**Outcome J.** Graduates will have knowledge of contemporary issues.

| Course | Performance indicators |
|---|---|
| MAE 320, 321, 331, 423 | Use of contemporary facts, information or data on engineering assignments. |
| MAE 320, 321, 331, 423 | Effective use of contemporary sources of information. |
| MAE 320, 321, 331, 423 | Grade distribution. |

| | |
|---|---|
| Tools used: | Course assessment by faculty, Alumni survey, Employer survey. |
| Data Collection: | The data are collected every semester based on the course offerings. |
| Frequency of data collection: | The data are collected every time courses are taught. |
| Data Analysis: | The data obtained are analyzed every year. |
| Closing the loop: | This outcome is subject to review every year based on performance criteria and metrics and specific action items are developed, if necessary, to revise the content of the courses. The analyzed data are presented separately to the following groups in meetings.<br>a) Feedback to students on all assignments<br>b) Feedback to faculty, particular from majors. |

| Outcome and Performance Indictor | | Performance Indicator Rubric | | | | |
|---|---|---|---|---|---|---|
| **Outcome J**<br>"Graduates will have knowledge of contemporary issues." | | **Poor** | **Fair** | **Good** | **Very Good** | **Excellent** |
| PI1 | Use of contemporary facts, information or data on engineering assignments. | No mention of contemp. issues | Contemp. issues barely Mentioned | Contemp. issues Addressed in context | Contemp. issues Addressed in context and illustrated | Contemp. issues Addressed, illustrated & discussed |
| PI2 | Effective use of contemporary sources of information. | No sources of info cited. | Cont. sources of info. mentioned | Cont. sources of info. Used | Cont. sources of info. Used effectively | Cont. sources of info. Used effectively & explained |
| PI3 | Grade distribution | 1 (F) | 2 (D) | 3 (C) | 4 (B) | 5 (A) |

**Performance Indicator 1. (PI1).** "Use of contemporary facts, information or data on engineering assignments." Engineering is a profession which is often invoked in the context of contemporary issues (events involving facts, issues and/or data). The following rubrics are used to assess this indicator:

- **Poor.** This rubric is used when an assignment offers no evidence of contemporary issues being addressed or used in the formulation and/or solution of engineering problems.
- **Fair**. This rubric is used when an assignment offers some evidence of contemporary issues used in the formulation and/or solution of engineering problems.
- **Good**. This rubric is used when an assignment offers evidence of specific contemporary issues being used in the formulation and/or solution of engineering problems, with some general references to sources of facts, data or information.
- **Very Good**. This rubric is used when an assignment offers strong evidence of specific contemporary issues being used in the formulation and/or solution of engineering problems, with specific relevant references to the sources of facts, data and/or information.
- **Excellent**. This rubric is used when in addition to the previous rubric; the contemporary issues and the sources are used effectively to produce results which are then illustrated and documented.

**Performance Indicator 2. (PI2).** "Effective use of contemporary sources of information." Engineering is a profession which is often challenged with contemporary issues that call for the creative use of information resources. The following rubrics are used to assess this indicator:

- **Poor.** This rubric is used when an exercise that offer the opportunity to use contemporary sources of information, produces no evidence of the use of any contemporary source of information.
- **Fair**. This rubric is used when an exercise that offer the opportunity to use contemporary sources of information, produces some evidence of the use of some contemporary sources of information.

- **Good**. This rubric is used when an exercise, produces evidence of the use of contemporary sources of information with some detail.
- **Very Good**. This rubric is used when an exercise, produces clear evidence of the use of contemporary sources of information and resources which are relevant and effectively used.
- **Excellent**. This rubric is used when in addition to the previous rubric, there is a narrative explaining the significance of the sources and resources used.

