

## Hourly Wage Rates

## - Union Wage

§ Wage rate decide by labor contract between labor union and contractor's management
§ Fringe benefits directly paid to unions

- Open-shop Wage
§ Wage rate agreed on by employer and employee
- Prevailing Wage
§ Mostly for work on projects funded by state/federal monies


## Estimating Labor

- Estimates made in person-hours/labor-hours
- Employer pays for:
§ Wages
§ Fringe benefits
- $10-20 \%$ of base rate
§ Social security taxes
- Both employer and employee pays $7.65 \%$ of employee's gross salary,
capped by $\$ 76,000$, per annum capped by $\$ 76,000$, per annum
§ Unemployment taxes
- $3 \%$ of wages paid by the contractor period of employment
§ Workers' compensation/employer's liability insurance
- Protect contractor against work-site injury/ any related litigation
- Varies state to state and nature of labor
§ Public liability/property damage insurance
- Protect contractor from costs arising out of property damage ( $2 \%-5 \%$ )


## Davis-Bacon Act

- All federal government construction contracts and most contracts for federally assisted construction over $\$ 2,000$ must include provisions for paying workers on-site no less than the locally prevailing wages and fringe benefits paid (ammended 1964) on similar projects.
- Last suspended during hurricane Andrew § Reinstated by President Clinton (1993)
- Indefinitely suspended on 09/08 for the 4 states affected by Katarina
- Multiple efforts at repealing act! (latest: 2004)


## Estimating Production Rates

- Production Rate: Number of units installed/crew-hour
- Affected by:
§ Weather
§ Technology employed
§ Level of supervision
§ Worker skills
- Information: RS Means/historical contractor information


## Overtime

- Working overtime for an extended period of time adversely impacts productivity
- Guiding formula to calculate efficiency: § Eff.(\%) = 100\%-5[(days -5) + (hours -8)]
- Benchmark: $100 \%$ Efficiency when working 8 hours a day for 5 days a week.
- $95 \%$ efficiency for 9 hours a day 5 days a week.


