14.771: Labor Markets

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Signaling

- Are matching frictions a big part of the challenge?
- Job search is a big topic in developed country labor. People are starting to examine this in developing country settings
- Carranza et al (2020) examine one issue: how to credibly signal skills:
 - Randomize some people to obtain skill assessments, and World Bank branded certificate assessing skills. What does this measure?
 - In a second arm, they also provide *private* information to workseekers. Why? To see if people are learning information about themselves (as opposed to signaling).
 - In a third arm, to test employer side, run an audit experiment, creating job applications with and without jobs. Why? Shows firms care.

The Certificate

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license. For more information, see https://ocw.mit.edu/help/faq-fair-use/ Figure 1: Sample Public Certificate

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REPORT ON CANDIDATE COMPETENCIES

name.. surname.. ID No. id.,

This report provides information on assessments conducted by Harambee Youth Employment Accelerator (harambee.co.za), a South African organisation that connects employers looking for entry-level talent to young, high-potential work-seekers with a matric or equivalent. Harambee has conducted more than 1 million assessments and placed candidates with over 250 top companies in retail, success in the workplace. This report was designed and funded in collaboration with the World Bank. You can find more information about this report, the assessments and contact details at <u>www.assessmentreport.info</u>. «name» was assessed at Harambee on 13 September, 2016.

- «name» completed assessments on English Communication (listening, reading, comprehension), Numeracy, and Concept Formation: The Numeracy tests measure candidates' ability to apply numerical concepts at a National Qualifications Framework (NQF) level, such as working with fractions, ratios, money, percentages and units, and performing calculations with time and area. This score is
- an average of two numeracy tests the candidate completed.
 2. The Communication test measures a candidate's grasp of the English language through listening, reading and comprehension. It
- assesses at an NQF level, for example measuring the ability to recognise and recall literal and non-literal text. The Concept Formation Test is a non-verbal measure that evaluates candidates' ability to understand and solve problems. Those 3. with high scores are generally able to solve complex problems, while lower scores indicate an ability to solve less complex problems.

- «name» also completed tasks and questionnaires to assess their soft skills: 4. The Planning Ability Test measures how candidates plan their actions in multi-step problems. Candidates with high scores gener-ally plan one rune steps hade in solving complex problems.
- 5. The Focus Test assesses a candidate's ability to distinguish relevant from irrelevant information in potentially confusing environments. Candidates with high scores are generally able to focus on tasks in distracting surroundings, while candidates with lower scores are more easily distracted by irrelevant information
- 6. The Grit Scale measures whether candidates show determination when working on challenging problems. Those with high scores generally spend more time working on challenging problems, while those with low scores choose to pursue different problems

«name»'s results have been compared to a large benchmark group of young (age 18-34) South Africans assessed by Harambee. All candidates have a matric certificate and are from socially disadvantaged backgrounds. The benchmark group is 5,000 for cognitive skills and 400 for soft skills.

(aname» scored in the «tercile_num» THIRD of candidates assessed by Harambee for Numeracy, «tercile_lit» THIRD for Communication, «tercile eft» THIRD for Concept Formation, «tercile tol» THIRD for Planning Ability, «tercile troop» THIRD for Focus and «tercile_grit» THIRD for the Grit Scale.



DISCLAIMER: This is a confidential assessment report for use by the person specified above. The information in the report should only be disclosed on a "need to know basis" with the prior understanding of the candidate. Assessment results are not infallible and may not be entitled vacurate. Best practice indicates that any organisation's career management decisions should depend on factors in addition to these assessment results. Harambee cannot accept responsibility for decisions made based on the information contained in this report and cannot be held liable for the consequences of those decisions.

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Private version

REPORT ON CANDIDATE COMPETENCIES -Personal Copy-

This report contains results from the assessments you took at Harambee in Phase 1 and Phase 2. These results can help you learn about some of your strengths and weaknesses and inform your job search.

You completed assessments on English Communication (listening, reading and comprehension) and Numeracy today in Phase 2. In Phase 1, you completed a Concept Formation assessment which asked you to identify patterns.

- The Numeracy tests measure various maths abilities. Your score is the average of the two maths tests you did today at Harambee
- The Communication test measures English language ability through listening, reading and comprehension.
- 3. The Concept Formation test measures the ability to understand and solve problems. Candidates with high scores can generally solve complex problems, while lower scores show an ability to solve less complex problems.

