Vocational Training for Disadvantaged Youth in Colombia

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Sector(s): Education

Location: Colombia

Sample: 4,353 young people between the ages of 18 and 25

Target group: Job seekers Youth

Outcome of interest: Employment Long-term results

Intervention type: Apprenticeships and on-the-job training

AEA RCT registration number: AEARCTR-0001213

Data: Download Original Dataset (published 2011) and

Research Papers: Vocational Training for Disadvantaged Youth in Colombia: A Long-Term Follow-Up

Partner organization(s): Colombia National Planning Department (DNP), Econometria Consultores, Economic and Social Research Council (ESRC), Sistemas Especializados de Informacion (SEI) S.A., University of Houston

Youth with low skill levels are less likely to be working and are particularly vulnerable to poverty. Training programs are a potential solution to this problem for individuals who are not in the formal schooling system. Researchers evaluated the effect of a vocational training program on participants' earnings, formal sector employment, and educational outcomes, as well as the labor market and educational outcomes of their relatives. Being offered the program increased both earnings and formal sector employment, especially for women. A separate follow-up study found that relatives of women offered the program, had improved labor market outcomes up to 8 years later and higher educational attainment up to 11 years later.

Policy issue

Youth with low skill levels are less likely to be working and are particularly vulnerable to poverty. Globally, 13.1 percent of youth were unemployed in 2017, amounting to 71 million youth.[1], Training programs are a potential solution to help youth who are not in the formal schooling system to acquire skills that improve their potential employment outcomes. However, while many training programs have been implemented, few have been evaluated. Of those programs that have been evaluated, some have not successfully improved labor market outcomes for youth in developing countries.[2]

Context of the evaluation

Following a major recession in the late 1990s, the Government of Colombia implemented a set of social programs that included Jóvenes en Acción (Youth in Action, or JeA), a free vocational training program targeted to youth aged 18 to 25 years old. Youth who were unemployed and part of the bottom fifth of the income distribution were eligible. The government partnered with private training institutions to implement the training program in the seven largest cities of the country, reaching 80,000 young people between 2002 and 2005. Researchers evaluated the effect of this program on participants' earnings, employment, and educational outcomes, as well as on the labor market and educational outcomes of their siblings.



Man working in a bakery near Barranquilla, Colombia.

Photo: J-PAL

Details of the intervention

Jóvenes en Acción is a vocational training program that aims to develop youths' job skills; to encourage private institutions to provide training programs; and to improve the matches between workers and firms. While the government funded the program, private training centers implemented the courses. Each course had two main components: classroom training and on-the-job training. The classroom training lasted three months and focused on the development of basic abilities for becoming employed (including soft skills such as punctuality, reliability, communication, teamwork, and problem-solving skills) and on the development of occupation-specific skills. Participants then did a three-month on-the-job training with an employer. The training centers incorporated a motivational enrichment program called the Project of Life throughout the JeA program, with the goal of improving their self-esteem, their understanding of the workplace, and their own abilities. Trainees received a small stipend of

about US$2.20 at the time of the evaluation per day to cover transportation and other miscellaneous expenses; this amount increased to about US$3 for women with children under seven years of age.

A key feature of this program was that the payment structure incentivized training centers to help their trainees complete the program and secure jobs after the program. Training centers received a large fraction of their total payment per student conditional on the student successfully completing the course, obtaining an apprenticeship, and completing it. They received an additional bonus if the firm hired the trainee on a formal contract. Training centers selected who would receive their training amongst eligible candidates, allowing them to pick trainees who they thought would be the most likely to succeed.

To evaluate the impact of the program on employment outcomes, researchers partnered with the training centers, who selected up to 50 percent more applicants than the places available for the courses for the 2005 cohort. 2,066 youth were randomly assigned to the program, while 2,287 were assigned to the comparison group. Researchers used survey data collected in January of 2005 and follow-up data in August and September of 2006 to evaluate the program's effect.

Researchers then linked program participation to the government's administrative data to measure the impact of the program on educational outcomes up to 11 years later and labor market outcomes up to 8 years later for a larger sample of 31,054 applicants. Because this administrative data only contained information on individuals working in the formal sector, the follow-up analysis did not provide insight on informal employment outcomes.

