



# COURSE CONCLUSION & SUMMARY

M T W T F S S

	2	3	4	5	6	7	8
9	10	11	12	13	14	15	
16	17	18	19	20	21	22	
23	24	25	26	27	28	29	
30	31						



# LEAN MASTERCLASS: JUST-IN-TIME SPECIALIZATION

## What is Just-In-Time?

JIT Case Study – Toyota

Section Introduction

What is Just-In-Time?

History of Just-In-Time

The Concept of Just-In-Time

Activity: JIT Introduction

Activity Solution: JIT Introduction

Section Conclusion

## What is Key Component # 1 of Just-In-Time?

Section Introduction

How is “Teamwork” an Essential Element?

How is “Discipline” an Essential Element?

How is “Supplier Involvement” an Essential Element?

Section Conclusion

## What is Key Component # 2 of Just-In-Time?

Section Introduction

What is Total Quality Control?

What is the Concept of Immediate Customer?

Can JIT be implemented in Small Scale Operations?

Activity: Key Components of JIT

Activity Solution: Key Components of JIT

Section Conclusion

## Characteristics of JIT System - Part 01

Section Introduction

What is Uniform Workstation Loads?

What are Small Lot Sizes?

What are Closer Supplier Ties?

How JIT helps maintain High Quality?

Section Conclusion

## Characteristics of JIT System - Part 02

Section Introduction

What are Quick & Economic Setups?

Analyze Existing Setup Procedures & Separation

Convert Internal Setup Activities into External

Section Conclusion

## Characteristics of JIT System - Part 03

Section Introduction

Flexible Facilities & Multi-Skilled Workforce

Preventive Maintenance

Continuous Improvement

Activity: JIT Characteristics

Activity Solution: JIT Characteristics

Section Conclusion

## 7 Steps to Implement JIT in Your Organization

Section Introduction

Activity: 7 Steps to Implement JIT

Activity Solution: 7 Steps to Implement JIT

Section Conclusion

## Advantages & Disadvantages of JIT System

Section Introduction

Advantages of JIT System

Disadvantages of JIT System

Section Conclusion

## How does JIT System Eliminate Waste?

Section Introduction

How does JIT System Eliminates Waste? – Part 01

How does JIT System Eliminates Waste – Part 02

Section Conclusion

What is Active Listening?