You also did some games and questionnaires to measure your soft skills:

- 4. The Planning Ability Test measures how you plan your actions in multi-step problems. Candidates with high scores generally plan one or more steps ahead in solving complex problems.
- 5. The Focus Test looks at your ability to pick out which information is important in confusing environments. Candidates with high scores are able to focus on tasks in distracting situations.
- 6. The Grit Scale measures candidates' determination when working on difficult problems. Candidates with high scores spend more time working on the problems rather than choosing to pursue different problems.

Your results have been compared to a large group of young South African job seekers who have a matric certificate, are from socially disadvantaged backgrounds and have been assessed by Harambee.

You scored in the MIDDLE THIRD of candidates assessed by Harambee for Numeracy, MIDDLE THIRD for Communication, LOWER THIRD for Concept Formation, LOWER THIRD for Planning Ability, MIDDLE THIRD for Focus and TOP THIRD for the Grit Scale.



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Please note that this is a confidential assessment report and is intended for use by the person specified above. Assessment results are not infallible and may not be entirely accurate.

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Results

Table 1: Treatment Effects on Labor Market Outcomes						
	(1)	(2)	(3)	(4)	(5)	
	Employed	Hours ^c	$Earnings^{c}$	Hourly wage ^c	Written contract	
Treatment	0.052	0.201	0.338	0.197	0.020	
	(0.012)	(0.052)	(0.074)	(0.040)	(0.010)	
Mean outcome	0.309	8.85	159.3	9.84	0.120	
Mean outcome for employed		28.85	518.3	32.28	0.392	
# observations	6607	6598	6589	6574	6575	
# clusters	84	84	84	84	84	

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Results - CDFs and QTEs



4 6 Earnings (inverse hyperbolic sine) 10

8

9

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2

Figure 2: Quantile Treatment Effects on Earnings Panel A: Empirical Distributions of Earnings in Control and Public Certification Groups



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Public vs. Private

Own assessments

	(1)	(2)	(3)	
	Skill belief	> median	Targeted	
	accurate	self-esteem	search	
Public certification	0.158	0.001	0.052	
	(0.008)	(0.013)	(0.010)	
Private certification	0.123	-0.002	0.047	
	(0.008)	(0.014)	(0.010)	
p: public = private	0.000	0.806	0.698	
Mean outcome	0.389	0.553	0.155	
# observations	6607	6609	6609	
# clusters	84	84	84	

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Public vs. Private

Job outcomes

	(4)	(5)	(6)	(7)	(8)
	Used	Applications	Interviews	Offers	Expected
	$\mathrm{report}^{\mathrm{b}}$	with report ^{b,c}	with report ^b	with report ^b	$offers^{a,c}$
Public certification	0.699	1.682	0.432	0.112	0.106
	(0.013)	(0.040)	(0.023)	(0.011)	(0.019)
Private certification	0.289	0.572	0.144	0.036	0.053
	(0.012)	(0.033)	(0.017)	(0.008)	(0.023)
p: $public = private$	0.000	0.000	0.000	0.000	0.025
Mean outcome	0.000	0.000	0.000	0.000	4.198
# observations	6609	6598	6597	6597	6531
# clusters	84	84	84	84	84
	(9)	(10)	(11)	(12)	(13)
	Worked	UounoC	Famingac	Hourly	Written
	worked	nours	Lainings	$wage^{c}$	contract
Public certification	0.052	0.201	0.338	0.197	0.020
	(0.012)	(0.052)	(0.074)	(0.040)	(0.010)
Private certification	0.011	0.066	0.162	0.095	0.017
	(0.012)	(0.048)	(0.078)	(0.046)	(0.009)
p: $piblic = private$	0.002	0.011	0.028	0.030	0.769
Mean outcome	0.309	8.848	159.291	9.840	0.120
# observations	6607	6598	6589	6574	6575
# clusters	84	84	84	84	84

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Audit Experiment

Table 1. Headment Encets of Mathemation in Mathematics						
	(1)	(2)	(3)	(4)		
	Any re	esponse	Interview	v request		
Certificate (1)	0.015	0.016	0.009	0.010		
	(0.009)	(0.009)	(0.004)	(0.006)		
Certificate \times HighIntensity (2)	-0.027	-0.028	-0.014	-0.017		
	(0.013)	(0.014)	(0.009)	(0.010)		
Mean outcome	0.130	0.130	0.088	0.088		
# applications	3992	3992	3992	3992		
# vacancies	998	998	998	998		
# resumes	717	717	717	717		
Vacancy fixed effects		×		×		
Email address fixed effects		×		×		
Resume covariates		×		×		

Table 4: Treatment Effects of Additional Information in Audit Study

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Other issues

- Search and online platforms. Wheeler et al (2021) study the impact of LinkedIn training on job search behavior in South Africa.... and find substantial impacts
- Job training. Alfonsi et al (2020) study the impact of vocational and firm-specific training in Uganda. Find both help initially, but general purpose training builds over time, whereas firm training fades.
- Much more to do!