In addition to assessing the effects of JeA on program participants, researchers in a separate paper also measured the impact of the program on participants' relatives' educational and labor market outcomes.

Results and policy lessons

Researchers initially evaluated the effect of the training program on participants' earnings, employment, and educational outcomes. Two separate follow-up studies measured the longer-term labor market outcomes of the subjects,[3], and the labor market and educational outcomes of their relatives,[4] respectively. Those offered the program had increased earnings, and formal sector employment, including in the longer run.

Earnings: Immediately following the intervention, wage and salary earnings for women who were offered the program increased by COL$34,668 per month (almost US$18 at the time of the evaluation), a 19.6 percent increase over women who were not offered the training. Being offered the program had no detectable impact on the earnings of men in the original short-run evaluation.

Up to 8 years later, individuals who were offered the program had formal earnings that were about COL$27,000 (US$13.71) higher on average (a 12.2 percent increase) than those in the comparison group. In this longer-term follow up, men and women experienced a similar relative increase in formal earnings of 12.4 percent (from US$94.90 to US$106.70 for women and US$146 to US$164.10 for men).

Formal sector employment: The increase in formal earnings was driven by an increase in formal sector employment. Up to 8 years after the program, 36.8 percent of those who were offered the training were working in the formal sector, compared with 33 percent of those in the comparison group (an 11.5 percent increase).

Job quality: Larger firms were considered a proxy for better jobs. Up to 8 years later, 20.1 percent of those offered the program worked in a large formal sector firm, compared with 17.4 percent of those not offered the training program, representing a 15.5 percent increase.

Educational outcomes: A separate follow-up paper tracking educational outcomes for participants and their relatives also found that participants offered the program had higher enrollment in tertiary education, and their relatives also had higher secondary schooling up to 11 years later.

Being offered vocational training did not affect individuals' secondary school completion up to 11 years after the program. However, it increased their tertiary education enrollment rates by 3.7 percentage points for men (to 18.3 percent, compared with 14.6 percent for men not offered the program) and 3.2 percentage points for women (14.7 for those offered the program, compared with 11.5 percent for those not offered the program).

Female beneficiaries were more likely than male beneficiaries to face credit constraints, and being offered JeA likely helped to relax these constraints. Researchers suggest that this allowed women who were offered the program to further pursue higher education. However, there were no such links for men. Rather, researchers present evidence that men may have learned about specific skills or the value of these skills through the program, leading them to pursue higher education.

The program improved education outcomes up to 11 years later for relatives of those offered the training. Relatives of women who were offered the program were more likely to complete secondary school by 1.7 percentage points (relative to 12.4 percent likelihood for relatives of those not offered the training), but there was no effect on tertiary schooling. Researchers suggest that the training provided information and awareness of the benefits of education that helped improve educational outcomes for relatives of women beneficiaries.

After the evaluation, JeA was continued and scaled up, although for a different population of internally displaced workers.

Attanasio, Orazio, Adriana Kugler, and Costas Meghir. 2011. "Training Disadvantaged Youth in Latin America: Evidence From a Randomized Trial." American Economic Journal: Applied Economics 3 (July 2011): 188-220. Attanasio, Orazio, Arlen Guarín, Carlos Medina, and Costas Meghir. "Long Term Impacts of Vouchers for Vocational Training: Experimental Evidence for Colombia." NBER Working Paper No. 21390, July 2015.

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1. International Labour Organization. "World Employment Social Outlook: Trends for Youth 2016."

2. McKenzie, David. "How Effective Are Active Labor Market Policies in Developing Countries? A Critical Review of Recent Evidence." The World Bank. 2017.

3. Attanasio, Orazio, Arlen Guarin, Carlos Medina, Costas Meghir. "Vocational Training for Disadvantaged Youth in Colombia: A Long-Term Follow-Up" American Economic Journal: Applied Economics 2017, 9(2): 131–143.

4. Kugler, Adriana, Maurice Kugler, J. E. Saavedra, and Juan E. Saavedra, Luis Omar Herrera-Prada. "Long-Term Educational Consequences of Vocational Training in Colombia: Impacts on Young Trainees and their Relatives," Journal of Human Resources 2020.