# E217 ESE Revision

- Lesson 1:
  - **Perform EOQ calculations to determine: EOQ**, Optimal Total Annual Inventory Costs, Optimal Annual Order Frequency, Average Inventory Level
  - State the assumptions of the EOQ Model

- Lesson 2:
  - **Apply quantity discount to the basic EOQ Model**
  - Calculate the optimal order quantity and optimal total costs for a given case-study

- Lesson 3:
  - Calculate the appropriate level of safety stock and reorder point for a specified customer service level
  - **Calculate the total cost per unit time when backorders are allowed versus backorders are not allowed**

# E217 ESE Revision

- Lesson 4:
  - Identify the appropriate inventory review system to be used

- Lesson 5:
  - Describe the Bullwhip Effect: Background; Major Causes; Consequences; Strategies to cope with

- Lesson 6:
  - Recommend effective inventory reduction strategies for a given business case-study
  - **Perform ABC classification** and determine the counting schedule

# E217 ESE Revision

- Lesson 7:
  - Identify the GS1 standards used for barcoding
  - Describe the flows in a barcoding system

- Lesson 8:
  - Describe perishables and the appropriate inventory model to be used
  - **Perform calculations for demand frequency and probability**
  - **Perform Marginal Analysis for discrete demand, seasonal or perishable goods**

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- Lesson 9:
  - **Calculate the outputs from MRP: Planned order release in terms of order quantity and schedule**
  - Know the various MRP Lot Sizing techniques and perform calculations for a given case-study: LFL and FOQ (EOQ)

- Lesson 10:
  - Discuss the key building blocks of SAP
  - Discuss the organizational elements & Master Data used by PP module
  - **Interpret MRP outputs by using stock/requirement list**

- Lesson 11
  - Describe the push, pull and push-pull strategies
  - **Describe the Vendor Managed Inventory (VMI) fulfillment process**

# E217 ESE Revision

- Lesson 12
  - Discuss the function and role of Kanban cards
  - **Explain how single-card & dual-card Kanban systems work**

- Lesson 13
  - Describe the concepts of First-In-First-Out (FIFO), Last-In-First-Out (LIFO) and Average Costing
  - **Perform inventory valuations by using FIFO, LIFO and Average Costing respectively: Calculate COGS; Calculate Revenue; Calculate Gross Profit; Calculate After Tax Income**

# E217 ESE Clinics and Workshop

- On-line Discussion Forum (from now on)
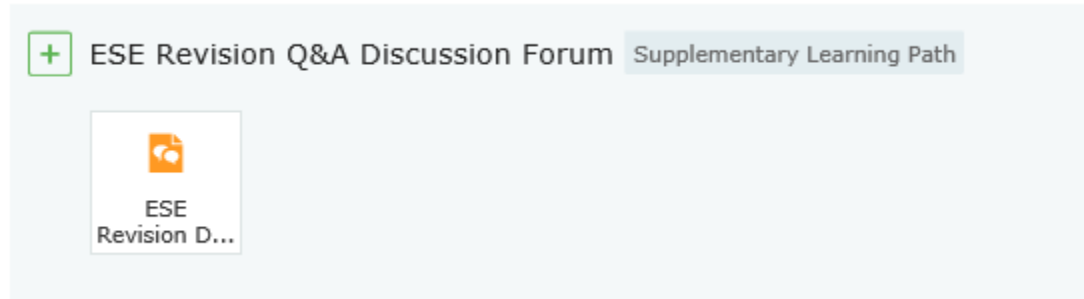


- Workshop
  - 21 Aug 2018, Tue, 12pm ~ 130pm **@ LR-W5**


- ESE Date and Time
  - 28 Aug 2018, Tue, 1pm ~ 3pm