Working conditions

- One issue highlighted by the previous study is that working conditions in many industrial jobs in the developing world are terrible.
- There is a long history of these issues in the US that led to workplace regulations, OSHA, etc
 - Uptain Sinclair's 1906 "The Jungle" about working conditions in meatpacking plants (although ultimately the impact may have been more about food safety)
 - Triangle Shirtwaist Factory Fire of 1911. Locked doors and exits led to 146 deaths of garment workers in New York
- Many examples of similar issues today in the developing world
 - 2012 Dhaka garment factory fire killed 117 workers
 - 2013 Dhaka garment factory collapse killed 1,134 workers
- Despite popular attention ('sweatshops') there is relatively little research on these issues

Working conditions

Figure 2: Rana Plaza building collapse



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Mulinationals and working conditions

Boudreau 2020: Multinational enforcement of labor law: Experimental evidence from Bangladesh's apparel sector

- Multinationals often push or higher working conditions than domestic firms, due to home-market pressure
- Does this matter?
- Boudreau's experiment: In 41 out of 84 Bangladeshi factories, multinationals create 'worker-manager safety committee'. Views? Note: the rest got it 9 months later.

The intervention



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	Control mean (1)	ITT Effect (2)
Factory safety spotcheck index	0.000	0.217 [0.015]**
Sewing: Machines have guards and workers wear PPE^{\dagger} for their task	0.500	0.076 [0.619]
Cutting: Machines have knife guards and workers wear PPE for their task	0.792	0.071 [0.557]
Dyeing and jobs handling chemicals: Safety masks, goggles, gloves, aprons, and boots worn by workers handling chemicals	0.545	0.102 [0.668]
All PPE appropriate size, functional, and well-maintained	0.951	0.050 [0.492]
Aisles clearly marked and markings visible	0.780	0.025 [1.000]
Aisles clear of sewing scrapes and debris	0.951	0.048 [0.503]
Aisles clear of obstruction	0.854	0.014 [1.000]
Machines in good working order & dangerous parts properly covered	0.927	0.070 [0.247]
Work stations maintained in tidy condition (no loose materials close to electrical appliances)	0.976	0.022 [1.000]
One or more easily accessible first aid kit in section	0.976	0.022 [1.000]
Physical separation between storage & production areas	0.976	0.022 [1.000]
Drinking water easily accessible for all workers	1.000	-0.025 [1.000]
Drinking water provided appears clean (visual check)	1.000	-0.025 [1.000]
		Y

Table 5: Treatment effects: Physical indicators of factory safety

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	Control mean	ITT Effect
	(1)	(2)
Panel A: Primary outcome		
Worker job satisfaction & mental well-being	-0.013	-0.149
(well-being index)		[0.061]*
		$\{0.113\}$
Panel B: Sub-indexes and sub-variables		
Job satisfaction sub-index	-0.130	-0.386
		[0.017]**
		{0.075}*
Mental well-being sub-index	0.011	-0.059
		[0.709]
		$\{0.792\}$
Turnover sub-variable	0.115	-0.010
		[0.884]
		$\{0.792\}$
Absenteeism sub-variable	0.088	-0.084
		[0.162]
		$\{0.321\}$
Observations		80
Stratification variables		Y
Control, base. dep. var.		Y

Table 6: Treatment effects: Workers' job satisfaction and mental well-being

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Results

Business competitiveness measures

	(1)	(2)	(3)
Panel A	Log(I	abor productivity)	
Treatment effect	0.115	0.087	0.036
	[0.148]	[0.189]	[0.392]
			$\{0.418\}$
Factories	75	75	74
Observations	375	368	370
Stratification variables	Y	Y	Y
Control, baseline dep. var.	Y	Y	Y
Product type FE	Y	Y	Y
Trimmed sample	Ν	Y	Ν
Dropping outlier	Ν	Ν	Y
Panel B	Log(Gross wages)	Log(Employment)	
Treatment effect	-0.015	-0.011	
	[0.612]	[0.635]	
	$\{0.466\}$	$\{0.466\}$	
Factories	72	80	
Observations	360	400	
Stratification variables	Y	Y	
Control, baseline dep. var.	Y	Y	

Table 7: Treatment effects: Business competitiveness outcomes

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Discussion

• Findings

- The committee increases reported compliance with laws.
- No reported negative effects on labor productivity, wages, employment.
- Employees are unhappy.
- Views?
- Would really want to look at *profits* ideally.
- Safety?
- Also, what is the intervention really?