**Performance Indicator 3. (PI3).** Grade distribution from class on applicable assignments or exercises. A, B, C, D ,F

# Assessment Tool:

# Course Assessment Rubric by Faculty

# Mechanical Engineering Program Course-Outcome Matrix

(October 2014)

| **ABET Outcome** | | ***a*** | ***b*** | ***c*** | ***d*** | ***e*** | ***f*** | ***g*** | ***h*** | ***i*** | ***j*** | ***k*** | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Required Course**<br><br>**K** = Key Course<br>r = related Course | Credit Hours | Apply Math, Science, and Engr | Design Experiments and Analyze and | Design System, Component, or Process | Multi-disciplinary Teams | Identify, Formulate and Solve Engr Problems | Professional and Ethical Responsibility | Communicate Effectively | Broad Education - Global and Societal | Life-long Learning | Contemporary Issues | Techniques, Skills, and Modern Engr Tools | Number of Outcomes per course |
| ENGR 101 *Engr. Problem Solving 1* | 3 | | | | | | F | G | | | | | 2 |
| MAE 211 *Mechatronics* | 3 | | | C | D | | | | | | | | 2 |
| MAE 241 *Statics* | 3 | A | | | | | | | | | | | 1 |
| MAE 242 *Dynamics* | 3 | A | | | | | | | | | | | 1 |
| MAE 243 *Mech. of Materials* | 3 | | | | | E | | | | | | | 1 |
| MAE 244 *Dynam. & Strength Lab* | 1 | | B | | ~~D~~ | | | | | | | K | **2** |
| MAE 316 *Analy. of Engr. Sys.* | 3 | A | | | | | | | | | | K | 2 |
| MAE 320 *Thermodynamics* | 3 | | | | | E | | | H | | J | | 3 |
| MAE 321 *Applied Thermodynamics* | 3 | | | | | E | | | | | J | | 2 |
| MAE 322 *Thermal and Fluids Lab.* | 3 | | B | | | | | G | | | | | 2 |
| MAE 331 *Fluid Mechanics* | 3 | A | | | | | | | | | J | | 2 |
| MAE 342 *Dynamics of Machines* | 3 | | | | | E | F | | | | | | 2 |
| MAE 343 *Intermed. Mech. Matls.* | 3 | A | | | | | | | | I | | | 2 |
| MAE 411 *Advanced Mechatronics* | 3 | | B | | | | | | | | | K | 2 |
| MAE 423 *Heat Transfer* | 3 | | | C | | | | | H | | J | | 3 |
| MAE 454 *Machine Design and Mfg.* | 3 | | | C | | E | | | | I | | | 3 |
| MAE 456 *CAD & Finite Elem. Ana.* | 3 | | | C | | E | | | | | | K | 3 |
| MAE 460 *Automatic Controls* | 3 | | | | | E | | | | | | K | 2 |
| MAE 471 *Prin. of Engr. Design* | 3 | | | C | D | | **F** | G | | | | | **4** |
| No. of courses/outcome | 55 | 5 | 3 | 5 | **2** | 7 | **3** | 3 | 2 | 2 | 4 | 5 | |
| MATH 155 *Calculus 1* | 4 | r | | | | | | | | | | | |
| CHEM 115 *Fund. of Chemistry* | 4 | r | r | | | | r | | | | | | |
| ENGR 199 *Orientation to Engr.* | 1 | r | | r | | r | r | r | | r | r | | |
| ENGL 101 *Composition and Rhetoric* | 3 | | | | | | | r | | | | | |
| MATH 156 *Calculus 2* | 4 | r | | | | | | | | r | | | |
| ENGR 102 *Engr. Problem Solving 2* | 3 | r | | r | | r | | | | | | | |
| PHYS 111 *General Physics* | 4 | r | r | | | r | | r | | | | | |
| PHYS 112 *General Physics* | 4 | r | r | | | r | | r | | r | | | |
| ENGL 102 *Composition & Rhetoric* | 3 | | | | | | | r | | r | | | |
| MATH 251 *Multivariable Calculus* | 4 | r | | | | | | | | r | | | |
| MATH 261 *Elem. Diff. Equations* | 4 | r | | | | | | | | r | | | |
| IENG 302 *Manufacturing Processes* | 2 | r | | r | r | | | | | | | | |
| IENG 303 *Manufact. Processes Lab* | 1 | r | r | r | r | | | | | | | | |
| EE 221 *Intro. to Electrical Engr.* | 3 | r | | r | | r | | | | | | | |
| EE 222 *Intro. to Electrical Engr. Lab* | 1 | r | r | r | | | | | | | | | |
| GEC (21 hours) | 21 | | | | | | | r | r | | r | | |
| Technical Electives (6 hours) | 6 | | | | | | | | r | r | r | r | |

