

Embry-Riddle Aeronautical University

# Program Skills

Worldwide Alumni Survey: One Year after Graduation  
Class of 2016

Class of 2016  
Worldwide Campus

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MS Project Management

**Program-specific Skills: Usefulness to current job**  
**MS Project Management - Worldwide**

	M	n	Very Useful		Useful		Not Very Useful		Not at all Useful	
			#	%	#	%	#	%	#	%
Manage projects through all phases of their life cycle using appropriately tailored and accepted practices	3.5	32	20	62.5%	8	25.0%	4	12.5%	0	0.0%
Apply ethical and legal standards to all phases and activities of project management	3.6	32	22	68.8%	7	21.9%	3	9.4%	0	0.0%
Apply team building, leadership and followership skills to projects	3.7	32	26	81.3%	4	12.5%	1	3.1%	1	3.1%
Apply qualitative and quantitative analysis to balance cost, schedule, scope, quality and risks to achieve the project objectives	3.2	32	16	50.0%	8	25.0%	6	18.8%	2	6.3%
Adapt project management organizational strategies and the application of ethical and legal considerations to meet the demands of complex, multinational or cross-cultural project relationships	3.4	32	19	59.4%	9	28.1%	3	9.4%	1	3.1%
Synthesize solutions using critical thinking skills to connect all aspects of project management with strategic planning and goal setting	3.6	32	21	65.6%	9	28.1%	1	3.1%	1	3.1%

*SOURCE: 2018 Worldwide Alumni Survey: One Year After Graduation. Class of 2016. (4-Very Useful, 3-Useful, 2-Not Very Useful, 1-Not At All Useful). Institutional Research (2018).*

**Program-specific Skills: ERAU's preparation  
MS Project Management - Worldwide**

	M	n	Very High Preparation		High Preparation		Moderate Preparation		Little Preparation	
			#	%	#	%	#	%	#	%
Manage projects through all phases of their life cycle using appropriately tailored and accepted practices	3.3	31	16	51.6%	10	32.3%	4	12.9%	1	3.2%
Apply ethical and legal standards to all phases and activities of project management	3.3	31	13	41.9%	14	45.2%	3	9.7%	1	3.2%
Apply team building, leadership and followership skills to projects	3.3	30	14	46.7%	10	33.3%	6	20.0%	0	0.0%
Apply qualitative and quantitative analysis to balance cost, schedule, scope, quality and risks to achieve the project objectives	3.1	30	12	40.0%	9	30.0%	8	26.7%	1	3.3%
Adapt project management organizational strategies and the application of ethical and legal considerations to meet the demands of complex, multinational or cross-cultural project relationships	3.2	30	13	43.3%	11	36.7%	6	20.0%	0	0.0%
Synthesize solutions using critical thinking skills to connect all aspects of project management with strategic planning and goal setting	3.2	30	14	46.7%	9	30.0%	7	23.3%	0	0.0%

*SOURCE: 2018 Worldwide Alumni Survey: One Year After Graduation. Class of 2016. (4-Very Useful, 3-Useful, 2-Not Very Useful, 1-Not At All Useful). Institutional Research (2018).*

MS Systems Engineering

**Program-specific Skills: Usefulness to current job  
M Systems Engineering - Worldwide**

	M	n	Very Useful		Useful		Not Very Useful		Not at all Useful	
			#	%	#	%	#	%	#	%
Understanding the needs of the super-system and their impact on system development	3.8	6	5	83.3%	1	16.7%	0	0.0%	0	0.0%
Understanding how the business (enterprise) and technology environment influences system development and its effect on its operating and social environment	3.7	6	4	66.7%	2	33.3%	0	0.0%	0	0.0%
Ability to analyze stakeholder needs to establish and manage system requirements throughout its life cycle	3.8	6	5	83.3%	1	16.7%	0	0.0%	0	0.0%
Ability to evaluate the impact of system requirements in terms of the draw of developmental and operational resources, and the interaction of the system with its environment	3.8	6	5	83.3%	1	16.7%	0	0.0%	0	0.0%
Ability to evaluate alternatives in developing system concepts	3.8	6	5	83.3%	1	16.7%	0	0.0%	0	0.0%
Understanding the need for designing for a systems life cycle	4.0	5	5	100.0%	0	0.0%	0	0.0%	0	0.0%
Ability to develop the processes for validating and verifying a systems design and transition to operation	3.6	5	3	60.0%	2	40.0%	0	0.0%	0	0.0%
Ability to incorporate the timely integration of both enterprise functions and system specialties into a system	3.8	5	4	80.0%	1	20.0%	0	0.0%	0	0.0%
Ability to employ a life cycle process for a given system	3.6	5	3	60.0%	2	40.0%	0	0.0%	0	0.0%
Ability to select appropriate systems engineering planning, monitoring and controlling, and the logistics and operations methods to effect robust system development and implementation	3.8	5	4	80.0%	1	20.0%	0	0.0%	0	0.0%

SOURCE: 2018 Worldwide Alumni Survey: One Year After Graduation. Class of 2016. (4-Very Useful, 3-Useful, 2-Not Very Useful, 1-Not At All Useful). Institutional Research (2018).



