

Autodesk Moldflow Certification

Autodesk has three levels of certification, all building on each other. The certification is for Autodesk Plastics Insight. The levels of certification include:

- Associate (formerly Bronze)
- Professional (formerly Silver)
- Expert (formerly Gold)

All of the certification levels require a high level of knowledge, not only of using Moldflow, but injection molding, part design and mold design. The required procedure and information necessary for the exams is described below.

Associate Certification

To properly prepare to become Associate certified users should attend the proper training classes. For new and existing Autodesk Moldflow Insight users who have not been to a formal training class in two years, users should complete the class Learning **Autodesk Moldflow Insight Basic**. The questions on the test are based primarily on the theory and concepts section of the training material. Topics are related to filling and packing and include:

- Analysis workflow
- Feed systems
- Gate location design guidelines
- General product design
- General tool design
- Injection molding process
- Materials
- Model preparation
- Moldflow design principles
- Molding window
- Results interpretation

Without significant review of this material, passing the test will be difficult. Autodesk Moldflow Insight should be used on several projects before taking the exam. Also, you should attend a review session for the test to refresh you on some topics that are on the exam but are not used on a regular basis.

The test consists of multiple60 choice questions on the topics described above.

The exam uses the following:

- Adobe Acrobat Reader to view the questions.
- Excel to place answers in a spreadsheet provided.

Passing the test requires a score of 80% or greater.

Professional Certification

Autodesk Moldflow Insight users must be Associate certified, plus users must complete the classes ***Productivity with Autodesk Moldflow Insight*** and ***Autodesk Moldflow Insight Performance***.

The questions on the test are based primarily on the theory and concepts section of the training material. Topics are related to filling, packing, cooling, warpage, and include:

- Anchor plane setup
- Cooling analyses & results
- DOE
- Filling analyses
- Gate location options
- Modeling
- Molding Window
- Packing Analyses
- Results: Cooling, Flow, Warpage

Without significant review of this material, passing the test will be difficult. Autodesk Moldflow Insight should be used on several projects before taking the exam. Also, you should attend a review session for the test to refresh you on some topics that are on the exam but are not used on a regular basis.

The test includes a theoretical portion and a practical portion. The theoretical portion consists of multiple choice questions on the topics described above. The practical portion has multiple choice questions related to issues and procedures necessary to set up an analysis, set anchor planes and review results.

The exam uses the following:

- Adobe Acrobat Reader to view the questions.
- Excel to place answers in a spreadsheet provided.
- Autodesk Moldflow Insight to mesh and cleanup a model.
- Autodesk Moldflow Communicator to view results provided.

Passing the test requires a score of 80% or greater for the overall test, and 80% for flow, cool and warp related questions in the practical portion of the test.

Both Associate and Professional exams

If you have not passed the exam on the first attempt, you are allowed to take the test again. Feedback is provided to you on the test so the areas that need improvement can be studied. A refresher course should be taken before the second attempt.

If on the second attempt the exam is not passed, you must wait 6 months before taking it again.

Expert Certification

Autodesk Moldflow Insight users must be **Professional** certified for at least one year in order to qualify to take the Expert exam. The exam consists of 3 sections including:

- Presentation.
- Theoretical.
- Practical.

Presentation

The presentation is about of work previously done showing correlation between their analysis work and molded parts. The work must include at least:

- Flow.
- Cool.
- Warp.

Theoretical

The theoretical section involves:

- Reviewing a meshed part to check the suitability for analysis.
- Determine the workflow required to solve a series of problems for a given part.
- Interpret flow, cool, and warp results to determine if they meet the analysis objectives.

Practical

The practical portion of the test involves solving problems of a given part including:

- Flow.
- Cool.
- Warp.

You can choose one of 3 parts, a midplane part, Dual Domain part, and a 3D part. The parts are meshed for you. Work will focus on solving the warpage problem, given constraints for each part.

The exam uses the following:

- Adobe Acrobat Reader to view the questions.
- Word to write answers on answer sheets provided.
- Autodesk Moldflow Insight to mesh and cleanup a model.
- Autodesk Moldflow Communicator to view results provided.

Time required

The Expert test is limited to 16 hours for the theoretical and practical portions of the test. Passing the test requires a score of 80% or greater. If the test is not passed, you will need to wait one year before taking it again.