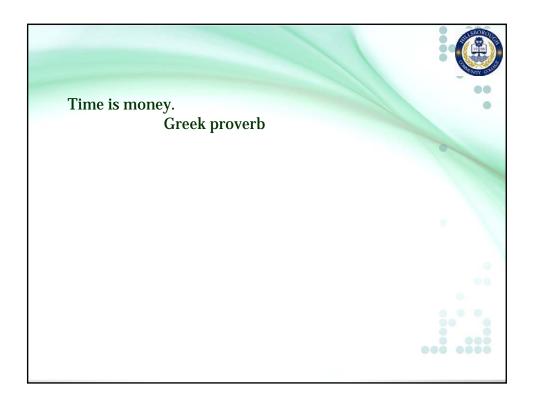
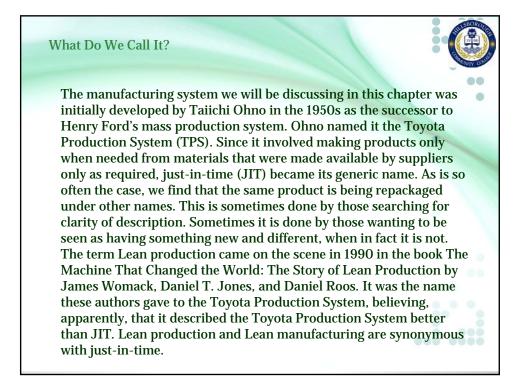
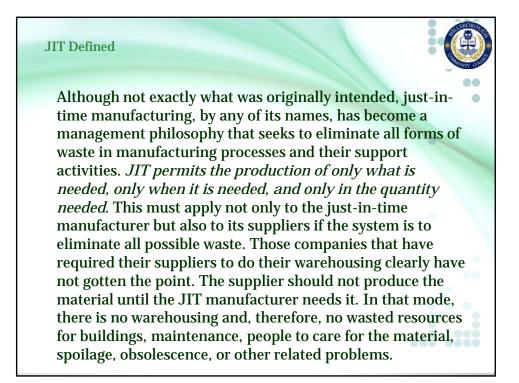
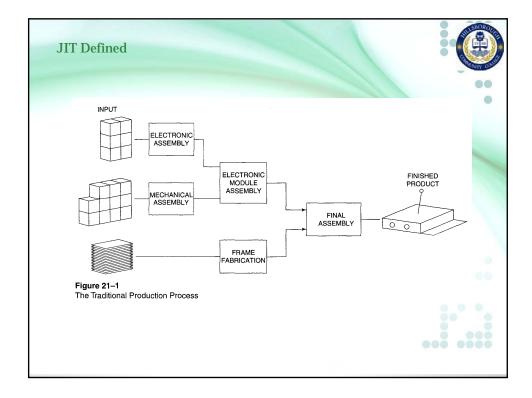


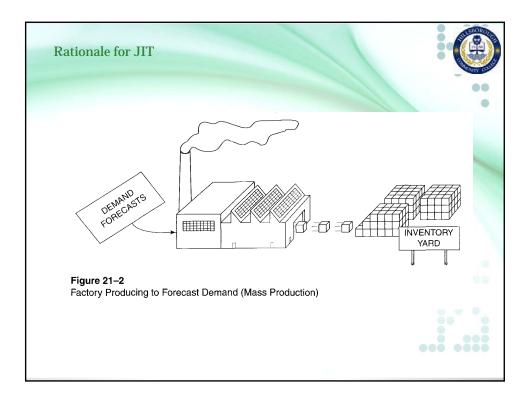
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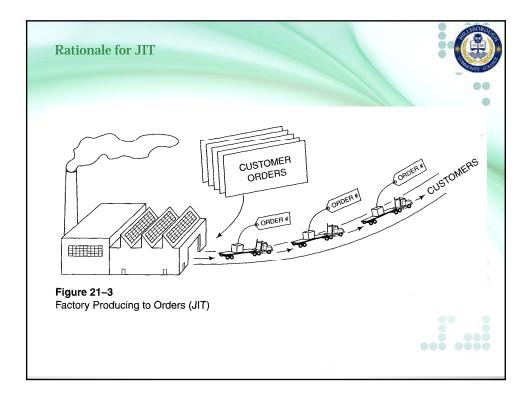