## How do Suppliers & Customers Work Together in JIT?

Section Introduction

How does Supplier & Customer Work Together? – Part 01

How does Supplier & Customer Work Together? – Part 02

How does Supplier & Customer Work Together? – Part 03

Section Conclusion

## Applications of JIT in Service Industry

Section Introduction

Application of JIT in Service – Part 01

Application of JIT in Service – Part 02

Section Conclusion

## Course Conclusion

Course Conclusion & Summary

# WHAT IS JUST-IN-TIME?

**A PLANNING SYSTEM FOR PROCESSES THAT MINIMIZES THE AVAILABILITY OF MATERIAL INVENTORIES TO ONLY:**

- **WHAT?**
- **WHEN? AND**
- **HOW MUCH IS STRICTLY NECESSARY?**

**IS AN INTEGRATED SET OF ACTIVITIES DESIGNED TO ACHIEVE HIGH-VOLUME PRODUCTION USING:**

- **MINIMAL INVENTORIES, RAW MATERIALS**
- **WORK-IN PROCESS, FINISHED GOODS, AND**
- **OTHER CONSUMABLE GOODS**

# WHAT IS JUST-IN-TIME?

**DEVELOPED BY TAIICHI OHNO & ASSOCIATES AT TOYOTA  
IS A KEY PILLAR OF TOYOTA PRODUCTION SYSTEM (TPS)**

# LEAN MASTERCLASS: JUST-IN-TIME SPECIALIZATION

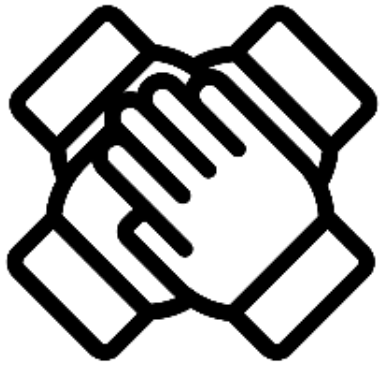
What is Just-In-Time?	What is Key Component # 1 of Just-In-Time?	What is Key Component # 2 of Just-In-Time?	Characteristics of JIT System - Part 01	Characteristics of JIT System - Part 02	Characteristics of JIT System - Part 03
JIT Case Study – Toyota	Section Introduction	Section Introduction	Section Introduction	Section Introduction	Section Introduction
Section Introduction	How is “Teamwork” an Essential Element?	What is Total Quality Control?	What is Uniform Workstation Loads?	What are Quick & Economic Setups?	Flexible Facilities & Multi-Skilled Workforce
What is Just-In-Time?	How is “Discipline” an Essential Element?	What is the Concept of Immediate Customer?	What are Small Lot Sizes?	Analyze Existing Setup Procedures & Separation	Preventive Maintenance
History of Just-In-Time	How is “Supplier Involvement” an Essential Element?	Can JIT be implemented in Small Scale Operations?	What are Closer Supplier Ties?	Convert Internal Setup Activities into External	Continuous Improvement
The Concept of Just-In-Time	Section Conclusion	Activity: Key Components of JIT	How JIT helps maintain High Quality?	Section Conclusion	Activity: JIT Characteristics
Activity: JIT Introduction		Activity Solution: Key Components of JIT	Section Conclusion		Activity Solution: JIT Characteristics
Activity Solution: JIT Introduction		Section Conclusion			Section Conclusion
Section Conclusion					
7 Steps to Implement JIT in Your Organization	Advantages & Disadvantages of JIT System	How does JIT System Eliminate Waste?	How do Suppliers & Customers Work Together in JIT?	Applications of JIT in Service Industry	Course Conclusion
Section Introduction	Section Introduction	Section Introduction	Section Introduction	Section Introduction	Course Conclusion & Summary
Activity: 7 Steps to Implement JIT	Advantages of JIT System	How does JIT System Eliminates Waste? – Part 01	How does Supplier & Customer Work Together? – Part 01	Application of JIT in Service – Part 01	
Activity Solution: 7 Steps to Implement JIT	Disadvantages of JIT System	How does JIT System Eliminates Waste – Part 02	How does Supplier & Customer Work Together? – Part 02	Application of JIT in Service – Part 02	
Section Conclusion	Section Conclusion	Section Conclusion	How does Supplier & Customer Work Together? – Part 03	Section Conclusion	
		What is Active Listening?	Section Conclusion		