| Outcome | ABET Assessment Team members<br>To conduct Assessment of Year 2014 | |
|---|---|---|
| a | Ismail Celik,<br>Yu Gu,<br>Mario Perhinschi and<br>Pat Browning | **Outcome a**<br>"Graduates will have an ability to apply knowledge of mathematics, science and engineering." |
| b | Marvin Cheng,<br>Alfred Lynam and<br>Marcello Napolitano | **Outcome b**<br>"Graduates will have an ability to design and conduct experiments, as well as to analyze data." |
| c | Ken Means,<br>Terry Musho and<br>Greg Thompson | **Outcome c**<br>"Graduates will have an ability to design a system, component or process to meet desired needs." |
| d | Kostas Sierros,<br>Jim Smith and<br>Scott Wayne | **Outcome d**<br>"Graduates will have an ability to function on multidisciplinary teams." |
| e | Ever Barbero,<br>John Kuhlman,<br>Andrew Nix and<br>Jason Gross | **Outcome e**<br>"Graduates will have an ability to identify, formulate and solve engineering problems." |
| f | Wade Huebsch and<br>David Mebane | **Outcome f**<br>"Graduates will have an understanding of professional and ethical responsibility." |
| g | Salva Akkerman,<br>Cosmin Dumitrescu and<br>Nithi Sivaneri | **Outcome g**<br>"Graduates will have an ability to communicate effectively." |
| h | Victor Mucino and<br>John Christian | **Outcome h**<br>"Graduates will have the broad education necessary to understand the impact of engineering solutions in a global and societal context". |
| i | Xingbo Liu,<br>Ed Sabolsky and<br>Samir Shoukry | **Outcome i**<br>"Graduates will have a recognition of the need for, and an ability to engage in, life-long learning". |
| j | Bruce Kang,<br>Sam Mukdadi and<br>Nick Wu | **Outcome j**<br>"Graduates will have knowledge of contemporary issues." |
| k | Larry Banta,<br>Hailin Li and<br>Xueyan Song | **Outcome k**<br>"Graduates will have an ability to use the techniques, skills and modern engineering tools necessary for engineering practice." |

| MECHANICAL ENGINEERING | J | Outcome J-2014 |
|---|---|---|

| **Outcome J**<br>"Graduates will have knowledge of contemporary issues." | **Assessment Team:**<br>Bruce Kang, Sam Mukdadi and Nick Wu |
|---|---|

| **Performance Indicators:**<br>PI1. Use of contemporary facts, information or data on engineering assignments.<br>PI2. Effective use of contemporary sources of information.<br>PI3. Grade average for the entire class. | Rubrics for Performance Indicators: | | | | | |
|---|---|---|---|---|---|---|
| | | Poor (1) | Fair (2) | Good (3) | Very good (4) | Excellent (5) |
| **Performance: P = ( PI1 + PI2 + GA) / 3**<br>**P= Performance**<br>**PI1 = Performance Indicator 1**<br>**PI2 = Performance Indicator 2**<br>**GA= Average grade of class in assignment***<br>**(if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt scale, multiply by 1.25)** | PI1 | Contemporary facts, info or data missing from assignment | Contemporary facts, info or data present but not clearly connected to engineering problem | Contemporary facts, info or data from one source applied to engineering problem | Contemporary facts, info or data from two or more sources applied to engineering problem | Contemporary facts, info or data applied to engineering problem and discussed |
| | PI2 | No contemporary sources cited | One contemporary source cited, but not relevant to idea | One contemporary source cited, and used effectively | Several contemporary sources cited, with moderate effectiveness | Several contemporary sources cited, and used effectively |

| **Course/Term** | **PI1** | **PI2** | **Grade Average*** | **Performance** | **Observations (Score explanation)** |
|---|---|---|---|---|---|
| MAE 320 | | | | | |
| MAE 321 | | | | | |
| MAE 431 | | | | | |
| MAE 423 | | | | | |
| **Overall Performance 2014** | | | | | |
| **Overall Performance 2013** | | | | | |

| **Follow-up or Corrective Actions:** | **Responsible Person/Team/Cmte.** |
|---|---|

| | |
|---|---|
| | To: AE CC |
| | To: Instructor (by Course) |
| | To: Instructor (by Course) |
| | To: Instructor (by Course) |

| MECHANICAL ENGINEERING | MAE 320 | Outcome J-2014 |
|---|---|---|

**Outcome J**
"Graduates will have knowledge of contemporary issues."

**Assessment Team:**
Bruce Kang, Sam Mukdadi and Nick Wu

**Performance Indicators:**
PI1. Use of contemporary facts, information or data on engineering assignments.
PI2. Effective use of contemporary sources of information.
PI3. Grade average for the entire class.

