## **Quality – Data Integrity**

Your Objectives:

At the end of this lesson, you should be able to use and know how to follow the ALCOA standard.

Firstly, watch this four-minute video: <a href="https://www.youtube.com/watch?v=PFO-SUmRnRM">https://www.youtube.com/watch?v=PFO-SUmRnRM</a>

What follows will shed some light on what lies behind ALCOA and on why the concept has gained recognition.

## What is ALCOA?

Legible:

Original:

	around since the 1990s and has now come to be y. The principle behind it is used by GxP-regulated
industries as a	for ensuring data
and is therefore key to <b>good docun</b>	nentation practice (GDP). ALCOA describes the
related to t	the integrity of data. In recent years, the term "data
integrity" has received increased	in GxP-regulated
environments. Data integrity is equally crit (or 'Approved Bodies') as well as auditors.	tical for manufacturers, 'Notified Bodies', in Europe,
*ALCOA refers to the following five charact	eristics:
• Attributable: An action can be ascu	rihed to a nerson or a system

The storage takes place in original form or as a certified copy (true copy).

The legibility must be permanent

• **Contemporaneous**: The data is generated when it is created.

• Accurate (correct): The data must be error free and must not be subsequently		
unless changes are properly documented: omissions must be		
crossed out with a single line, and must include signature, date and written		
from the original author).		
What does 'data integrity' mean?		
The British Medicines and Healthcare products Regulatory Agency (MHRA) defines data		
integrity as the extent to which data is, consistent,		
, trustworthy and . In addition,		
data integrity means that the attributes (listed above) are retained throughout the entire data		
lifecycle, i.e. from its generation to selling, deletion. According		
to the MHRA, the data should be collected and stored in a		
manner so that it is assignable, , timely, original (or in the form		
of a certified copy) and correct. To ensure this, adequate quality and risk management systems,		
including adherence to sound scientific and good		
documentation practices, are necessary.		
This content (ALCOA) is by no means unknown. The ALCOA principle has been used for more than 20 years by regulated industries as part of good documentation practice (GDP). Various regulations, such as those stated in the Drug and Drug Manufacturing Ordinance (AMWHV),		
also includes requirements for the and handling of (digitally)		
data. However, the term only achieved a certain "cult status"		
when the MHRA summarised the requirements in 2016 with the publication of the "GxP Data Integrity Definitions and Guidance for Industry" under the term "data integrity". As a result, a		

number of	, such as the "Data Integrity and Compliance with
cGMP Guidance for Industry" (FDA, Di	aft 2016) and the "GAMP Guide: Records & Data
Integrity" (ISPE, 2017), were published wi	thin a very short time.

## Aufgabe Lückentext:

Folgende Wörter bitte in den Lückentext einfüllen. Jedes Wort kommt einmal vor. Bitte Gross- und Kleinbuchstaben beachten.

attention, accurate, complete, edited, explanation, final, framework, guidelines, integrity, integrity, legible, principles, requirements, reliable, secure, stored