# TWO COMPONENTS OF JUST-IN-TIME



**PEOPLE  
INVOLVEMENT**

# 3 KEY ELEMENTS OF PEOPLE INVOLVEMENT



**TEAMWORK**

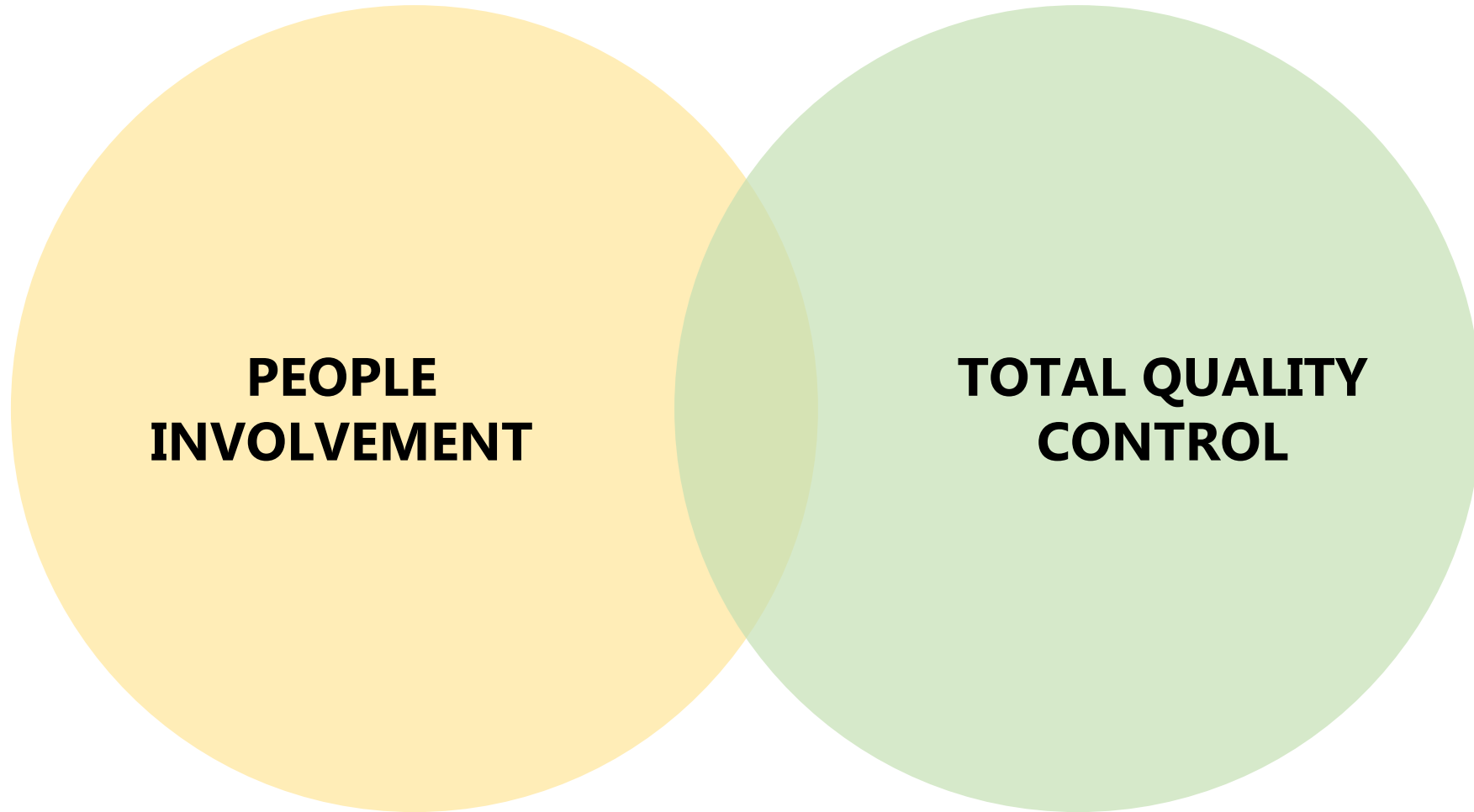


**DISCIPLINE**



**SUPPLIER  
INVOLVEMENT**

# TWO COMPONENTS OF JUST-IN-TIME





# CONCEPT OF IMMEDIATE CUSTOMER

**EACH WORKER CONSIDERS THE NEXT WORKER (WHO CONTINUES THE PROCESS OF PRODUCTION) AS A CUSTOMER**

**IT IS THE RESPONSIBILITY OF THE WORKER TO ENSURE THE PRODUCT MEETS SPECIFICATIONS AND QUALITY REQUIREMENTS**

# LEAN MASTERCLASS: JUST-IN-TIME SPECIALIZATION

What is Just-In-Time?	What is Key Component # 1 of Just-In-Time?	What is Key Component # 2 of Just-In-Time?	Characteristics of JIT System - Part 01	Characteristics of JIT System - Part 02	Characteristics of JIT System - Part 03
JIT Case Study – Toyota	Section Introduction	Section Introduction	Section Introduction	Section Introduction	Section Introduction
Section Introduction	How is “Teamwork” an Essential Element?	What is Total Quality Control?	What is Uniform Workstation Loads?	What are Quick & Economic Setups?	Flexible Facilities & Multi-Skilled Workforce
What is Just-In-Time?	How is “Discipline” an Essential Element?	What is the Concept of Immediate Customer?	What are Small Lot Sizes?	Analyze Existing Setup Procedures & Separation	Preventive Maintenance
History of Just-In-Time	How is “Supplier Involvement” an Essential Element?	Can JIT be implemented in Small Scale Operations?	What are Closer Supplier Ties?	Convert Internal Setup Activities into External	Continuous Improvement
The Concept of Just-In-Time	Section Conclusion	Activity: Key Components of JIT	How JIT helps maintain High Quality?	Section Conclusion	Activity: JIT Characteristics
Activity: JIT Introduction		Activity Solution: Key Components of JIT	Section Conclusion		Activity Solution: JIT Characteristics
Activity Solution: JIT Introduction		Section Conclusion			Section Conclusion
Section Conclusion					
7 Steps to Implement JIT in Your Organization	Advantages & Disadvantages of JIT System	How does JIT System Eliminate Waste?	How do Suppliers & Customers Work Together in JIT?	Applications of JIT in Service Industry	Course Conclusion
Section Introduction	Section Introduction	Section Introduction	Section Introduction	Section Introduction	Course Conclusion & Summary
Activity: 7 Steps to Implement JIT	Advantages of JIT System	How does JIT System Eliminates Waste? – Part 01	How does Supplier & Customer Work Together? – Part 01	Application of JIT in Service – Part 01	
Activity Solution: 7 Steps to Implement JIT	Disadvantages of JIT System	How does JIT System Eliminates Waste – Part 02	How does Supplier & Customer Work Together? – Part 02	Application of JIT in Service – Part 02	
Section Conclusion	Section Conclusion	Section Conclusion	How does Supplier & Customer Work Together? – Part 03	Section Conclusion	
		What is Active Listening?	Section Conclusion		