**Program-specific Skills: ERAU's preparation  
M Systems Engineering - Worldwide**

	M	n	Very High Preparation		High Preparation		Moderate Preparation		Little Preparation	
			#	%	#	%	#	%	#	%
Understanding the needs of the super-system and their impact on system development	3.2	5	1	20.0%	4	80.0%	0	0.0%	0	0.0%
Understanding how the business (enterprise) and technology environment influences system development and its effect on its operating and social environment	2.8	5	0	0.0%	4	80.0%	1	20.0%	0	0.0%
Ability to analyze stakeholder needs to establish and manage system requirements throughout its life cycle	3.4	5	2	40.0%	3	60.0%	0	0.0%	0	0.0%
Ability to evaluate the impact of system requirements in terms of the draw of developmental and operational resources, and the interaction of the system with its environment	3.2	5	1	20.0%	4	80.0%	0	0.0%	0	0.0%
Ability to evaluate alternatives in developing system concepts	3.2	5	1	20.0%	4	80.0%	0	0.0%	0	0.0%
Understanding the need for designing for a systems life cycle	3.0	4	1	25.0%	2	50.0%	1	25.0%	0	0.0%
Ability to develop the processes for validating and verifying a systems design and transition to operation	3.3	4	1	25.0%	3	75.0%	0	0.0%	0	0.0%
Ability to incorporate the timely integration of both enterprise functions and system specialties into a system	3.3	4	1	25.0%	3	75.0%	0	0.0%	0	0.0%
Ability to employ a life cycle process for a given system	3.0	4	1	25.0%	2	50.0%	1	25.0%	0	0.0%
Ability to select appropriate systems engineering planning, monitoring and controlling, and the logistics and operations methods to effect robust system development and implementation	3.3	4	1	25.0%	3	75.0%	0	0.0%	0	0.0%

SOURCE: 2018 Worldwide Alumni Survey: One Year After Graduation. Class of 2016. (4-Very Useful, 3-Useful, 2-Not Very Useful, 1-Not At All Useful). Institutional Research (2018).

Ph.D. in Aviation

**What was your area of specialization?  
PhD Aviation - Worldwide**

	#	%
Aviation Safety and Human Factors	0	0.0%
Operations	2	66.7%
Intradisciplinary	1	33.3%
Total	3	100.0%

SOURCE: 2018 Worldwide Alumni Survey: One Year after Graduation. Class of 2016. Institutional Research (2018).

**Program-specific Skills: Usefulness to current job  
PhD Aviation - Worldwide**

	M	n	Very Useful		Useful		Not Very Useful		Not at all Useful	
			#	%	#	%	#	%	#	%
Mastery of the central theories and concepts in the field of aviation, including foundations, safety management, economics, and regulatory procedures	4.0	3	3	100.0%	0	0.0%	0	0.0%	0	0.0%
Ability to pose and solve theory-based and research-based problems designed to advance applications in the field of aviation	4.0	3	3	100.0%	0	0.0%	0	0.0%	0	0.0%
Ability to extend the aviation body of knowledge by conceiving, planning, producing, and communicating original research	3.7	3	2	66.7%	1	33.3%	0	0.0%	0	0.0%
Ability to develop and demonstrate expertise in instructional processes	3.7	3	2	66.7%	1	33.3%	0	0.0%	0	0.0%
Ability to provide leadership, collaboration, and communication necessary for scholarly work in aviation	3.7	3	2	66.7%	1	33.3%	0	0.0%	0	0.0%

SOURCE: 2018 Worldwide Alumni Survey: One Year after Graduation. Class of 2016. (4-Very High Preparation, 3-High Preparation, 2-Moderate Preparation, 1-Little Preparation). Institutional Research (2018).

