

# Systems Engineering and Project Management

Apply safety principles, practices, philosophy, and guidelines to the work environment. [STS.HS.32.1](#)

- a** Complete applicable safety assessment with 100% accuracy. [STS.HS.32.1.A](#)

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- b** Employ eye protection in compliance with Neb. Rev. Statute 79-715. [STS.HS.32.1.B](#)

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- c** Employ appropriate Personal Protective Equipment (PPE) while in the lab setting. [STS.HS.32.1.C](#)

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- d** Employ the safe application of tools and machines. [STS.HS.32.1.D](#)

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- e** Explain the main hazards that are possible in the lab setting. [STS.HS.32.1.E](#)

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- f** Demonstrate proper handling and storing of materials. [STS.HS.32.1.F](#)

Identify career opportunities in engineering areas. [STS.HS.32.2](#)

- a** Identify responsibilities and characteristics of professionals in an engineering industry. [STS.HS.32.2.A](#)

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- b** Describe work behaviors needed to be employable in an engineering industry. [STS.HS.32.2.B](#)

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- c** Identify the training, education, certification, and licensing requirements for various careers in an engineering industry. [STS.HS.32.2.C](#)

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- d** Identify high wage, high demand, and high skill careers in engineering. [STS.HS.32.2.D](#)

Employ a formal engineering design process to create a solution to an existing problem. [STS.HS.32.3](#)

- a** Collaborate with industry experts, mentors, or advanced students. [STS.HS.32.3.A](#)

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- b** Demonstrate authentic engineering methods and documentation. [STS.HS.32.3.B](#)

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- c** Apply task-specific mathematical concepts. [STS.HS.32.3.C](#)

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- d** Apply task-specific scientific concepts. [STS.HS.32.3.D](#)

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- e** Complete a prototype or minimum viable product (MVP). [STS.HS.32.3.E](#)

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- f** Perform engineering tests to evaluate the prototype or MVP. [STS.HS.32.3.F](#)

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**g** Develop a marketing plan and production plan. STS.HS.32.3.G

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**h** Report on the importance of each step of the engineering process. STS.HS.32.3.H