**Performance: P = ( PI1 + PI2 + GA) / 3**
**P= Performance**
**PI1 = Performance Indicator 1**
**PI2 = Performance Indicator 2**
**GA= Average grade of class in assignment***
**(if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt. scale, multiply by 1.25)**

Rubrics for Performance Indicators:

| | Poor (1) | Fair (2) | Good (3) | Very good (4) | Excellent (5) |
|---|---|---|---|---|---|
| PI1 | Contemporary facts, info or data missing from assignment | Contemporary facts, info or data present but not clearly connected to engineering problem | Contemporary facts, info or data from one source applied to engineering problem | Contemporary facts, info or data from two or more sources applied to engineering problem | Contemporary facts, info or data applied to engineering problem and discussed |
| PI2 | No contemporary sources cited | One contemporary source cited, but not relevant to idea | One contemporary source cited, and used effectively | Several contemporary sources cited, with moderate effectiveness | Several contemporary sources cited, and used effectively |

| Course MAE 320 | PI1 | PI2 | Class Grade Ave. | Average | Observations (Score explanation) |
|---|---|---|---|---|---|
| Key Asg. 1 (HW) | | | | | |
| Key Asg. 2 (HW) | | | | | |
| Key Asg. 3 (HW) | | | | | |
| Test 1 (Problem) | | | | | |
| Test 2 (Problem) | | | | | |
| Other (Project) | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Total Average | | | | | |
| **Overall Performance 2014** | | | | | |
| **Overall Performance 2013** | | | | | |
| **Follow-up or Corrective Actions:** | | | | | **Responsible Person/Team/Cmte.** |
| | | | | | To: AE CC |
| | | | | | To: Instructor (by Course) |

| MECHANICAL ENGINEERING | MAE 321 | Outcome J-2014 |
|---|---|---|

**Outcome J**
"Graduates will have knowledge of contemporary issues."

**Assessment Team:**
Bruce Kang, Sam Mukdadi and Nick Wu

**Performance Indicators:**
PI1. Use of contemporary facts, information or data on engineering assignments.
PI2. Effective use of contemporary sources of information.
PI3. Grade average for the entire class.

**Performance: P = ( PI1 + PI2 + GA) / 3**
**P= Performance**
**PI1 = Performance Indicator 1**
**PI2 = Performance Indicator 2**
**GA= Average grade of class in assignment***
**(if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt. scale, multiply by 1.25)**

Rubrics for Performance Indicators:

| | Poor (1) | Fair (2) | Good (3) | Very good (4) | Excellent (5) |
|---|---|---|---|---|---|
| PI1 | Contemporary facts, info or data missing from assignment | Contemporary facts, info or data present but not clearly connected to engineering problem | Contemporary facts, info or data from one source applied to engineering problem | Contemporary facts, info or data from two or more sources applied to engineering problem | Contemporary facts, info or data applied to engineering problem and discussed |
| PI2 | No contemporary sources cited | One contemporary source cited, but not relevant to idea | One contemporary source cited, and used effectively | Several contemporary sources cited, with moderate effectiveness | Several contemporary sources cited, and used effectively |

| Course MAE 321 | PI1 | PI2 | Class Grade Ave. | Average | Observations (Score explanation) |
|---|---|---|---|---|---|
| Key Asg. 1 (HW) | | | | | |
| Key Asg. 2 (HW) | | | | | |
| Key Asg. 3 (HW) | | | | | |
| Test 1 (Problem) | | | | | |
| Test 2 (Problem) | | | | | |
| Other (Project) | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Total Average | | | | | |
| **Overall Performance 2014** | | | | | |
| **Overall Performance 2013** | | | | | |
| **Follow-up or Corrective Actions:** | | | | | **Responsible Person/Team/Cmte.** |
| | | | | | To: AE CC |
| | | | | | To: Instructor (by Course) |

| MECHANICAL ENGINEERING | MAE 431 | Outcome J-2014 |
|---|---|---|

**Outcome J**
"Graduates will have knowledge of contemporary issues."

**Assessment Team:**
Bruce Kang, Sam Mukdadi and Nick Wu

**Performance Indicators:**
PI1. Use of contemporary facts, information or data on engineering assignments.
PI2. Effective use of contemporary sources of information.
PI3. Grade average for the entire class.

