

*Journal of Dental Technology*  
April 2022 Regulatory Quiz  
Worker Safety in a Digital Laboratory  
NBC Approval #42056

1. Analog manufacturing poses risks to workers from exposure to bloodborne pathogens.
  - a. True
  - b. False
2. Chemical safety is still very important in a digital work environment due to the large number of hazardous materials that are used in the manufacturing processes.
  - a. True
  - b. False
3. OSHA requires that employers identify hazards to employee safety in all work environments and address those concerns through administrative/work practice controls, engineering control, and the use of personal protective equipment.
  - a. True
  - b. False
4. As bloodborne pathogen exposure risk is eliminated through digital manufacturing, employers do not need to perform a risk analysis before introducing any new manufacturing technology, such as CAD/CAM, milling and 3D printing.
  - a. True
  - b. False
5. While many of machines include evacuation systems to reduce exposure to harmful dusts, some do not. Therefore, additional engineering controls must be added to capture the dusts created in milling.
  - a. True
  - b. False
6. 3D printing resins are considered irritants and some even have health warnings. Some are also considered corrosives which can cause serious skin and eye injuries.
  - a. True
  - b. False
7. If using hydrogen peroxide, a highly flammable liquid, to clean printed models and devices, the used liquid is considered hazardous waste and must be disposed of properly or recovered using a solvent recovery machine.
  - a. True
  - b. False
8. Among other things, OSHA requires a written Hazard Communication Program, provision of Safety Data Sheets for hazardous materials, and documented training on all of the hazards from equipment and hazardous materials.
  - a. True
  - b. False
9. The Ergonomics Standard from OSHA states that employers must address any musculoskeletal issues that are causing or may cause employee health issues.
  - a. True
  - b. False
10. The key takeaway from this article is that employers should be as proactive and diligent in protecting employees in the digital lab as they are in the analog lab.
  - a. True
  - b. False

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