Unit 6 The Firm:

Owners, Managers, and Employees

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Introduction

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Introduction

How does the firm interacts internally and externally?

- Firms are legal entity, yet still are composed by human
 - internal: Owner(s) v.s. Managers
 - external: Employees (labor market), consumer (goods market)
- Internal conflict: asymmetric information (e.g. Akerlof (1970))
- External conflict: hidden action (Principal-Agent Problem)
- As before, wage is determined by MRS = MRT
- Further reading: Unit 6

Internal Structure of the Firm

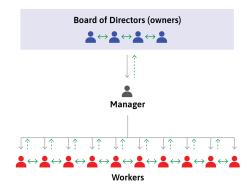
Firm's Internal Structure

Definition

Firm is a business organization which (1) hires ppl, (2) buy inputs to produce good/services, and (3) set prices \geq cost.

Black arrow downward:

- Owners: set long-term goal
- Managers: implement owners' goal by assigning tasks
- Workers: doing tasks



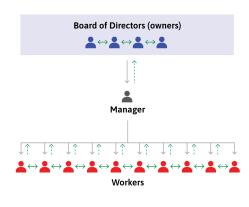
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Green arrow upward:

- Owners: Receive profit as a result of management
- Managers: payment not directly related to effort ⇒ other's \$, riskier investment / lowering effort
- Workers: salary not increasing with effort



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- Contracts are incomplete: outcome depends on future/unknown events, and hard to measure effort
- Incomplete contracts are inevitable, since modern job are mostly **not** able to measure output and works as a team
- Ways to alleviate incomplete contract:
 - f 0 pay with company shares: company profit \uparrow , share price \uparrow
 - 2 piece rate pay: \$5 to assembly one toy (low-end job)
 - monitoring

Labor Discipline Model



Workers work hard while firms' cannot directly measure effort because

- work ethic
- feelings of responsibility
- 3 reciprocate a feeling of gratitude for good working conditions
- benefits for measurable output
- promotions
- 6 fear of being fired
- ...Rational thinking sometimes means negative thinking 😩

Fear of being Fired

- Rent in Economics: payment to the owner greater than the costs
- If workers being unemployed, they get unemployment benefits ⇒ reservation wage
- Employment rent: benefit from employment disutility from work reservation wage, includes
 - lost income when searching
 - cost to start a new job, e.g. relocation
 - Loss of non-wage benefits
 - Social costs (scarring effects, lost of company connections/skill)
- Larger employment rent (higher wage) ⇒ larger cost of job loss ⇒ workers work hard to reduce chance of getting fired

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Employment Game

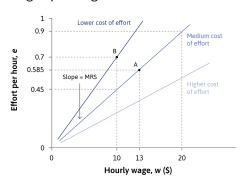
- 1 Employer: choose maximum wage to keep worker work hard enough
 - payoff: output wage
- Worker: choose minimum effort to keep him/herself from firing
 - payoff: employment rent
- Workers are the supply side in labor market: trade off are MRT
- Employers are the demand side in labor market: trade off are MRS
- Best response curve:
 - for workers: optimal amount of effort workers will exert for each wage offered
 - for employers: optimal level of wage employers will offer for each targeted level of effort.

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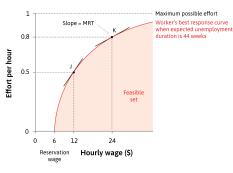
Best response curves

Employers: assume revenue doesn't change, firms minimize cost to max profit

⇒ find a **isocost** line that minimize wage spending

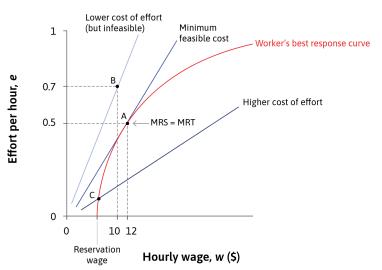


Workers: Feasible frontier for wage & effort



Determining Wages

Equilibrium is at MRS = MRT, efficiency wage =12> reservation wage



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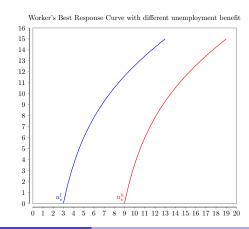
Unit 6

Involuntary Unemployment

Definition

Involuntary unemployment is being out of work, but preferring to have a job at the wages/working conditions as other workers.

- Must have involuntary unemployment in the labor discipline model!
 - : ensure employment rent is high enough for workers to put in effort.
- Foreshadowing: is higher unemployment benefit leads to higher/lower unemployment rate?



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Appendix



References I

Akerlof, George A. (1970) "The Market for "Lemons": Quality Uncertainty and the Market Mechanism," *The Quarterly Journal of Economics*, 84 (3), 488, 10.2307/1879431.