



# Introductory Robotics Course Industry Survey

Michigan Tech has received a grant from the National Science Foundation (ATE, principle investigator Aleksandr Sergeev) to study the effectiveness of robotics training in several different delivery modes (short terms, online, blended, face-to-face, etc.) We need your feedback to ensure that the objectives and skills currently taught in the course align well with current industrial practices and needs. Would you please take just a few moments to share your experience and advice?

Please note that the course under the evaluation is an introductory course in industrial robotics and therefore does not include the concept of robotic vision, which is covered in a later course.

Thank you in advance for your time!

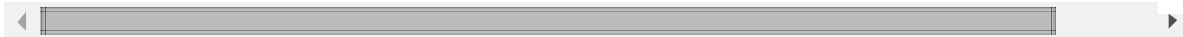
\* Required

A list of current objectives for the robotics courses is listed below. Please classify each of the following objectives. \*

	4 - Essential	3 - Important	2 - Optional	1 - Interesting	Unr
Discuss the CERT Cart Safety.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Explain different frames that use robotic arm.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Describe different inputs and outputs and how to configure them	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Understand and apply various program instructions and macro commands.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Be able to modify the program in different levels.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Explain how to set up a robot for production using	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	



robot for production using teaching pendant.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Describe how to manipulate files: copy and delete programs, backup all or specific types of files to a specific device. Learn how to load programs from the backup device and how to make an image backup and restore.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate proficiency simulating operation of the robot via ROBOGUIDE simulation software.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate proficiency manipulating a robotic arm and successfully complete the assigned tasks.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



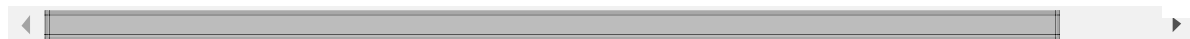
In your opinion, are there other essential or important objectives not currently on this list that should be included? \*

Your answer

A list of current required hands-on skills for the robotics course is listed below. Please classify each skill. \*

	4 - Essential	3 - Important	2 - Optional	1 - Interesting	Unr
Operate the Teach Pendant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Navigate the Controller Software	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Power up and Jog the Robot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Perform all Jog Methods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Recover from common	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

program and robot faults	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Execute production operations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Perform Frame setup	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Create, modify and execute a material-handling program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand all Programming Instructions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand all Positional Information (CARTESIAN vs. JOINT)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand all Motion Types (JOINT, LINEAR, CIRCULAR)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Create, Set up and execute MACROs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Configure, Monitor, Force, and Simulate Input and Output Signals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Perform Standard Backup and restore programs and files	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Create an Image Backup and restore the Image file from the Image Backup.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



In your opinion, are there other essential or important skills not currently on this list that should be included? \*

Your answer

From your experience, what other comments or general advice can you provide in terms of topics or skills that were part of your training, but no longer need to be emphasized? \*

Your answer

From your experience, what other comments or general advice can you provide in terms of new topics or skills that should be emphasized?

Your answer

100%: You made it.

SUBMIT

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