

A Two Months' Course in Farm Engineering

WE have much satisfaction in directing attention to the announcement on another page of a two-months' course in farm engineering which will be carried out at Manitoba Agricultural College, Winnipeg, beginning on January 16th.

We believe this is the only course of its kind offered in Canada which covers the various phases of farm engineering, such as steam and gas traction engineering, forge shop, farm mechanics, building construction, concrete construction, farm machinery, etc.

While this course is intended primarily to benefit those wishing to become more proficient in mechanics relating to the farm, the course will also be of value to men who wish to secure a certificate for the purpose of operating stationary steam engines. The course is intended not only for the young men in the country, but for the more mature men on the farm, a large number of whom have attended our engineering courses during the past years.

Object and Scope of the Course

Gas Engine Work.—Gas engine construction, care and operation, stationary and gas tractor work, ignition, combustion, gas engine troubles.

Steam Engines.—Principles, adjustments, valve setting, operation and upkeep, small stationary engines, and steam tractors.

Boilers.—Types, their construction, repair and operation. Flue work.

Forge Shop.—A complete course in forging iron and steel, and in tool steel work, covering such work as drawing out iron, making hoops, eyes, rings, washers, chain links, welding round and flat iron, making and tempering punches, chisels, forging key drifts and calking tools.

Farm Mechanics.—Babbitting, soldering, belt lacing, harness repair, pipe fitting, key fitting, balancing pulleys, gears, taps and discs.

Concrete Construction.—Mixing, proportioning and placing concrete, making concrete tile, side walks and building blocks.

Building Construction.—Framing of farm buildings, laying out rafters, use of carpenter tools, wood shop exercises, saw filing, mixing paint, etc.

Farm Machinery.—Examination and comparison of plows, drills, binders, fanning mills, feed grinders, etc. Talks on the care and operation of the separator.

In addition to the above, lec-

tures will be given in English and Farm Bookkeeping. Inspection trips will be made to several large shops and power plants in Winnipeg.

Since those in charge of this course have their regular teaching with the college students, it will not be possible to complete any one or more parts of the work outlined in less than the full eight weeks of the course.

At the close of the short course, examinations will be given and the student who passes will be given a certificate of attendance, and will be given full credit for the work done, so that, should he desire later to take the regular college course, it will not be necessary for him to take the subjects given in the short course.

Equipment

The large engineering building is well equipped for teaching the work outlined. The blacksmith's shop has forty forges and other necessary tools. The concrete laboratory and wood shop have ample appliances and tools. Models and sectional engines and accessories make it easy for the student to grasp the principles of the important parts of steam and gas engines and boilers. The power machinery laboratory contains four stationary steam engines and a dozen stationary gasoline and kerosene engines, together with gas and steam tractors loaned the college by the various tractor firms.

The students for this course will have the opportunity of living in the splendid college residence. It is well equipped with a large gymnasium, shower baths and swimming tank, so that the life in residence, with the large college library and reading room, offers a fine opportunity for self-improvement along other than engineering lines.

The course will be in charge of Professor L. J. Smith, B.S., professor of agricultural engineering and a first-rate staff of experienced lecturers and assistants. Professor Smith is an enthusiast in his special vocation. He has been engaged as "a whole man to one thing at a time" practically all his life, and that one thing is the science of farm mechanics.

We trust that this unique opportunity will be taken advantage of by a very large number of our readers. We have "stacks" of splendid power machinery, perfect for all practical purposes, but we are still lamentably short of men (and women) who have sufficient skill to run these machines and tools.



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