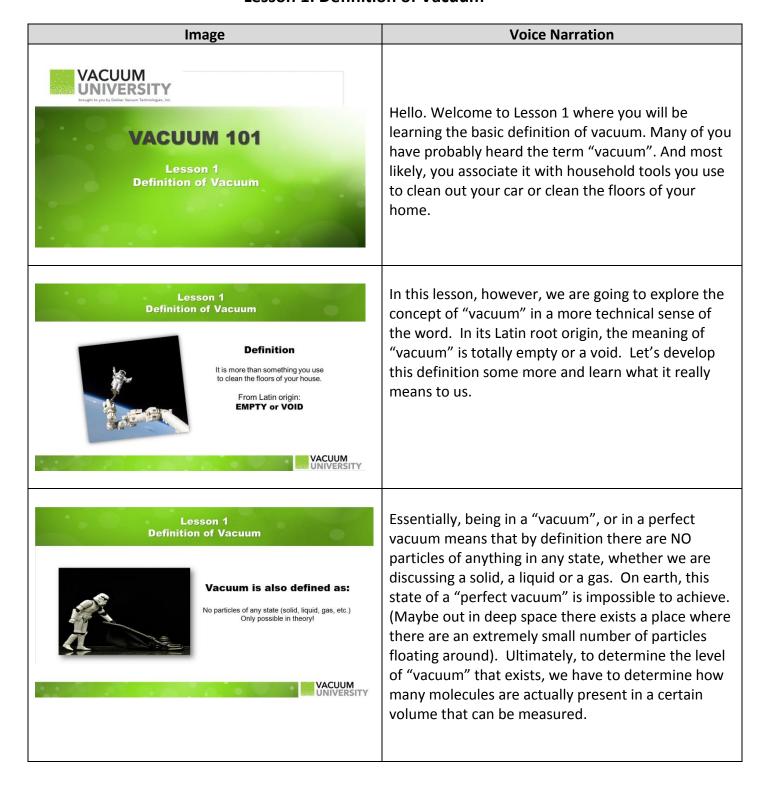
Vacuum University 101 SCRIPT Lesson 1: Definition of Vacuum





VACUUM

a cylinder. But it was a man by the name of Torricelli who invented the first Mercury filled tubes called "manometers" in 1643. Hence, Torricelli's name shortened to "Torr" was used as the first measurement of pressure exerted by the weight of a column of Mercury. The weight in the column of mercury 1 mm tall became defined as "1 Torr" (Torr). This is essential for understanding how to measure vacuum and is a measurement and is still a term used today!

Lesson 1 Definition of Vacuum

Creating a Vacuum

Low vacuum - drinking straw Higher vacuum - vacuum pump

Devices are created which remove molecules to create a vacuum





Vacuum can be created in many different ways. An example of low vacuum in everyday life is when drinking with a straw. In order to achieve a greater or higher level of vacuum, a vacuum pump or device must be used to create a pressure below atmospheric pressure inside a closed vessel or piping system. The function of a vacuum pump or device is to remove molecules in order to create vacuum.

Lesson 1 Definition of Vacuum

VACUUM PUMP

A large variety of pumps

Used for numerous purposes

More about this later...



VACUUM

A greater understanding of vacuum along with advances in technology has enabled us to artificially create vacuum using a large variety of pumps or other vacuum inducing devices for numerous purposes. More will be learned about this in the 102 level courses.

Lesson 1 Definition of Vacuum

Review

- 1) Vacuum is defined as void or empty
- 2) Vacuum occurs when pressure falls below atmospheric pressure
- 3) Pumps are used to create a vacuum

So let's review our first lesson on Definition of Vacuum. The most basic definition of vacuum is something that's void or empty, and in more practical terms, any time that the pressure falls under atmospheric pressure. That way, you have fewer molecules colliding with each other, in other words, applying pressure upon you. Also, today we have many types of pumps that create vacuum for a variety of purposes.



Lesson 1 Definition of Vacuum

You have completed Lesson 1!

Vacuum University brought to you by Dekker Vacuum Technologies, Inc.

Copyright © 2015 by Vacuum University, Inc.

THIS WEBSITE AND MATERIALS CONTAINED WITHIN ARE CONFIDENTIAL AND PROPRIETARY TO VACUUM UNIVERSITY LLC. AND MAY NOT BE REPRODUCED, PUBLISHED, OR DISCLOSED TO OTHERS WITHOUT COMPANY AUTHORIZATION

No part of this work may be reproduced in whole or in part in any manner without the permission of the copyright owner.

No part of the materials available through the VACUUMUNIVERSITY.NET site may be copied, photocopied, reproduce translated, or reduced to any electronic medium or machine-readable form, in whole or in part, without prior written

All materials contained on this site are protected by United States copyright law and may not be reproduced, distributed transmitted, displayed, published, or broadcast with the prior written permission of VACUUM UNIVERSITY, LLC.



No voiceover...