



SESSION PLAN

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| COURSE PARTICULARS | |
|--------------------|--|
| #: EA435 | Title: Production Planning and Control |

| SESSION PARTICULARS | | |
|---------------------|--|--------|
| #: 1 | Title: Introduction to Production Planning and Control | Hrs: 2 |

| LEARNING OUTCOMES / ABILITIES GAINED* | |
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| # | Outcome Description |
| 1 | Discussing the introduction to Production Planning and Control |
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| Prepared by: | Approved by: |
| Designation | Designation |
| Name Dr. Amr Abd El Aziz | Name Dr. Amr Abd El Aziz |
| Sign  | Sign  |
| Date 1/9/2010 | Date 1/9/2010 |

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Source Material

Williams J. Stevenson: Operations Management, 8th edition

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| #: 2 | Title: Quality Control: Inspection | Hrs: 2 |
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LEARNING OUTCOMES / ABILITIES GAINED*

| # | Outcome Description |
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| 1 | Explaining the elements of the control process |
| 2 | Explaining how control charts are used to monitor process, and the concepts that underlie their use |
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1 of 2

MPC3/3-1

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| #: 3 | Title: Quality Control: Statistical process control (Control charts for variables) | Hrs: 2 |
|------|--|--------|

LEARNING OUTCOMES / ABILITIES GAINED*

| # | Outcome Description |
|-------|---|
| 1. | Problems on Statistical Process Control - Control charts for variables |
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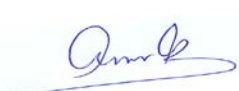
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| #: EA435 | Title: Production Planning and Control |

| SESSION PARTICULARS | | |
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| #: 4 | Title: Quality Control: Statistical process control (Control charts for attributes) | Hrs: 2 |

| LEARNING OUTCOMES / ABILITIES GAINED* | |
|---------------------------------------|---|
| # | Outcome Description |
| 1. | - Problems on Control charts for attributes |
| 2. | - Problems on Run tests |
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| #: 5 | Title: Quality Control: Process Capability | Hrs: 2 |

| LEARNING OUTCOMES / ABILITIES GAINED* | |
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| # | Outcome Description |
| 1. | Problems on Process Capability |
| 2. | Problems on Acceptance Sampling |
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| #: EA435 | Title: Production Planning and Control |

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| #: 6 | Title: Inventory Management: Economic Order Quantity Models (EOQ) | Hrs: 2 |

| LEARNING OUTCOMES / ABILITIES GAINED* | |
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| # | Outcome Description |
| 1. | How much to order: Economic Order Quantity Models - Problems on Basic Economic Order Quantity (EOQ) Model |

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| #: EA435 | Title: Production Planning and Control |

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| #: 7 | Title: 7 th week exam | Hrs: 2 |

| LEARNING OUTCOMES / ABILITIES GAINED* | |
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| # | Outcome Description |
| | Solving the 7 th week exam as model answer |
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| #: EA435 | Title: Production Planning and Control |
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SESSION PARTICULARS

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|------|---|-------|
| #: 8 | Title: Inventory Management: Reorder Point (ROP) and Quantity Discounts | Hrs:2 |
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LEARNING OUTCOMES / ABILITIES GAINED*

| # | Outcome Description |
|-------|--|
| 1. | Problems on Economic Production Quantity (EPQ) |
| 2. | Problems on Quantity Discounts |
| 3. | Problems on ROP |
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| #: EA435 | Title: Production Planning and Control |

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| #: 9 | Title: Aggregate Planning: Techniques for Aggregate Planning | Hrs: 2 |

| LEARNING OUTCOMES / ABILITIES GAINED* | |
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| # | Outcome Description |
| | Techniques for Aggregate Planning - Problems on Trial-and-Error techniques using graphs and spreadsheets - Problems on Mathematical techniques: Transportation problem |
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| #: EA435 | Title: Production Planning and Control |

| SESSION PARTICULARS | | |
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| #: 10 | Title: Aggregate Planning: Master Scheduling | Hrs: 2 |

| LEARNING OUTCOMES / ABILITIES GAINED* | |
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| # | Outcome Description |
| 1. | Problems on Master Scheduling |
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| #: EA435 | Title: Production Planning and Control |

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| #: 11 | Title: Material Requirements Planning (MRP) | Hrs: 2 |

| LEARNING OUTCOMES / ABILITIES GAINED* | |
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| # | Outcome Description |
| 1. | Problems on MRP problem (Product structure Tree) |
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| #: EA435 | Title: Production Planning and Control |
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SESSION PARTICULARS

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| #: 12 | Title: 12 th week exam , Material Requirements Planning (MRP) (continued) | Hrs: 2 |
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LEARNING OUTCOMES / ABILITIES GAINED*

| # | Outcome Description |
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| 1. | Solving 12 th week exam as model answer |
| 2. | Problems on MRP |
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| #: EA435 | Title: Production Planning and Control |

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|---------------------|----------------------------|--------|
| #: 13. | Title: Scheduling: Loading | Hrs: 2 |

| LEARNING OUTCOMES / ABILITIES GAINED* | |
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| # | Outcome Description |
| 1. | Scheduling Operations Problems on Assignment Problems |
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| #: EA435 | Title: Production Planning and Control |
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SESSION PARTICULARS

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| #: 15 | Title: Scheduling: Sequencing Jobs through Two Work Centers | Hrs: 2 |
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LEARNING OUTCOMES / ABILITIES GAINED*

| # | Outcome Description |
|-------|--|
| 1. | Problems on Scheduling: Sequencing Jobs through Two Work Centers |
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