**Performance: P = ( PI1 + PI2 + GA) / 3**
**P= Performance**
**PI1 = Performance Indicator 1**
**PI2 = Performance Indicator 2**
**GA= Average grade of class in assignment***
**(if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt. scale, multiply by 1.25)**

Rubrics for Performance Indicators:

| | Poor (1) | Fair (2) | Good (3) | Very good (4) | Excellent (5) |
|---|---|---|---|---|---|
| PI1 | Contemporary facts, info or data missing from assignment | Contemporary facts, info or data present but not clearly connected to engineering problem | Contemporary facts, info or data from one source applied to engineering problem | Contemporary facts, info or data from two or more sources applied to engineering problem | Contemporary facts, info or data applied to engineering problem and discussed |
| PI2 | No contemporary sources cited | One contemporary source cited, but not relevant to idea | One contemporary source cited, and used effectively | Several contemporary sources cited, with moderate effectiveness | Several contemporary sources cited, and used effectively |

| Course MAE 431 | PI1 | PI2 | Class Grade Ave. | Average | Observations (Score explanation) |
|---|---|---|---|---|---|
| Key Asg. 1 (HW) | | | | | |
| Key Asg. 2 (HW) | | | | | |
| Key Asg. 3 (HW) | | | | | |
| Test 1 (Problem) | | | | | |
| Test 2 (Problem) | | | | | |
| Other (Project) | | | | | |
| Total Average | | | | | |
| **Overall Performance 2014** | | | | | |

| Overall Performance 2013 | | |
|---|---|---|
| **Follow-up or Corrective Actions:** | | **Responsible Person/Team/Cmte.** |
| | | To: AE CC |
| | | To: Instructor (by Course) |

| MECHANICAL ENGINEERING | MAE 423 | Outcome J-2014 |
|---|---|---|

**Outcome J**
"Graduates will have knowledge of contemporary issues."

**Assessment Team:**
Bruce Kang, Sam Mukdadi and Nick Wu

**Performance Indicators:**
PI1. Use of contemporary facts, information or data on engineering assignments.
PI2. Effective use of contemporary sources of information.
PI3. Grade average for the entire class.

**Performance: P = ( PI1 + PI2 + GA) / 3**
**P= Performance**
**PI1 = Performance Indicator 1**
**PI2 = Performance Indicator 2**
**GA= Average grade of class in assignment***
**(if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt. scale, multiply by 1.25)**

Rubrics for Performance Indicators:

| | Poor (1) | Fair (2) | Good (3) | Very good (4) | Excellent (5) |
|---|---|---|---|---|---|
| PI1 | Contemporary facts, info or data missing from assignment | Contemporary facts, info or data present but not clearly connected to engineering problem | Contemporary facts, info or data from one source applied to engineering problem | Contemporary facts, info or data from two or more sources applied to engineering problem | Contemporary facts, info or data applied to engineering problem and discussed |
| PI2 | No contemporary sources cited | One contemporary source cited, but not relevant to idea | One contemporary source cited, and used effectively | Several contemporary sources cited, with moderate effectiveness | Several contemporary sources cited, and used effectively |

| Course MAE 423 | PI1 | PI2 | Class Grade Ave. | Average | Observations (Score explanation) |
|---|---|---|---|---|---|
| Key Asg. 1 (HW) | | | | | |
| Key Asg. 2 (HW) | | | | | |
| Key Asg. 3 (HW) | | | | | |
| Test 1 (Problem) | | | | | |
| Test 2 (Problem) | | | | | |
| Other (Project) | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Total Average | | | | | |
| **Overall Performance 2014** | | | | | |
| **Overall Performance 2013** | | | | | |
| **Follow-up or Corrective Actions:** | | | | | **Responsible Person/Team/Cmte.** |
| | | | | | To: AE CC |
| | | | | | To: Instructor (by Course) |

# Assessment Tool:

# Alumni Survey

# MAE Alumni Survey of Educational Success

Dear Alum, in an effort to improve the quality of our Educational Programs in Mechanical and Aerospace Engineering, we would like to request few minutes of your time to help us assess the level of attainment of our Educational Objectives and Learning Outcomes that our graduates exhibit in the development of their professional activity. This survey will serve as a tool for the assessment of our Program and is not intended to be used to evaluate you individually.

