

General Course Details	
<b>Course Title</b>	Alcohol Essentials: Tolerance
<b>Course Duration</b>	1.0 hours
<b>Initial Launch Date</b>	3-4-25
<b>Course Description</b>	<p>This course explores the science behind alcohol tolerance, focusing on alcohol metabolism, its biochemical effects on the brain, and the mechanisms that lead to different types of tolerance. Students will examine the roles of key enzymes, neurotransmitter interactions, and the impact of long-term alcohol exposure on brain function. The course also covers the Mellanby effect and its implications for impairment and intoxication perception. Through discussions on pharmacodynamic, metabolic, and behavioral tolerance, students will gain a deeper understanding of how the body and brain adapt to alcohol consumption.</p> <p>The course integrates research findings on alcohol tolerance, withdrawal symptoms, and impaired motor function, particularly in relation to driving and decision-making. Students will analyze scientific studies on acute tolerance and its effects on behavior, as well as how chronic alcohol use shifts neurological homeostasis. This course is ideal for those interested in forensic science, law enforcement, pharmacology, or public health.</p>
<b>Learning Objectives</b>	<ul style="list-style-type: none"> <li>• Explain alcohol metabolism and describe its role in tolerance</li> <li>• Describe the biochemical effects of alcohol on the human brain at the molecular level</li> <li>• Distinguish between various types of alcohol tolerance and their mechanisms</li> <li>• Explain the Mellanby Effect and its implications</li> </ul>
<b>Lessons</b>	4
<b>Quizzes</b>	0

<b>Format</b>	<p>Courses on DrugImpairment.com are offered in an asynchronous e-learning format. Each course consists of individual lessons and each lesson contains video-based instruction or a written learning assignment. Lessons are equipped with timers and activity monitoring for completion integrity. Certificates are granted upon completion of all lessons in a course and achieving satisfactory performance on any associated quizzes. Course learning hours are determined by run-time, with a minimum of 50 minutes required per credit hour.</p>
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Instructor Information	
<b>Instructor Name</b>	Zebulon Graham, PharmD
<b>Instructor Biography</b>	<p>Lieutenant Zebulon (Zeb) Graham is a full-time law enforcement officer for one of the four largest sheriff's offices in the state of Idaho. Lt. Graham has held various law enforcement assignments since 2006 including reserve deputy, patrol deputy, FTO, school resource officer (SRO), field training officer (FTO), detective, and patrol sergeant. Lt. Graham currently supervises the investigation division.</p> <p>Lt. Graham became a Drug Recognition Expert (DRE) in 2011 and a DRE instructor in 2014. Lt. Graham possesses a Bachelor of Science (BS) degree in physics and an additional Bachelor of Science (BS) degree in biochemistry. Lt. Graham also holds a Doctor of Pharmacy degree (PharmD) from Idaho State University (ISU) and is a licensed pharmacist in the state of Idaho and the state of Wyoming. In addition to his law enforcement duties, Lt. Graham practices as an institutional and community pharmacist in southeast Idaho.</p>
<b>ABFT Certified</b>	Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/>
<b>POST Instructor</b>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable <input type="checkbox"/>
<b>DRE</b>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable <input type="checkbox"/>
<b>DRE Instructor</b>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable <input type="checkbox"/>