# WHAT ARE THE CHARACTERISTICS OF JIT? PART 01

## CHARACTERISTICS OF A JIT SYSTEM:

**UNIFORM  
WORKSTATION  
LOADS**

**SMALL  
LOT  
SIZES**

**CLOSER  
SUPPLIER  
TIES**

**MAINTENANCE  
OF  
HIGH QUALITY**

**QUICK &  
ECONOMIC  
SETUPS**

**FLEXIBLE  
FACILITIES &  
MULTI-SKILLED  
WORKFORCE**

**PREVENTIVE  
MAINTENANCE**

**CONTINUOUS  
IMPROVEMENT**

# LEAN MASTERCLASS: JUST-IN-TIME SPECIALIZATION

## What is Just-In-Time?

JIT Case Study – Toyota

Section Introduction

What is Just-In-Time?

History of Just-In-Time

The Concept of Just-In-Time

Activity: JIT Introduction

Activity Solution: JIT Introduction

Section Conclusion

## What is Key Component # 1 of Just-In-Time?

Section Introduction

How is “Teamwork” an Essential Element?

How is “Discipline” an Essential Element?

How is “Supplier Involvement” an Essential Element?

Section Conclusion

## What is Key Component # 2 of Just-In-Time?

Section Introduction

What is Total Quality Control?

What is the Concept of Immediate Customer?

Can JIT be implemented in Small Scale Operations?

Activity: Key Components of JIT

Activity Solution: Key Components of JIT

Section Conclusion

## Characteristics of JIT System - Part 01

Section Introduction

What is Uniform Workstation Loads?

What are Small Lot Sizes?

What are Closer Supplier Ties?

How JIT helps maintain High Quality?

Section Conclusion

## Characteristics of JIT System - Part 02

Section Introduction

What are Quick & Economic Setups?

Analyze Existing Setup Procedures & Separation

Convert Internal Setup Activities into External

Section Conclusion

## Characteristics of JIT System - Part 03

Section Introduction

Flexible Facilities & Multi-Skilled Workforce

Preventive Maintenance

Continuous Improvement

Activity: JIT Characteristics

Activity Solution: JIT Characteristics

Section Conclusion

## 7 Steps to Implement JIT in Your Organization

Section Introduction

Activity: 7 Steps to Implement JIT

Activity Solution: 7 Steps to Implement JIT

Section Conclusion

## Advantages & Disadvantages of JIT System

Section Introduction

Advantages of JIT System

Disadvantages of JIT System

Section Conclusion

## How does JIT System Eliminate Waste?

Section Introduction

How does JIT System Eliminates Waste? – Part 01

How does JIT System Eliminates Waste – Part 02

Section Conclusion

What is Active Listening?

