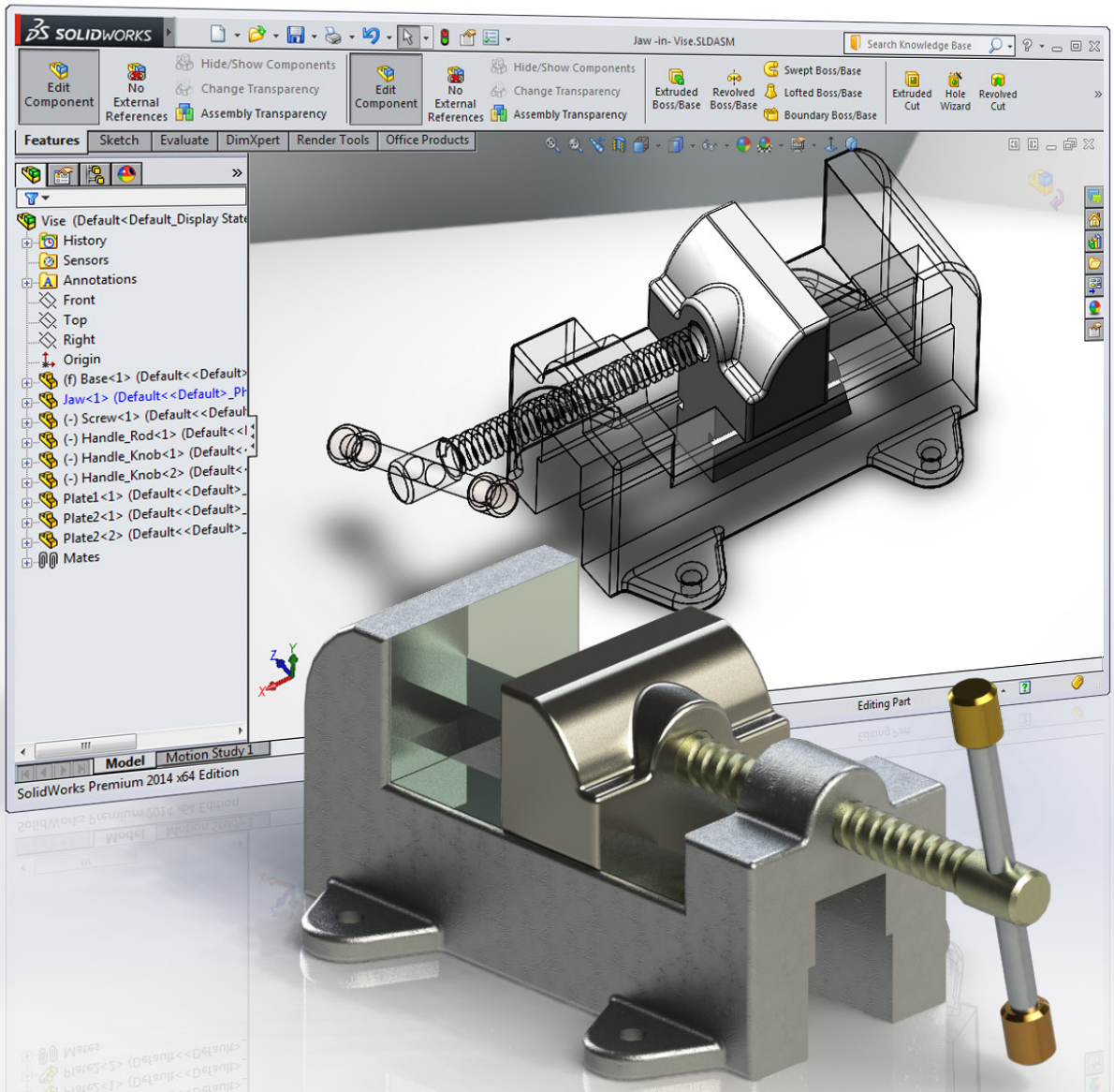
Parametric Modeling with SolidWorks® 2014

Covers material found on the CSWA exam



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Certified SolidWorks Associate (CSWA) Exam Overview

The Certified SolidWorks Associate (CSWA) Exam is a performance-based exam. The examination is comprised of 10 – 20 questions to be completed in three hours. The test items will require you to use the *SolidWorks* software to perform specific tasks and then answer questions about the tasks.

Performance-based testing is defined as ***Testing by Doing***. This means you actually perform the given task then answer the questions regarding the task. Performance-based testing is widely accepted as a better way of insuring the user has the skills needed, rather than just recalling information.

The CSWA examination is designed to test specific performance tasks in the following areas:

Sketch Entities – lines, rectangles, circles, arcs, ellipses, centerlines

Objectives: Creating Sketch Entities.

Sketch Tools – offset, convert, trim

Objectives: Using Sketch Tools.

Sketch Relations

Objectives: Using Geometric Relations.

Certification Examination Performance Task	Covered in this book on Chapter – Page

Boss and Cut Features – Extrudes, Revolves, Sweeps, Lofts

Objectives: Creating Basic Swept Shapes.

Certification Examination Performance Task	Covered in this book on Chapter – Page

Fillets and Chamfers

Objectives: Creating Fillets and Chamfers.

Certification Examination Performance Task	Covered in this book on Chapter – Page

Linear, Circular, and Fill Patterns

Objectives: Creating Patterned Features.

Certification Examination Performance Task	Covered in this book on Chapter – Page

Dimensions

Objectives: Applying and Editing Smart Dimensions.

Certification Examination Performance Task	Covered in this book on Chapter – Page

Feature Conditions – Start and End

Objectives: Controlling Feature Start and End Conditions.

Certification Examination Performance Task	Covered in this book on Chapter – Page
Extruded Boss/Base, Blind	2-15
Extruded Cut, Through All	2-30
Extruded Cut, Up to Next	3-25
Extruded Boss/Base, Mid-Plane	4-13
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Mass Properties

Objectives: Obtaining Mass Properties for Parts and Assemblies.

Certification Examination Performance Task	Covered in this book on Chapter – Page
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View Mass Properties of an Assembly	16-29
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Materials

Objectives: Applying Material Selection to Parts.

Certification Examination Performance Task	Covered in this book on Chapter – Page
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Inserting Components

Objectives: Inserting Components into an Assembly.

Certification Examination Performance Task	Covered in this book on Chapter – Page
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Standard Mates – Coincident, Parallel, Perpendicular, Tangent, Concentric, Distance, Angle

Objectives: Applying Standard Mates to Constrain Assemblies.

Certification Examination Performance Task	Covered in this book on Chapter – Page

Reference Geometry – Planes, Axis, Mate References

Objectives: Creating Reference Planes, Axes, and Mate References

Certification Examination Performance Task	Covered in this book on Chapter – Page

Drawing Sheets and Views

Objectives: Creating and Setting Properties for Drawing Sheets; Inserting and Editing Standard Views.

Certification Examination Performance Task	Covered in this book on Chapter – Page

Annotations

Objectives: Creating Annotations.

Certification Examination Performance Task	Covered in this book on Chapter – Page