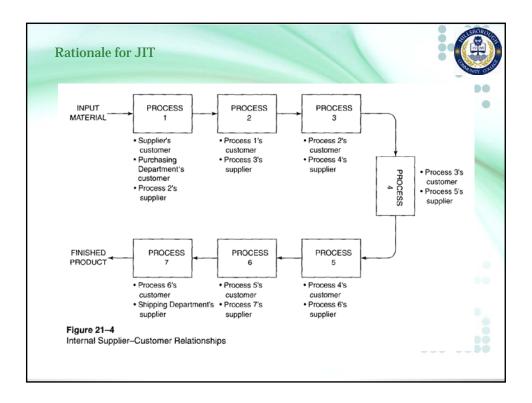


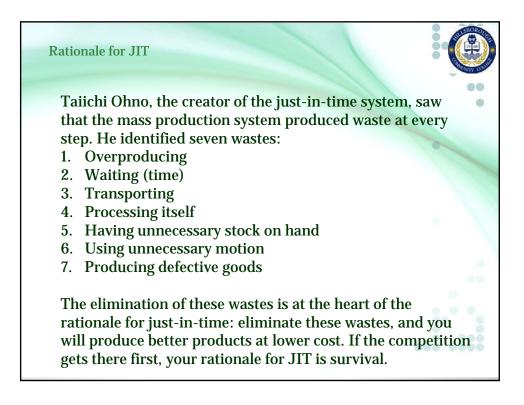


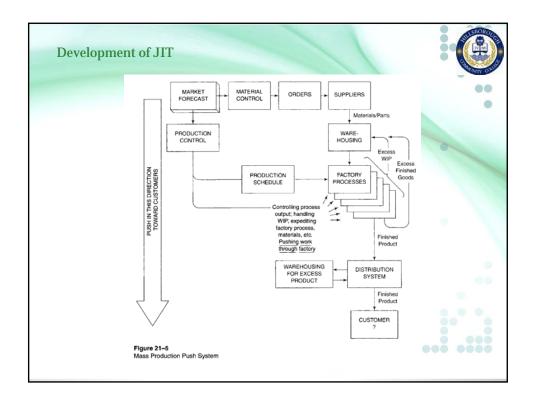


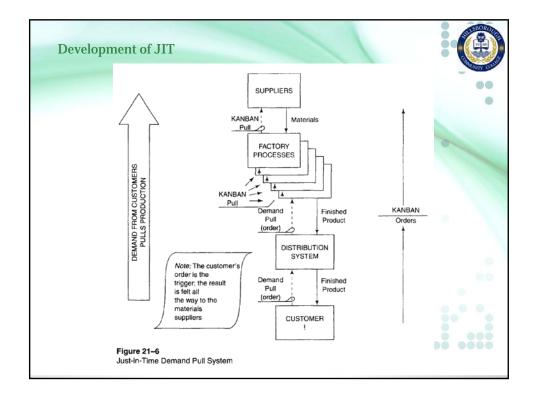




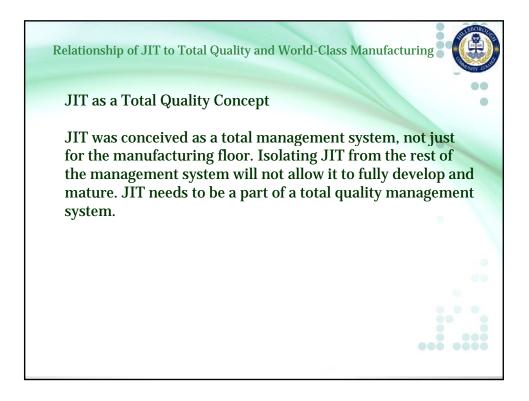


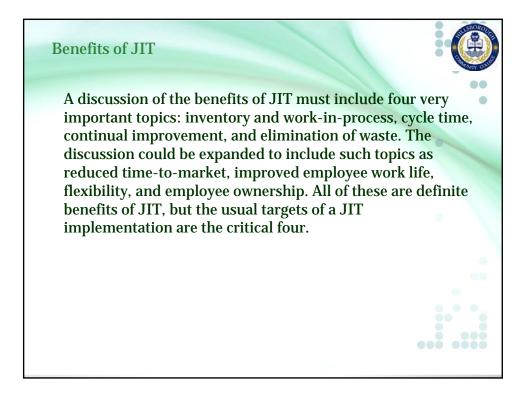


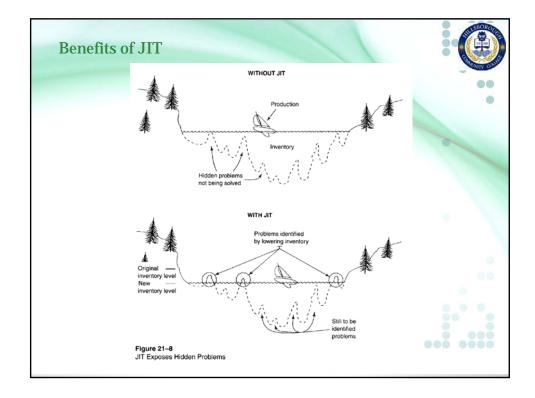


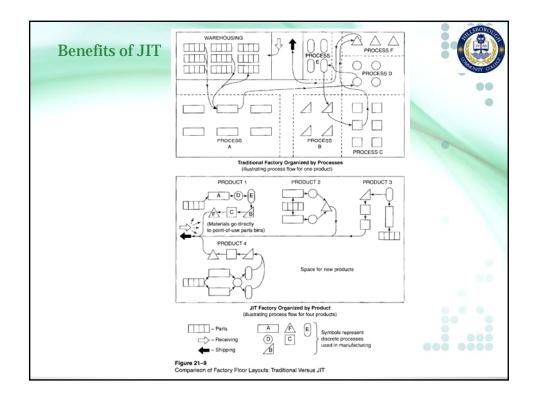


Relationship of JIT to Total Quality an	d World-Class Man	ufacturing
	Before JIT	After JIT
Indirect Expense	\$200,000	\$188,000
Direct Labor	100,000	67,000
Materials	500,000	500,000
General and Administrative Expense	50,000	50,000
Cost of Goods Sold	\$850,000	\$805,000

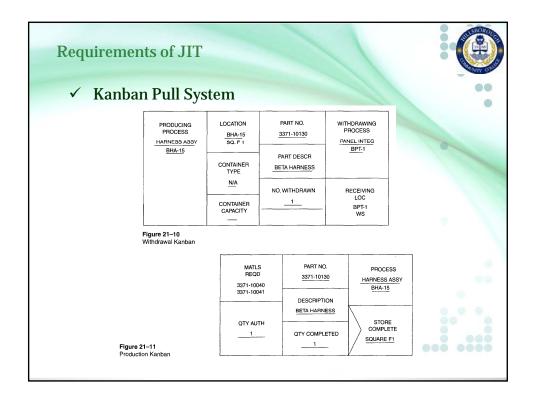


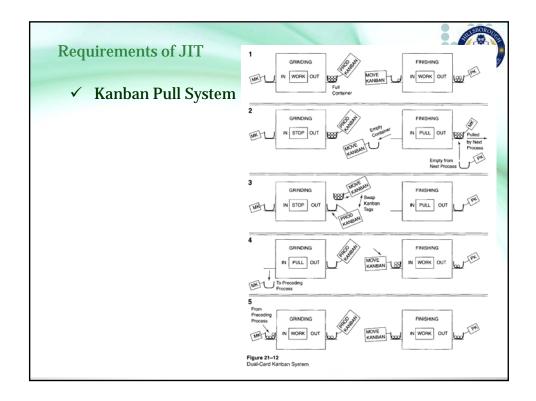


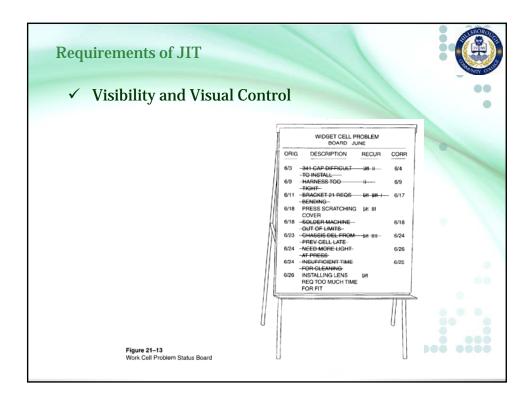














Automation and JIT



Many companies have made the costly mistake of thinking that automation will solve manufacturing problems. During the 1980s, manufacturers in the United States invested billions of dollars in automation. Cadillac built the most highly automated auto assembly plant in North America and probably the world. It turned into a nightmare of high-tech problems that took years to sort through. The plant that was to produce six cars per hour, after a year of operation, could do only half that and the quality of manufacture was, to put it charitably, questionable. Two years later, Toyota opened a new plant in Kentucky. Visitors to that plant, expecting to see a high- tech automated production line, were disappointed to find very little in the way of robotics. The difference in the philosophies of the two companies becomes obvious. Executive managers at GM believed that by spending enough money, they could buy their way out of the trouble they were in. Toyota knew what it was capable of doing in one of its other low-tech plants that was operating successfully in Japan and simply cloned it down to the last detail in Kentucky. No razzledazzle; just good common sense.

