Indiana State University » College of Technology » Dept of Applied Engineering and Technology Management
BS in Automotive Engineering Technology

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Standing Requirements
Outcomes Library

BS in AET Outcome Set - May 2013

1. Technical Competency

Technical proficiency by applying disciplinary reasoning and critical thinking to identify, analyze and solve problems in the design, manufacture, and maintenance of major automotive subsystems and technologies (Technical Competency).

Outcome	Mapping
1.1: Reasonably evaluate major automotive subsystems and technologies The ability to reasonably evaluate the design, manufacture, and maintenance of major automotive subsystems and technologies.	No Mapping
1.2: Competence in the application of computer technologies Competence in the application of computer technologies commonly used in industry, governmental service, and private practice associated with automotive engineering technology.	No Mapping
1.3: The ability to apply principles of mathematics, science, and engineering technology The ability to apply principles of mathematics, science, engineering technology, including probability and statistics to the solution of problems related to the automotive industry.	**Foundational Studies:** IIIa. Quantitative Literacy
1.4: Ability to conduct and evaluate experiments The ability to conduct and evaluate experiments competently in a laboratory setting.	No Mapping

2. Managerial Competency

Managerial competency in the chosen field (Managerial Competency).

Outcome	Mapping
2.1: The ability to apply modern and effective management skills The ability to apply modern and effective management skills in identification and investigation of problems, analysis of data, synthesis and implementation of solutions, and operations of automotive facilities.	No Mapping

3. Communication Competency

Effective communication skills in both oral and written form to articulate technical knowledge, ideas, and proposals (Communication Competency)

Outcome	Mapping
3.1: The ability to communicate with clarity and conciseness The ability to communicate with clarity and conciseness both verbally and in writing with peers, clients and targeted audience.	**Foundational Studies:** 10. Express themselves effectively, professionally, and persuasively both orally and in writing.

4. Responsibility Awareness

The awareness of professional, ethical and social responsibility and impact of engineering technology practices in Indiana and a diversified world (Responsibility Awareness).

Outcome	Mapping

Outcome	Mapping
4.1: The understanding of professional and ethical responsibility, The understanding of professional and ethical responsibility, and the impact of technology in a global and social context.	No Mapping

5. Teamwork Competency

The ability to function effectively, think independently and work collaboratively in a team environment (Teamwork Competency).

Outcome	Mapping
5.1: Team structure and function effectively in a multi-disciplinary team The ability to analyze team structure and function effectively in a multi-disciplinary team and respect members of various background and personality.	No Mapping

6. Lifelong Learning Competency

Individual desire and commitment to remain technically current by engaging in continuous self-improvement and lifelong learning (Lifelong Learning Competency).

Outcome	Mapping
6.1: Desire to engage in life-long learning Desire to engage in life-long learning to pursue increasing knowledge of current and emerging technical and non-technical issues.	No Mapping

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