**Program-specific Skills: ERAU's preparation  
PhD Aviation - Worldwide**

	M	n	Very High Preparation		High Preparation		Moderate Preparation		Little Preparation	
			#	%	#	%	#	%	#	%
Mastery of the central theories and concepts in the field of aviation, including foundations, safety management, economics, and regulatory procedures	3.3	3	1	33.3%	2	66.7%	0	0.0%	0	0.0%
Ability to pose and solve theory-based and research-based problems designed to advance applications in the field of aviation	3.0	3	0	0.0%	3	100.0%	0	0.0%	0	0.0%
Ability to extend the aviation body of knowledge by conceiving, planning, producing, and communicating original research	2.7	3	0	0.0%	2	66.7%	1	33.3%	0	0.0%
Ability to develop and demonstrate expertise in instructional processes	1.3	3	0	0.0%	0	0.0%	1	33.3%	2	66.7%
Ability to provide leadership, collaboration, and communication necessary for scholarly work in aviation	3.0	3	0	0.0%	3	100.0%	0	0.0%	0	0.0%

SOURCE: 2018 Worldwide Alumni Survey: One Year after Graduation. Class of 2016. (4-Very High Preparation, 3-High Preparation, 2-Moderate Preparation, 1-Little Preparation). Institutional Research (2018).

## UNDERGRADUATE CERTIFICATES

### UG Certificate in Aviation Maintenance Technology (Part 65)

**Program-specific Skills: Usefulness to current job**  
**UG Certificate in Aviation Maintenance Technology (Part 65) - Worldwide**

	M	n	Very Useful		Useful		Not Very Useful		Not at all Useful	
			#	%	#	%	#	%	#	%
Understand and apply the fundamentals of Airframe Maintenance, including structural design, construction, inspection, repair, and maintenance	3.8	6	5	83.3%	1	16.7%	0	0.0%	0	0.0%
Basic knowledge and understanding of common airframe systems and apply system knowledge in basic troubleshooting techniques	3.8	6	5	83.3%	1	16.7%	0	0.0%	0	0.0%
Understand and apply the fundamentals of General Aviation Maintenance, including mathematics, physics, electricity, weight and balance, maintenance record keeping, commonly accepted maintenance practices, and the privileges and limitations of the Airframe	3.5	6	4	66.7%	1	16.7%	1	16.7%	0	0.0%
Understand and apply the fundamentals of Powerplant Maintenance, including reciprocating, turbine, and propeller design and construction, performance, operation, inspection, repair and maintenance to solve problems	3.7	6	5	83.3%	0	0.0%	1	16.7%	0	0.0%
Basic knowledge and understanding of common powerplant systems and apply system knowledge in basic troubleshooting techniques	3.8	6	5	83.3%	1	16.7%	0	0.0%	0	0.0%
Adequate preparation to take the FAA A&P written, oral, and practical examination	3.3	6	4	66.7%	0	0.0%	2	33.3%	0	0.0%

*SOURCE: 2018 Worldwide Alumni Survey: One Year After Graduation. Class of 2016. (4-Very Useful, 3-Useful, 2-Not Very Useful, 1-Not At All Useful). Institutional Research (2018).*

**Program-specific Skills: ERAU's preparation  
UG Certificate in Aviation Maintenance Technology (Part 65) - Worldwide**

	M	n	Very High Preparation		High Preparation		Moderate Preparation		Little Preparation	
			#	%	#	%	#	%	#	%
Understand and apply the fundamentals of Airframe Maintenance, including structural design, construction, inspection, repair, and maintenance	3.8	6	5	83.3%	1	16.7%	0	0.0%	0	0.0%
Basic knowledge and understanding of common airframe systems and apply system knowledge in basic troubleshooting techniques	3.7	6	4	66.7%	2	33.3%	0	0.0%	0	0.0%
Understand and apply the fundamentals of General Aviation Maintenance, including mathematics, physics, electricity, weight and balance, maintenance record keeping, commonly accepted maintenance practices, and the privileges and limitations of the Airframe	3.8	6	5	83.3%	1	16.7%	0	0.0%	0	0.0%
Understand and apply the fundamentals of Powerplant Maintenance, including reciprocating, turbine, and propeller design and construction, performance, operation, inspection, repair and maintenance to solve problems	3.7	6	4	66.7%	2	33.3%	0	0.0%	0	0.0%
Basic knowledge and understanding of common powerplant systems and apply system knowledge in basic troubleshooting techniques	3.7	6	4	66.7%	2	33.3%	0	0.0%	0	0.0%
Adequate preparation to take the FAA A&P written, oral, and practical examination	3.2	5	2	40.0%	2	40.0%	1	20.0%	0	0.0%

*SOURCE: 2018 Worldwide Alumni Survey: One Year After Graduation. Class of 2016. (4-Very Useful, 3-Useful, 2-Not Very Useful, 1-Not At All Useful). Institutional Research (2018).*