering and in radio operating, each with a resident finish-up laboratory course. The price of either course, with the 30-day laboratory training period and transportation to and from Berkeley, Calif., is \$147.50. Each course includes 90 lessons and also contains 10 lessons on the subject of television engineering.

*Federal Schools, Inc.*, Federal Schools Building, Minneapolis, Minn.—Besides fundamental training in composition, color, drawing, and painting with various mediums necessary for any specialized work, the courses include instruction in specialties along commercial lines, such as design and decoration, figure and fashion drawing, lettering, illustrating for books, newspapers, magazines, and advertising, animal drawing, photo retouching, booklet and catalog construction,

<sup>3</sup> Resident courses listed in part I.

cover design, poster design, cartooning, card writing, and the various processes of reproduction in printing. Tuition, \$190.

*Ina Del Marvin School*, nineteenth floor, David Whitney Building, Detroit, Mich.—Cosmetic manufacturing by correspondence. Length of course, 6 weeks to 10 months. Admission requirements, any person writing an intelligent, readable letter. Minimum age, 18 years, preferably 21 years. Tuition, \$47.50 if paid in 10 monthly installments, \$37.50 if paid in full at beginning of course. Lessons sent each week for 10 weeks.

*International Correspondence Schools*, Scranton, Pa.—This name designates a group of 25 schools that offer a variety of courses in accountancy, business management, business law, advertising, salesmanship, show-card and sign lettering, art, artistic design, architecture and building, civil, structural, concrete, electrical, mechanical and steam engineering, mechanical drawing, coal mining, chemistry, gas engines, Diesel and other oil engines, foreign languages, navigation, aviation, plumbing, heating, ventilating, air conditioning, automobiles, radio, refrigeration, shop practice, foundry work, patternmaking, blueprint reading, telephones, telegraphs, railroad air brakes, locomotive operation, train operation, textile design and manufacture, traffic management, inventing and patenting, agriculture, poultry husbandry, and many academic subjects.

*Lewis Hotel Training Schools, Inc.*,<sup>3</sup> Twenty-third Street and Washington Circle, Washington, D. C.—This school offers both home-study and resident courses. The home-study course in hotel, restaurant, club, and institutional field administration consists of 52 lessons. The home-study course in food management, which includes complete training in restaurant, tavern, grillroom, lunch room, coffee shop, cafeteria, and tea room administration, consists of 25 lessons. In addition, the school offers a 20-lesson correspondence course in home-made candy making, covering every phase of the subject.

<sup>3</sup> Resident courses listed in part I.



*National Radio Institute*, Sixteenth and U Streets NW., Washington, D. C.—Course in radio by correspondence exclusively, \$110; extra charge for code, \$35.

*National School of Taxidermy*, Reading, Mich.—Taxidermy by correspondence. Length of course depends on ability of student. Tuition, \$12 complete course.

*National School of Time Study*, Norwalk, Conn.—One course, entitled "Time Study Analysis", consisting of 24 lessons. Tuition, cash, \$110. This includes stopwatch, slide rule, and other equipment, as well as instruction, consultation service, membership cards, diploma. No entrance requirements other than grammar-school education.

*Newspaper Institute of America*, 1776 Broadway, New York, N. Y.—A course in newspaper writing, \$75 cash in advance, \$85 in monthly payments.

*New York Institute of Photography*, 10 West Thirty-third Street, New York, N. Y.—Home-study courses are offered in professional still photography (includes portrait, commercial, news photography, and commercial photofinishing), and motion-picture photography (includes motion-picture projection). Tuition fee, cash \$62.50; by installments \$73.

*Northwestern School of Taxidermy*, M. E. Smith Building, Tenth and Douglas Streets, Omaha, Nebr.—Only 1 course in taxidermy is offered, which requires 3 months to complete. Price, \$20.

*Radio School of Los Angeles*,<sup>3</sup> Y. M. C. A. Building, 715 South Hope Street, Los Angeles, Calif.—Offers a correspondence course in radio engineering. Each lesson is purchased as a separate unit. \$2 per lesson.

