NX CAD Design Certification

Study guide

Frequently asked questions, sample questions and preparatory learning path

Frequently asked questions

Academic users can receive special recognition for their knowledge and proficiency with NX™ software with the NX CAD Design Certification. NX is a part of the Xcelerator™ portfolio, a comprehensive and integrated portfolio of software and services from Siemens Digital Industries Software.

Who should attempt certification?

Certification is for any academic user seeking to validate their knowledge of NX software. Anyone who uses NX as part of their academic activities, including students and educators, can benefit from the program by emphasizing their skills and knowledge with certification from Siemens Digital Industries Software.

What version of NX is the exam based on?

The exam is based on the 1899 release of NX. In order to complete the exam, the user will need to have either 1899 or a later release installed, or the free student download.

How much does the certification exam cost?

The NX CAD Design Certification exam is free of charge.

What happens if you do not pass the exam?

You may retake the exam at any time; there is no required waiting period between exams. You may retake the exam as many times as you like.

How long does certification last?

The certification is valid for a period of three years.

What you will receive when you become certified?

When you earn the NX CAD Design Certificate, you earn the right to share this designation to market your NX skills (on business cards, resumes and websites, including the NX Community site). You will also receive a certificate in PDF format as well as a digital badge.

How long does the exam take?

The certification exam consists of nine questions and users have up to three hours to complete the exam.

Where can I find the exam?

You will find the exam here. Make sure you follow the instructions for registering!
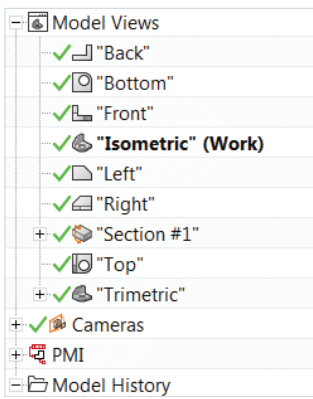
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Note that these examples demonstrate the type of question you will encounter on the exam, but are not actual exam questions.

Sample test questions

Sample question 1

From Model Navigator, which view or views currently contains PMI entities?

A. Isometric
B. Left
C. Top
D. Section #1 and Trimetric

Sample question 2

PMI entities can be displayed or shown on the assembly level, users must first:

A. Display all the PMI in all the views

B. Create PMI only on assembly level

C. Add filter in PMI assembly filters

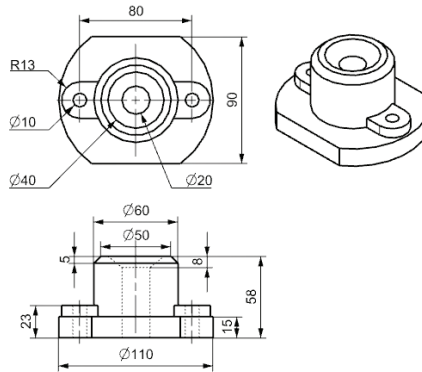D. Copy the PMI from the component level and paste into assembly
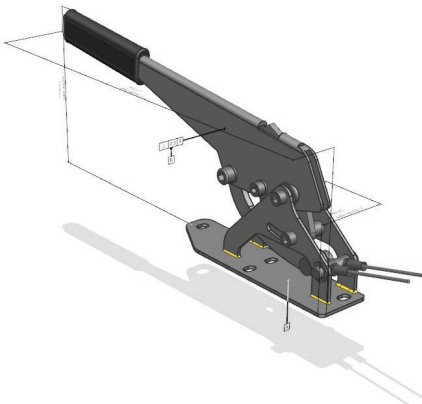
Sample question 3

Draw the sketch and calculate the area of the shaded region shown.
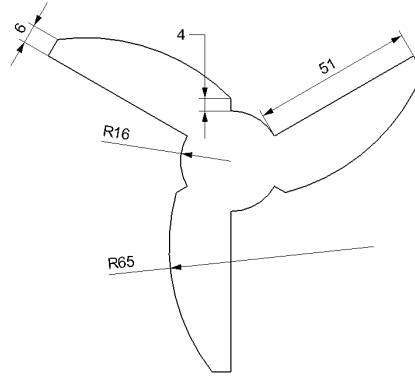
Sample question 4

Draw the model and calculate the volume.

Sample question 5

Open the given assembly. Add constrain to the component and the components are caster_fork, caster_axle and caster_wheel.

Add "2 to 2 center" constrain between "piston pin" and "piston".

Add "2 to 2 center" constrain between "connecting rod" and "piston".

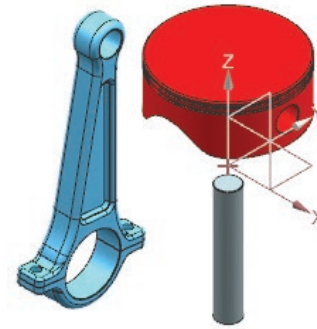Add "Touch Align" constrain between "connecting rod" and "pistion pin".

Add "Touch Align" constrain between "piston pin" and "pistion".

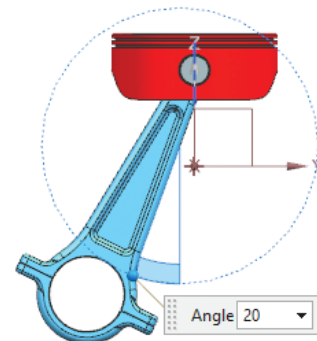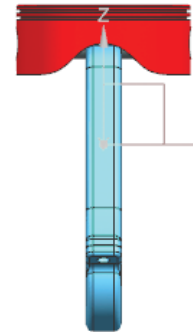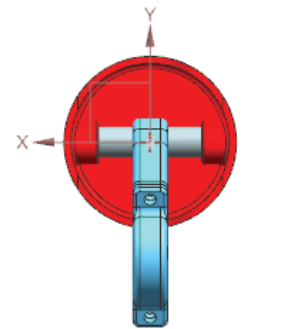Add "Angle" constrain between "TestingPart_8" and "connecting rod".

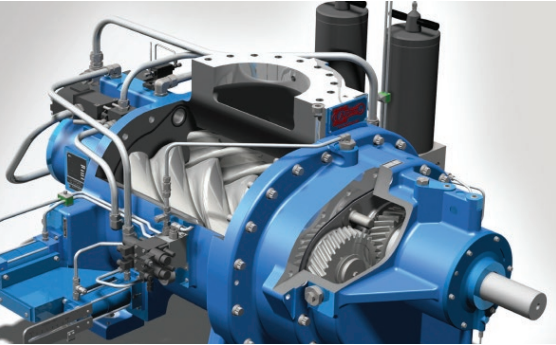Calculate center of mass (Xcbar, Ycbar, Zcbar) of whole assembly.

Sample question 5 *continued*

Before:

After:

Suggested learning path

We strongly suggest the use of Learning Advantage for exam preparation. All schools with active Siemens Digital Industries Software license agreements have free, unlimited access to Learning Advantage for all faculty and students. Learn more about free access to Learning Advantage at the FAQ.

Your first day with NX

Make design changes

Create basic models from sketches

Using NX Sketcher

Fit the pieces together

Create and update a drawing

Organize models

Design parts with sketches

Create a basic assembly

Constrain assemblies

Manage assemblies

Introduction to synchronous modeling

Synchronous modeling in NX

Your first day with NX assemblies

Creating assembly components

Working with NX assemblies

Constraining assembly components

Creating PMI dimensions and centerlines

Adding GD&T PMI to your model

Drafting fundamentals and drawing creation

Add drafting views

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