More on multinationals

Hjort et al 2020: Across-Country Wage Compression in Multinationals

- Do multinationals respond to local labor markets, home labor markets, or a combination?
- Key findings
 - Workers pay domestic workers similarly to workers in home country doing the same job
 - Home wage shocks (e.g. minimum wages) are transmitted to workers in foreign countries
 - Zooming in on Brazil, show that firms reduce low-skill hiring in Brazil when faced with home-country positive wage shocks for low-skill workers, which lead them to raise wages in Brazil
- Combined, suggests multinationals may play an unusual role

Sample	Sample 3 MNEs w/ estabHQ match w/in occ×year			Sample 2 MNEs w/ estabHQ match w/in occ		
Unit of Observation	estab×occ×yr	estab×skill-lev×yr	estab×yr	estab×occ	estab×occ×yr	
Data Structure	Panel	Panel	Panel	Cross-sectional	Panel (Imputed Estab. Panel)	
Dep. Var.		Log Wag	e at Foreign	Establishment		
		Panel A · I o	cal R ønchm	ark Waae Control		
	(1)	(2)	(3)	(4)	(5)	
Log HQ Wage	0.153**	0.121*	0.372***	0.324***	0.480***	
0 0 0	(0.048)	(0.062)	(0.065)	(0.072)	(0.109)	
Log Local Benchmark Wage	0.137***	0.212***		0.307***	0.008*	
Log Local Denominant Huge	(0.040)	(0.034)		(0.046)	(0.004)	
Employer×Occ FE	Y	. ,		. ,		
Employer×Skill-level FE		Y				
Employer FE			Y	Y	Y	
EstabCity×Year FE	Y	Y	Y		Y	
Occ FE				Y	Y	
EstabCity FE				Y		
Observations	19,520	9,241	1,274	17,850	31,751	
		Panel B: Estab -ci	tv×Occupat	ion×Year Fixed F	Effects	
	(1)	(2)	(3)	(4)	(5)	
Log HQ Wage	0.157***	0.266***	0.372***	0.280***	0.482***	
5 2 5	(0.048)	(0.090)	(0.065)	(0.068)	(0.041)	
Employer×Occ FE	Y	. ,	. ,			
Employer×Skill-level FE		Y				
Employer FE			Y	Y	Y	
EstabCity×Year FE			Y			
EstabCity×Occ×Year FE	Y				Y	
EstabCity×Skill-level×Year FE		Y				
EstabCity×Occ FE				Y		
Observations	19,520	9,246	1,274	17,850	38,268	