## How do Suppliers & Customers Work Together in JIT?

Section Introduction

How does Supplier & Customer Work Together? – Part 01

How does Supplier & Customer Work Together? – Part 02

How does Supplier & Customer Work Together? – Part 03

Section Conclusion

## Applications of JIT in Service Industry

Section Introduction

Application of JIT in Service – Part 01

Application of JIT in Service – Part 02

Section Conclusion

## Course Conclusion

Course Conclusion & Summary

# 7 HIGH-LEVEL STEPS TO MAKE JIT SUCCESSFUL:

**STABILIZE AND LEVEL  
THE MASTER  
PRODUCTION  
SCHEDULE**

**REDUCE OR ELIMINATE  
SETUP TIMES**

**REDUCE LOT SIZES  
(MANUFACTURING  
AND PURCHASE)**

**REDUCE LEAD TIMES  
(PRODUCTION AND  
DELIVERY)**

**USE IDLE TIME FOR  
PREVENTIVE  
MAINTENANCE**

**CREATE A FLEXIBLE  
WORKFORCE**

**REQUIRE SUPPLIER  
QUALITY ASSURANCE  
AND IMPLEMENT A  
ZERO DEFECT QUALITY  
PROGRAM**

# LEAN MASTERCLASS: JUST-IN-TIME SPECIALIZATION

What is Just-In-Time?	What is Key Component # 1 of Just-In-Time?	What is Key Component # 2 of Just-In-Time?	Characteristics of JIT System - Part 01	Characteristics of JIT System - Part 02	Characteristics of JIT System - Part 03
JIT Case Study – Toyota	Section Introduction	Section Introduction	Section Introduction	Section Introduction	Section Introduction
Section Introduction	How is “Teamwork” an Essential Element?	What is Total Quality Control?	What is Uniform Workstation Loads?	What are Quick & Economic Setups?	Flexible Facilities & Multi-Skilled Workforce
What is Just-In-Time?	How is “Discipline” an Essential Element?	What is the Concept of Immediate Customer?	What are Small Lot Sizes?	Analyze Existing Setup Procedures & Separation	Preventive Maintenance
History of Just-In-Time	How is “Supplier Involvement” an Essential Element?	Can JIT be implemented in Small Scale Operations?	What are Closer Supplier Ties?	Convert Internal Setup Activities into External	Continuous Improvement
The Concept of Just-In-Time	Section Conclusion	Activity: Key Components of JIT	How JIT helps maintain High Quality?	Section Conclusion	Activity: JIT Characteristics
Activity: JIT Introduction		Activity Solution: Key Components of JIT	Section Conclusion		Activity Solution: JIT Characteristics
Activity Solution: JIT Introduction		Section Conclusion			Section Conclusion
Section Conclusion					
7 Steps to Implement JIT in Your Organization	Advantages & Disadvantages of JIT System	How does JIT System Eliminate Waste?	How do Suppliers & Customers Work Together in JIT?	Applications of JIT in Service Industry	Course Conclusion
Section Introduction	Section Introduction	Section Introduction	Section Introduction	Section Introduction	Course Conclusion & Summary
Activity: 7 Steps to Implement JIT	Advantages of JIT System	How does JIT System Eliminates Waste? – Part 01	How does Supplier & Customer Work Together? – Part 01	Application of JIT in Service – Part 01	
Activity Solution: 7 Steps to Implement JIT	Disadvantages of JIT System	How does JIT System Eliminates Waste – Part 02	How does Supplier & Customer Work Together? – Part 02	Application of JIT in Service – Part 02	
Section Conclusion	Section Conclusion	Section Conclusion	How does Supplier & Customer Work Together? – Part 03	Section Conclusion	
		What is Active Listening?	Section Conclusion		



