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## IoT Manufacturing Connected Factory for SEs (500-801)

**Exam Description:** The IoT Manufacturing Connected Factory for SEs (500-801) exam is a 60-minute, 45–55 question assessment that is associated with the Cisco IOT Manufacturing Systems Engineering Representative program. This exam is for partner SEs who want to gain a Cisco Partner Certification in IoT. Topics include solution components, design considerations, and partner opportunities for Cisco Validated Automation and Wireless solutions. Candidates can prepare for this exam by taking the IoT Technical Training for Cisco Connected Factory course.

The following topics are general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. In order to better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.

- 10%**    **1.0**    **Characteristics of the Manufacturing Industry**
  - 1.1 Describe the characteristics of the manufacturing industry
  - 1.2 Define the total addressable market for Connected Factories
  - 1.3 Describe the security principles used in the discrete manufacturing environment
  
- 5%**    **2.0**    **Cisco Connected Factory Helps Customers Overcome Challenges**
  - 2.1 Describe how Connected Factory helps customers overcome challenges
  - 2.2 Identify the characteristics of potential Connected Factory customers, buyers, and their technical “care abouts”
  
- 17%**    **3.0**    **Cisco Validated Design**
  - 3.1 Recognize the Cisco Validated Design, deployment models, and use cases in the discrete manufacturing industry
  - 3.2 Define the components of the Cisco Validated Design
  
- 5%**    **4.0**    **Cisco Strengths**
  - 4.1 Describe the Cisco strengths that are relevant to competing in the discrete manufacturing industry
  - 4.2 Describe the value of Cisco ecosystem partners
  - 4.3 Define the technical strengths of Cisco
  
- 3%**    **5.0**    **Compliance and Regulation**
  - 5.1 Describe how compliance and regulation mesh with the Connected Factory
  
- 7%**    **6.0**    **Professional Services**
  - 6.1 Describe how to engage Cisco Services to design a Connected Factory solution for a customer
  - 6.2 Describe the process of designing a Connected Factory solution

- 13%**    **7.0**    **Connected Factory: Automation**
  - 7.1    Describe the Connected Factory Automation solution overview
  - 7.2    Describe Connected Factory Automation solution components
  
- 40%**    **8.0**    **Connected Factory: Wireless**
  - 8.1    Describe Connected Factory Wireless solution architectures
    - 8.1.a    Describe specifics of Connected Factory Unified Architecture
    - 8.1.b    Describe specifics of autonomous architecture