

dss+ Bearing Failure Mechanisms: Principles of Lubrication eLearning (15 min)

Knowing the **Principles of Lubrication** makes the difference between bearings reaching their full potential and early bearing failure. This interactive offering explores how bearings and lubrication work together and the maintenance practices that support getting the most out of all bearing-associated equipment.

AUDIENCE All M&R workers who service machinery with bearings

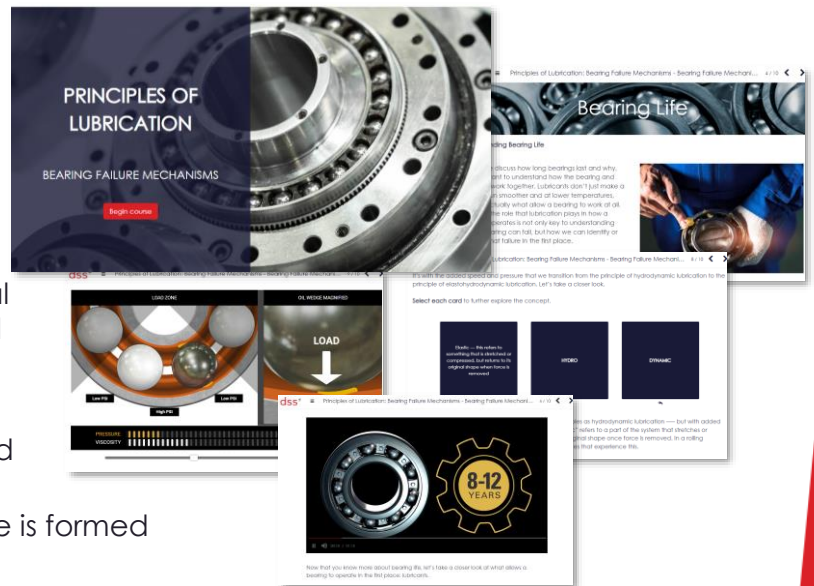
INDUSTRIES Automotive, Food and Beverage, Chemical and Petrochemical, Electronics, Oil and Gas, Metals and Mining, Transportation, Manufacturing, Power and Utilities

TOPICS COVERED Includes calculating the ideal lifespan of a bearing and actions that can lead to a bearing reaching its maximum lifespan, specifically:

- Understanding bearing life and where to find the lifespan of specific bearings
- Lubrication dynamics and how an oil wedge is formed within an active bearing
- Principles of hydrodynamic lubrication in journal bearings
- The concept of conformity
- Principles of elastohydrodynamic lubrication in rolling element bearings

KEY MODELS & TOOLS High-definition visual models, videos and interactive exercises are included to engage workers in understanding the relationship between bearings and lubrication, and best practices to maximize bearing life.

COURSE CODE RPS001HMLENG0000



KEY OUTCOMES

After this course, learners will be able to identify the lifespan of bearings in their workplace and implement practices that maximize bearing life. They will understand the relationship between bearings and lubrication, and how to differentiate between hydrodynamic and elastohydrodynamic lubrication.

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