# 7 KEY ELEMENTS THAT ADDRESS ELIMINATION OF WASTE

AIGPE

**FOCUSED  
FACTORY  
NETWORKS**

**GROUP  
TECHNOLOGY**

**QUALITY  
AT  
SOURCE**

**JUST-IN-TIME  
PRODUCTION**

**UNIFORM  
PLANT  
LOADING**

**KANBAN  
PRODUCTION  
CONTROL  
SYSTEMS**

**MINIMIZED  
SETUP TIMES**

# LEAN MASTERCLASS: JUST-IN-TIME SPECIALIZATION

What is Just-In-Time?	What is Key Component # 1 of Just-In-Time?	What is Key Component # 2 of Just-In-Time?	Characteristics of JIT System - Part 01	Characteristics of JIT System - Part 02	Characteristics of JIT System - Part 03
JIT Case Study – Toyota	Section Introduction	Section Introduction	Section Introduction	Section Introduction	Section Introduction
Section Introduction	How is “Teamwork” an Essential Element?	What is Total Quality Control?	What is Uniform Workstation Loads?	What are Quick & Economic Setups?	Flexible Facilities & Multi-Skilled Workforce
What is Just-In-Time?	How is “Discipline” an Essential Element?	What is the Concept of Immediate Customer?	What are Small Lot Sizes?	Analyze Existing Setup Procedures & Separation	Preventive Maintenance
History of Just-In-Time	How is “Supplier Involvement” an Essential Element?	Can JIT be implemented in Small Scale Operations?	What are Closer Supplier Ties?	Convert Internal Setup Activities into External	Continuous Improvement
The Concept of Just-In-Time	Section Conclusion	Activity: Key Components of JIT	How JIT helps maintain High Quality?	Section Conclusion	Activity: JIT Characteristics
Activity: JIT Introduction		Activity Solution: Key Components of JIT	Section Conclusion		Activity Solution: JIT Characteristics
Activity Solution: JIT Introduction		Section Conclusion			Section Conclusion
Section Conclusion					
7 Steps to Implement JIT in Your Organization	Advantages & Disadvantages of JIT System	How does JIT System Eliminate Waste?	How do Suppliers & Customers Work Together in JIT?	Applications of JIT in Service Industry	Course Conclusion
Section Introduction	Section Introduction	Section Introduction	Section Introduction	Section Introduction	Course Conclusion & Summary
Activity: 7 Steps to Implement JIT	Advantages of JIT System	How does JIT System Eliminates Waste? – Part 01	How does Supplier & Customer Work Together? – Part 01	Application of JIT in Service – Part 01	
Activity Solution: 7 Steps to Implement JIT	Disadvantages of JIT System	How does JIT System Eliminates Waste – Part 02	How does Supplier & Customer Work Together? – Part 02	Application of JIT in Service – Part 02	
Section Conclusion	Section Conclusion	Section Conclusion	How does Supplier & Customer Work Together? – Part 03	Section Conclusion	
		What is Active Listening?	Section Conclusion		

# APPLICATIONS OF JIT IN SERVICE

**ORGANIZE  
PROBLEM-  
SOLVING GROUPS**

**UPGRADE  
HOUSEKEEPING**

**UPGRADE  
QUALITY**

**LEVEL THE  
FACILITY LOAD**

**ELIMINATE  
UNNECESSARY  
ACTIVITIES**

**INTRODUCE  
DEMAND-PULL  
SCHEDULING**

# LEAN MASTERCLASS: JUST-IN-TIME SPECIALIZATION

What is Just-In-Time?	What is Key Component # 1 of Just-In-Time?	What is Key Component # 2 of Just-In-Time?	Characteristics of JIT System - Part 01	Characteristics of JIT System - Part 02	Characteristics of JIT System - Part 03
JIT Case Study – Toyota	Section Introduction	Section Introduction	Section Introduction	Section Introduction	Section Introduction
Section Introduction	How is “Teamwork” an Essential Element?	What is Total Quality Control?	What is Uniform Workstation Loads?	What are Quick & Economic Setups?	Flexible Facilities & Multi-Skilled Workforce
What is Just-In-Time?	How is “Discipline” an Essential Element?	What is the Concept of Immediate Customer?	What are Small Lot Sizes?	Analyze Existing Setup Procedures & Separation	Preventive Maintenance
History of Just-In-Time	How is “Supplier Involvement” an Essential Element?	Can JIT be implemented in Small Scale Operations?	What are Closer Supplier Ties?	Convert Internal Setup Activities into External	Continuous Improvement
The Concept of Just-In-Time	Section Conclusion	Activity: Key Components of JIT	How JIT helps maintain High Quality?	Section Conclusion	Activity: JIT Characteristics
Activity: JIT Introduction		Activity Solution: Key Components of JIT	Section Conclusion		Activity Solution: JIT Characteristics
Activity Solution: JIT Introduction		Section Conclusion			Section Conclusion
Section Conclusion					
7 Steps to Implement JIT in Your Organization	Advantages & Disadvantages of JIT System	How does JIT System Eliminate Waste?	How do Suppliers & Customers Work Together in JIT?	Applications of JIT in Service Industry	Course Conclusion
Section Introduction	Section Introduction	Section Introduction	Section Introduction	Section Introduction	Course Conclusion & Summary
Activity: 7 Steps to Implement JIT	Advantages of JIT System	How does JIT System Eliminates Waste? – Part 01	How does Supplier & Customer Work Together? – Part 01	Application of JIT in Service – Part 01	
Activity Solution: 7 Steps to Implement JIT	Disadvantages of JIT System	How does JIT System Eliminates Waste – Part 02	How does Supplier & Customer Work Together? – Part 02	Application of JIT in Service – Part 02	
Section Conclusion	Section Conclusion	Section Conclusion	How does Supplier & Customer Work Together? – Part 03	Section Conclusion	
		What is Active Listening?	Section Conclusion		



**KEEP LEARNING AND KEEP GROWING**