



**IBM**

**C2180-606**

*IBM WebSphere Business Modeler Advanced Edition V7.0  
Business Analysis and Design*

**QUESTION: 103**

A future state process has been modeled and validated using simulation. Simulation results have indicated that it is optimal and meets process improvement requirements. The process owners have determined the implementation costs for new hardware, development and employee training to support the new process. Using the Process Break Even dynamic analysis report, how can the process analyst determine when the process will start generating a net profit?

- A. 1. Specify the process availability start date, anticipated throughput and total process implementation cost for the future state process.  
2. The analysis will determine the process break even date, after which the process will begin to generate a net profit.
- B. 1. Specify the total process implementation cost for the future state process.  
2. The analysis will determine the process break even date, after which the process will generate a net profit.  
3. The analysis will use the simulation attribute values for process availability and process throughput as parameters for this calculation.
- C. 1. Specify the anticipated throughput and total process implementation cost for the future state process.  
2. The analysis will determine the process break even date, after which the process will begin to generate a net profit.  
3. Run simulation analysis again, setting the value of tokens to be generated to equal the current annual throughput and starting the simulation on the next available date.  
4. Determine the end date and time for the final process instance by running the Process Cases Summary upon the results. This will be the process break even date, after which the process will begin to generate a net profit.
- D. 1. Specify the anticipated throughput and total process implementation cost for the future state process.  
2. The analysis will determine the number of process invocations that must be executed to generate a net profit.  
3. Run simulation analysis again, setting the value of tokens to be generated to equal the total invocations value provided from the Process Break Even analysis and starting the simulation on the process deployment date.  
4. Determine the end date and time for the final process instance by running the Process Cases Summary upon the results. This will be the process break even date, after which the process will begin to generate a net profit.

**Answer: D**

**QUESTION: 104**

A process analyst attempts to analyze a process using simulation and finds that the simulation is not running successfully. Which static analysis report should the process analyst use to determine if looping paths are preventing the simulation from running properly?

- A. Path cycles

- B. Activity throughput
- C. Path unable to be followed
- D. Process instance critical path

**Answer:** A

**QUESTION:** 105

A process analyst at a bank needs to quickly set up and run a simulation for the current loan process. This is a high-level process that lacks details. There are no details available about the values of input and output data. The bank manager has provided statistics of 70% approval rate and 30% rejection rate for this process. What kind of decision and simulation should be applied?

- A. Simple decision with expression-based simulation.
- B. Simple decision with probability-based simulation.
- C. Multiple-choice decision with expression-based simulation.
- D. Multiple-choice inclusive decision with probability-based simulation.

**Answer:** B

**QUESTION:** 106

Refer to Exhibit.

| Activity Name | Allocated Resource or Role Name | Average Allocation Duration | Average Shortage Duration    |
|---------------|---------------------------------|-----------------------------|------------------------------|
| Process 1     |                                 |                             |                              |
| [-] Wash Car  |                                 |                             |                              |
|               | Washers                         | 15 minutes                  | 8 hours 8 minutes 15 seconds |
|               | Water                           | 15 minutes                  | 8 hours 8 minutes 15 seconds |

A process analyst has performed simulation upon a business process and is analyzing the resource allocation within the process. After running the Process Resource Allocation Dynamic Analysis Report, it is observed that there is significant Average Shortage Duration on the "Wash Car" task within the process for both allocated bulk resources. The process analyst observes that the Water bulk resource has been defined as "Consumable" and has a sufficient Available Quantity value defined in order to support simulation input token generation. However, other tasks within this process also consume water. The Washer bulk resource is not allocated for any other activity in the process. Based on this information, what conclusions can the process analyst draw in regards to reducing the average resource shortage durations?

- A. Water is a consumable resource and therefore can not be reused. Once no more units of Water are available to a process simulation, the lack of availability is reflected in the Average Shortage Duration. Increasing the available units for both the Water and Washer

resources will reduce the Average Shortage Durations for the task.

B. Water is a consumable resource and therefore can be reused. Because of this, other tasks that are using the Water units are preventing the Wash Car activity from allocating units of Water to perform the task. This lack of availability is reflected in the Average Shortage Duration. Increasing the available units for the Water resource will reduce the Average Shortage Duration for the task.

C. Water is a consumable resource and therefore can not be reused. Uncheck the Water bulk resource's Consumable option to make it reusable. Now, other tasks within the process can reuse the Water resource and will not have to wait to allocate it. Therefore, the Average Shortage Duration will decrease for the Water bulk resource.

D. There is no Average Shortage Duration for the Water bulk resource. The resource shortage occurs because of unavailable Washers, and this shortage duration is also reflected for the Water bulk resource as the task waits for all resources to become available before starting. Increasing the number of available Washer resources will reduce the Average Shortage Duration reflected for both Washers and Water.

**Answer:** D

**QUESTION:** 107

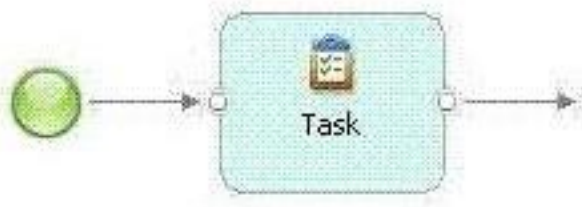
A process analyst needs to determine the average cost and duration of all of the quality assurance activities compared to non-quality assurance activities in the current ordering process. Which of the following reports should be used?

- A. Classifier cost and duration report
- B. Process case summary report
- C. Process classifier cost and duration report
- D. Process classifier weighted average report

**Answer:** D

**QUESTION:** 108

Refer to the Exhibit.



The process analyst needs to simulate the process with the following business attributes: Total number of customer information business item received for the process = 100 Business items arrived at a rate of 1 per minute. How should the inputs business items be modeled in the simulation profile?

A. Set in the Profile Attribute - Input Tab the following:

- Total number of tokens = 100
- Time trigger: Time between bundle= 1 minute

B. Set in the Profile Attribute - Input Tab the following:

- Number of tokens per bundle = 100
- Time trigger: Time between bundle = 1 minute

C. Start from the process input instead of the start node. Set in the Profile Attribute - Input Tab the following:

- Total number of tokens = 100
- Time trigger: Time between bundle = 1 minute

D. Start with the process input instead of the start node. Set in the Profile Attribute - Input Tab the following:

- Number of tokens per bundle = 100
- Time trigger: Time between bundle = 1 minute

**Answer:** C

**QUESTION:** 109

A process analyst needs to simulate a printing process in a print shop. In a typical day, the printing machine will start running at 8 o'clock in the morning, and take approximately 2 hours to warm up. Then it will start running efficiently for the rest of the day. The printing machine will run for 7 hours and stop at 5 o'clock in the afternoon. Which of the following settings should be used to simulate this scenario for a typical day?

- A. Set 7 hours for maximum simulation duration.
- B. Set 2 hours for the Delay for steady state simulation.
- C. Set process availability ends at 5 o'clock in the afternoon.
- D. Set process availability starts at 10 o'clock in the morning.

**Answer:** B

**QUESTION:** 110

A company specializing in holiday packages needs to finalize the resource planning for the summer period. Which attribute should a process analyst define to fulfill this requirement if the process availability is set for a period of 12 months starting in January?

- A. Delay for state simulation set to 5 months.
- B. Delay for process simulation set to 5 months.
- C. Delay for steady state simulation set to 150 days.
- D. Delay for process availability simulation set to 150 days.

**Answer: C**

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