TABLE 2: RELATIONSHIP BETWEEN HQ AND FOREIGN ESTABLISHMENT WAGES

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	~		~ · · · ·	
Panel A: Binding Occupations (v. Others)	$\%\Delta$ Esta	ab. Wage	%Δ H	Q Wage
w/in Establishment×Year	(1)	(2)	(3)	(4)
%∆ HQ Min Wage		0.016		-0.006
		(0.074)		(0.057)
$\%\Delta$ HQ Min Wage \times Occ. Binding	0.088***	0.082***	0.209***	0.263
	(0.029)	(0.032)	(0.096)	(0.166)
Employer×Occ FE	Y	Y	Y	Y
Year FE	Ν	Ν	Ν	Y
EstabCity×Year FE	Ν	Y	Ν	Ν
Employer×Estab.×Year FE	Y	Ν	Y	Ν
Observations	7,803	7,803	2,447	2,327
R-squared	0.721	0.707	0.717	0.356
Panel B: Heterogeneity by Firm Bindingness	$\%\Delta$ Esta	ab. Wage	%Δ H	Q Wage
on Low-Skill Occ'n.s w/in HQ-Country×Year	(1)	(2)	(3)	(4)
%∆ HQ Min Wage		0.055		0.149
		(0.070)		(0.403)
%∆ HO Min Wage ×Firm Bindingness	1.373***	1.118**	4.705***	4.172***
(sample median deviation of Kaitz)	(0.527)	(0.529)	(0.048)	(1.421)
Employer×Occ FE	Y	Y	Y	Y
Year FE	Ν	Ν	Ν	Y
EstabCity×Year FE	Y	Y	Ν	Ν
HQ-City×Year FE	Y	Ν	Y	Ν
Observations	34,634	34,634	994	994
R-squared	0.472	0.447	0.825	0.825
Panel C: Heterogeneity by Firm Bindingness	%Δ Esta	ab. Wage	%Δ H	Q Wage
on Binding Occ'n.s (v. Others) w/in HQ-Country×Year	(1)	(2)	(3)	(4)
$\%\Delta$ HQ Min Wage		0.014		0.023
		(0.041)		(0.018)
%A HO Min Wage × Occ. Binding	0.086	0.086	0.126***	0 147***
/ 0 <u>_</u> x	(0.058)	(0.060)	(0.043)	(0.047)
VA UO Min Wagay Oca Dinding	1 242***	1 100**	4.045**	4 206*
702 HQ Will Wage XOCC. Bilding	1.245	1.190	4.045	4.500
	(0.404)	(0.403)	(1.929)	(2.333)
$\%\Delta$ HQ Min Wage×Occ. Non-binding	0.896**	0.813**	3.864**	3.681*
×Firm Bindingness (sample median deviation)	(0.375)	(0.375)	(1.924)	(2.177)
Employer×Occ FE	Y	Y	Y	Y
Year FE	N	N	N	Y
EstabCity×Year FE	Y	Y	N	N
HQ-City×Year FE	N	Y	N	Y
Observations	6,505	6,505	3,384	3,384
R-squared	0.712	0.711	0.801	0.355

TABLE 5: MIN. WAGE IMPACT ON BINDING VS NON-BINDING OCCUPATIONS/FIRMS

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	Panel A: Extensive Margin					
Data Source	the Company RAIS (Brazil)			RAIS (Brazil)		
Unit of Observation	estab×occ×year					
Dep. Var.		Occupation Leaves Fo	oreign Establ	lishment		
Sample	All Occ.	Low-Skill Occ.		All Occ.		
	(1)	(2)	(3)	(4) .		
$\%\Delta$ HQ Min Wage	0.018*	0.026**	-0.050	-0.056		
	(0.009)	(0.012)	(0.056)	(0.056)		
% A HO Min Wage	-0.022*	-0.019				
\times HQ-Country Low Ineq. Aversion	(0.012)	(0.015)				
% Δ Min Wage at HQ × Low Skill Occ.	· · ·	. ,		0.108 (0.079)		
Employer×Occ FE	Y	Y	Y	Y		
EstabCity×Year FE	Y	Y	Y	Y		
Mean Dep. Var.	0.042	0.086	0.058	Low-Skill: 0.068 Med/High-Skill: 0.006		
Observations	169,841	105,545	35,059	35,059		
	Panel B: Intensive Margin					
Data Source		RAIS (I	Brazil)			
Unit of Observation		estab×wo	orker×yr			
Dep. Var.	v	Vorker Laid Off	Wo	rker Newly Hired		
	(1)	(2)	(3)	(4)		
%Δ HQ Min Wage	0.008	-0.011	-0.010***	-0.010***		
	(0.011)	(0.008)	(0.004)	(0.003)		
$\%\Delta$ HO Min Wage		0.027**		-0.004		
× Low-Skill Occ.		(0.010)		(0.006)		
Employer×Occ FE	Y	Y	Y	Y		
Employer FE	Ν	Ν	Ν	Ν		
EstabCity×Year FE	Y	Y	Y	Y		
Worker Controls	Y	Y	Y	Y		
Mean Dep. Var.	0.077	Low-Skill: 0.082 Med/High-Skill: 0.0662	0.052	Low-Skill: 0.118 Med/High-Skill: 0.072		
Observations	1,320,842	1,320,842	1,320,842	1,320,842		

TABLE 8: IMPACT OF HQ MIN.WAGE CHANGE ON FOREIGN ESTABLISHMENTEMPLOYMENT

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Future directions

- Some future directions
 - Labor market regulations in developing countries create rigid labor markets. What are the implications? How to square the India and Brazil results? Minimum wages? Other policies?
 - Worker safety / sweatshops /
 - Unions?
 - Unemployment insurance / disability insurance / safety nets?

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