*R. C. A. Institutes, Inc.*,<sup>3</sup> 75 Varick Street, New York, N. Y.—Subjects covered by home-study courses are radio servicing, commercial radio operating, and sound amplification. Included in the instruction are television fundamentals, aviation radio, broadcast transmission, sound motion-picture recording and projecting, equipment, physics of sound, radiotelegraph code, and other allied subjects. The courses are arranged in groups of lessons, permitting elimination of elementary parts of the instruction when not

<sup>3</sup> Resident courses listed in part I.

needed by the student, or discontinuance of the course at will without obligation on the part of the student to complete his studies or make further payments. The tuition averages \$10 per group of lessons, payable with the order for a particular group. The tuition includes examination and grading service and the services of technical consultants through correspondence, or in person when convenient. Students who complete an extension course are offered 2 weeks of practical training with equipment and full laboratory facilities, at R. C. A. Institutes' resident school, without charge.

*O. F. Schoeck School*, Alton, Ill.—Home-study courses in Diesel engineering, refrigeration, and air conditioning, and secretarial training. Tuition, \$65 to \$115.

*Siebel Institute of Technology*,<sup>3</sup> 958-970 Montana Street, Chicago, Ill.—Home-study courses given are: Baking technology, 33 lessons, \$110 cash, \$125 installments; refrigeration engineering, 20 lessons, \$95 cash, \$105 installments; carbonated beverages, 20 lessons, \$95 cash, \$105 installments; milling technology, 20 lessons, \$75 cash, \$85 installments.

*Washington School of Art*, 1115 Fifteenth Street NW., Washington, D. C.—Home-study courses are offered in commercial art.

*Universal Photographers, Inc.*, 10 West Thirty-third Street, New York, N. Y. (Affiliated with New York Institute of Photography.)—A home-study course is offered in journalistic photography (includes marketing service for selling photographs for publication purposes). Tuition fee, cash \$37.50; by installments, \$45.

*Warren School of Aeronautics*, 236 West Eighteenth Street, at Olive, Los Angeles, Calif.—Courses: Master mechanics, engine and airplane mechanics, aeronautical engineering and design.

NOTE.—For extension course material which may be purchased from *The Westinghouse Electric & Manufacturing Co.*, East Pittsburgh, Pa., see part II, Corporation Schools.

<sup>3</sup> Resident courses listed in part I.



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#### PART IV: PRIVATE AND ENDOWED COLLEGIATE SCHOOLS OF TECHNOLOGY

Armour Institute of Technology, Chicago, Ill.  
Billings Polytechnic Institute,<sup>4</sup> Billings, Mont.  
Bradley Polytechnic Institute,<sup>4</sup> Peoria, Ill.  
Carnegie Institute of Technology, Pittsburgh, Pa.  
Chicago Technical College,<sup>4</sup> 118 East Twenty-sixth Street, Chicago, Ill.  
Cooper Union, Eighth Street at Fourth Avenue, New York, N. Y.  
Detroit Institute of Technology, Y. M. C. A., Detroit, Mich.  
Drexel Institute, Thirty-second and Chestnut Streets, Philadelphia, Pa.  
Hillyer Institute, Y. M. C. A., Hartford, Conn.  
Ohio Mechanics Institute,<sup>4</sup> Cincinnati, Ohio.  
Oregon Institute of Technology,<sup>4</sup> Y. M. C. A., Portland, Oreg.  
Pacific Coast University, 2256 Venice Boulevard, Los Angeles, Calif.  
Pennsylvania Museum and School of Industrial Art,<sup>4</sup> Broad and Pine  
Streets, Philadelphia, Pa.  
Polytechnic Institute of Brooklyn, Brooklyn, N. Y.  
Pratt Institute,<sup>4</sup> Brooklyn, N. Y.  
Radio Institute of California, 1117 Venice Boulevard, Los Angeles, Calif.  
Rochester Athenaeum and Mechanics Institute,<sup>4</sup> Rochester, N. Y.  
Wentworth Institute,<sup>4</sup> Boston, Maine.

<sup>4</sup>Listed in pt. I of this bulletin.

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