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Overview
A Milestone Certified Design Engineer (MCDE) should have the ability to design Milestone IP surveillance systems of high complexity.

In order for Milestone to attest that you have this knowledge and these skills, you must pass an MCDE assessment that may touch on any of the tasks listed in following section. The assessment will include test items associated with any of the following tasks, concepts, and product features:

- Define surveillance objectives
- Complete a site survey
- Define image quality
- Select cameras and determine placement
- Identify workstation and displays
- Identify key system requirements
- Select product and product features
- Specify network topology and bandwidth
- Create a proposal and determine licensing
- Define system and operator behaviors

Before you take the MCDE assessment, ensure that you have the knowledge and skills to perform all tasks and steps listed above by consulting the list of resources provided in this document. You are allowed to access these resources during the test. However, you have only two hours to complete the test and you must already be very familiar with the entire list of content here for you to be successful.

eLearning
You can access Milestone eLearning courses by following the link below and logging into the Partner Learning Portal:


The Milestone Design Engineer training track includes eLearning courses that directly support preparation for the MCDE.

Training Track information is available in the eLearning section of the Partner Learning Portal.

Coursework:
- The Milestone Solution Design course
  https://learn.milestonesys.com/scheduledclasses
Whitepapers:

- XProtect Expert and XProtect Corporate - System Architecture Guide for IT Professionals
  https://content.milestonesys.com/media/?mediaId=3B565268-FC36-4709-8C6D849AEB8906E5
- Edge storage with flexible retrieval
  https://content.milestonesys.com/media/?mediaId=4B031BBA-0E6B-456C-A5801FDE462E5742
- XProtect Corporate Advanced Security Management
  https://content.milestonesys.com/media/?mediaId=C5F6BBD5-23E9-4DDD-BE4512B071D4F37E
- Milestone Interconnect
  https://content.milestonesys.com/media/?mediaId=9AE6F92D-AC55-44E3-A9946DD46AC0C75A
- Milestone Federated Architecture
  https://content.milestonesys.com/media/?mediaId=14F9CE33-63C3-4971-ABA42412DB68B670
- Ensuring end-to-end video integrity
  https://content.milestonesys.com/media/?mediaId=F3ECA5EE-FCE1-45A3-BC3B07D0C965AF57
- XProtect Smart Client Hardware acceleration guide

Manuals and supporting documents:

- XProtect Corporate Administrators’ Manual
- Milestone Mobile Server Manual
- XProtect Smart Client User’s Manual
- Milestone Mobile Client Manual

Web resources:

- Product comparison PDF (supported camera-related features)
  https://content.milestonesys.com/media/?mediaId=462CC41E-6D0F-4BB4-8B4EEB1F0030C2CF
- Supported devices list
  https://www.milestonesys.com/community/business-partner-tools/supported-devices/
- XProtect Corporate system requirements
  https://www.milestonesys.com/support/resources/system-requirements/
- Interconnect capability chart

Other resources:
- Milestone price list (CARE, licensing details)
- JPEG storage calculator
  https://www.milestonesys.com/storagecalculatorjpeg/
- Camera manufacturer datasheets, calculators, etc.
- Lens calculator (online, phone app)
  For example: http://www.theiatech.com/calculator/