Glendale Community College Instructional Division Program Learning Outcomes Assessment Timeline

Please complete a separate timeline form for *each* program within your division

Division name: Technology and Aviation
Program name (degree, certificate, sequence of courses or series of learning activities leading to intellectual mastery): Industrial Technology

Program Relationship to Glendale Community College's Core Competencies/Institutional Student Learning Outcomes (ISLOs)

How does this program relate to GCC's College's Core Competencies/Institutional Student Learning Outcomes (ISLOs)?: Core Competencies/ISLOs are commonly defined as the knowledge, skills, abilities, and attitudes that students are expected to develop as a result of their overall experiences with any aspect of the college, including courses, programs, and student services. Each program offered at GCC should link to at least some of these Core Competencies/ISLOs. A list of the Core Competencies/ISLOs can be found here: http://www.glendale.edu/Modules/ShowDocument.aspx?documentid=4362 Include a brief statement outlining how this program aligns with GCC's Core Competencies/ISLOs	**An ideal relationship:** • Is clear and brief • Is connected to GCC's Core Competencies/ISLOs • If applicable, aligns with professional organization(s) learning outcomes

This program relates closely to many of the college's core competencies. It is a career oriented program that informs and prepares students for work in the electric utility industry relating to electric utility lineman, smart grid and wind turbine disciplines. The Industrial Technology program enhances the student's abilities in Communication (1a,1b,1c, 1e) through reading and writing of technical project assignments. Mathematical Competencies (2a, 2b) through the measuring and evaluation of electric circuits. Information Competencies (3a, 3b, 3c, 3d) through researching and evaluating information related to an electrical project. Critical Thinking (5b, 5c, 5e) through simulated response to electric circuit anomalies. Personal Management (6a, 6b) by the creation of work designed to aid achieving employment and/or college transfer. Application of Knowledge (7a, 7b, 7c, 7d) by learning the various computer software and the workplace skills required to complete a project.

Program Level Outcomes (PLOs) Assessment Timeline

What are the Program Learning Outcomes of this program?:	**Ideal examples of Program Learning Outcomes:**
Program Learning Outcomes (PLOs) are commonly defined as the knowledge, skills, and abilities that students have attained as a result of their involvement in a particular set of educational experiences such as within a specific program, degree, certificate or series of learning activities leading to intellectual mastery List your PLOs below and explain the timeline by which the PLOs will be assessed **What is the PLO Assessment Planning Timeline for this Program?:** To develop an ongoing and systematic planning timeline, it is recommended that you assess PLOs within a 3 year cycle (e.g. assess 1/3 of PLOs in year 1, 1/3 in year 2, and 1/3 in year 3)	• Are observable and measurable • Are program specific • Connect to GCC's Core Competencies/ISLOs • Use action verbs • Generally a program will have between three and six PLOs • If applicable, aligns with professional organization(s) learning outcomes **Ideal examples of Program Assessment Timelines:** • Are practical, sustainable, and geared to Core Competencies/ISLOs, and college mission • Ensure that each PLO is assessed regularly within a 3 year cycle • Include teams for assessment data collection and analysis and assessment report writing that include faculty members who are instructors of the courses/programs assessed

List PLOs below. Generally, a program will have between three and six PLOs. Continue to add PLOs until you have developed an assessment timeline for each PLO associated with this program.	**In what semester and year will you assess this PLO?** **What data will you use to assess it (i.e. SLO data from courses within the program, exam or essay data, portfolios of student work, licensing/exit exams, etc) ?**	**Who will collect and analyze the PLO assessment data and write a report of the findings? (Include report writer's name and, if possible, other participants)**
PLO 1 Students will demonstrate an understanding of electric utility transmission, distribution and maintenance.	This PLO will be assessed beginning in the Spring 2012 semester. SLO data will be used for assessment purposes.	Scott Rubke
PLO 2 Students will demonstrate knowledge of Smart	This PLO will be assessed beginning in the	Scott Rubke

Grid technology.	Spring 2012 semester. SLO data will be used for assessment purposes.	
PLO 3 Students will demonstrate knowledge of wind turbine fundamentals	This PLO will be assessed beginning in the Spring 2012 semester. SLO data will be used for assessment purposes.	Scott Rubke

Course/Program Alignment Matrix

How are courses in the program aligned with the program's learning outcomes?:	Ideal alignment:
This section should include a matrix of the PLOs for your program and a list of each course which is a part of the program • For each course indicate if PLO is addressed within it the level at which it is addressed by either leaving it blank (if not addressed in program) or noting **I, D, or M** • **Introduce = I** PLO is introduced at a basic level • **D = Develop** Students are given opportunities to practice, learn more about, and receive feedback to develop more sophistication • **M = Mastery** Students demonstrate mastery at a level appropriate for graduation	• Course/Program matrix indicates that PLOs are embedded in program's coursework • PLOs are introduced, developed, and mastered within the range of courses • Each course addresses one or more of the PLOs; however, rarely does a course address all PLOs

Course name and number	PLO 1 Students will demonstrate an understanding of electric utility transmission, distribution and maintenance.	PLO 2 Students will demonstrate knowledge of Smart Grid technology.	PLO 3 Students will demonstrate knowledge of wind turbine fundamentals
ITECH 155 Verdugo Power Academy	M	I	I
ITECH 156 Automated Meter Infrastructure	I	D	I
ITECH 160 Wind Turbine Fundamentals	I	I	D

As you fill out this alignment matrix, gaps may occur or become visible. Use the gaps to help your determine which course or program SLOs may need to be revised so that all courses and programs are aligned. Question 2.2 in your program's Program Review report provides a means to explain if you noted any gaps in alignment and, if yes, how your division might revise course or program SLOs to ensure that all course and program learning outcomes are aligned.