**Please tell us your year of graduation and the degree that you earned.**

This is a required question

**In my work, I am able to apply knowledge of math, science and engineering effectively.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**In my work, I am able to design and conduct experiments, and analyze data.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**In my work, I am able to design a system, component or process to meet desired needs and constraints.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**In my work, I am able to function productively on multidisciplinary teams.**

- Strongly Agree
- Agree
- Neutral

- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**In my work, I am able to identify, formulate and solve engineering problems.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**In my work, I have a good understanding of professional and ethical responsibility.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**In my work, I am able to communicate effectively, both verbally and in writing.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**In my work, I understand the impact of engineering solutions in a global and societal context.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**In my work, I recognize the need for, and engage in, life-long learning.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**In my work, I am aware of and appreciate contemporary engineering issues.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**In my work, I am proficient in the use of techniques, skills and modern tools necessary for engineering practice.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**In my work, I am prepared to meet the varying demands of the workforce in the technological arena.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**Please add comments below to clarify or add to any of your answers above, or to provide general comments about the level of satisfaction you have with the way your education in the MAE department has prepared you for your career.**

This is a required question

**In general, How would you rate yourself in the following categories**

| | Poor | Fair | Good | Very Good | Excellent |
|---|---|---|---|---|---|
| Your proficiency in your field | | | | | |
| Your drive to learn on your own. | | | | | |
| Your preparedness to meet the demands of the job-market | | | | | |

Please enter one response per row

Submit

*Never submit passwords through Google Forms.*

# Assessment Tool:

# Employer Survey

# Employer Survey of MAE Graduates

Dear Employer, in an effort to improve the quality of our Educational Programs in Mechanical and Aerospace Engineering, we would like to request few minutes of your time to help us assess the level of attainment of our Educational Objectives and Learning Outcomes that our graduates exhibit in the development of their professional activity in your company. This survey will serve as a tool for the assessment of our Program and is not intended to be used to evaluate the graduate's work for you or in your company.

**Please tell us how many WVU MAE graduates you employ, and for how long.**

This is a required question

**WVU MAE graduates in my employ are able to apply knowledge of math, science and engineering effectively.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**WVU MAE graduates in my employ are able to design and conduct experiments, and analyze data.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**WVU MAE graduates in my employ are able to design a system, component or process to meet desired needs and constraints.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**WVU MAE graduates in my employ are able to function productively on multidisciplinary teams.**

- Strongly Agree
- Agree

- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**WVU MAE graduates in my employ are able to identify, formulate and solve engineering problems.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**WVU MAE graduates in my employ have a good understanding of professional and ethical responsibility.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**WVU MAE graduates in my employ are able to communicate effectively, both verbally and in writing.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**WVU MAE graduates in my employ understand the impact of engineering solutions in a global and societal context.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**WVU MAE graduates in my employ recognize the need for, and engage in, life-long learning.**

- Strongly Agree
- Agree
- Neutral

- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**WVU MAE graduates in my employ are aware of and appreciate contemporary engineering issues.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**WVU MAE graduates in my employ are proficient in the use of techniques, skills and modern tools necessary for engineering practice.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**WVU MAE graduates in my employ are prepared to meet the varying demands of the workforce in the technological arena.**

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

**Please add comments below to clarify or add to any of your answers above, or to provide general comments about the level of satisfaction you have with graduates of the MAE department at WVU.**

This is a required question

**In general, How would you rate WVU MAE graduates in the following categories**

| | Poor | Fair | Good | Very Good | Excellent |
|---|---|---|---|---|---|
| Proficiency in his/her field | | | | | |
| Drive to learn on his/her own | | | | | |
| Preparedness to meet the demands of the job market | | | | | |

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