

TSC Robotics Program Guide

2/23/2019

Program Code	Program Title and Description	Intended Audience and Other
<p data-bbox="94 264 180 296">ER_L1</p> 	<p data-bbox="513 258 997 289">Introduction to Robotics for Libraries</p> <p data-bbox="526 317 1149 478">This whole group presentation with hands-on discovery period will help answer such questions as: "What is a robot?", "Where are robots used today?", "What are some types of robots?", and "What is the field of robotics?"</p> <p data-bbox="526 516 1133 611">This program typically lasts around 75 minutes per session. Multiple programs are conducted to accommodate larger groups.</p>	<p data-bbox="1170 317 1516 411">Suitable for children ages 6 through 14; also suitable for adults and seniors of all ages.</p> <p data-bbox="1170 449 1560 579">Groups up to 20 can be accommodated to gain hands-on robot experience during the discovery portion.</p>
<p data-bbox="94 636 180 667">ER_S1</p> 	<p data-bbox="513 625 980 657">Introduction to Robotics for Schools</p> <p data-bbox="526 684 1149 846">This whole group presentation with hands-on discovery period will help answer such questions as: "What is a robot?", "Where are robots used today?", "What are some types of robots?", and "What is the field of robotics?"</p> <p data-bbox="526 884 1089 978">This program typically lasts around 75 minutes. Multiple discovery sessions are conducted to accommodate larger groups.</p>	<p data-bbox="1170 684 1490 751">Suitable for children ages 6 through 14.</p> <p data-bbox="1170 789 1560 1010">Groups up to 20 can be accommodated to gain hands-on robot experience during the discovery portion. Sequential hands-on discovery sessions are conducted to handle larger groups over a longer program.</p>
<p data-bbox="94 1039 201 1071">ER_S1A</p> 	<p data-bbox="513 1029 1040 1098">Introduction to Robotics for After-school Programs</p> <p data-bbox="526 1125 1149 1287">This whole group presentation with hands-on discovery period will help answer such questions as: "What is a robot?", "Where are robots used today?", "What are some types of robots?", and "What is the field of robotics?"</p> <p data-bbox="513 1325 1117 1419">This program typically lasts around 75 minutes per session. Multiple discovery sessions are conducted to accommodate larger groups.</p>	<p data-bbox="1170 1125 1490 1192">Suitable for children ages 6 through 14.</p> <p data-bbox="1170 1230 1560 1451">Groups up to 20 can be accommodated to gain hands-on robot experience during the discovery portion. Sequential hands-on discovery sessions are conducted to handle larger groups over a longer program.</p>
<p data-bbox="94 1491 201 1522">ER_AS1</p> 	<p data-bbox="513 1480 1130 1512">Introduction to Robotics for Adults and Seniors</p> <p data-bbox="526 1539 1130 1801">This presentation with hands-on discovery period will help answer such questions as: "What is a robot?", "Where are robots used today?", "What are some types of robots?", and "What is the field of robotics?" Designed to help parents and grandparents become more comfortable and knowledgeable about robot technology and educational robotic devices.</p> <p data-bbox="513 1839 1117 1934">This program typically lasts around 75 minutes per session. Multiple programs are conducted to accommodate larger groups.</p>	<p data-bbox="1170 1539 1560 1606">Suitable for adults and seniors of all ages.</p> <p data-bbox="1170 1644 1560 1774">Groups up to 20 can be accommodated to gain hands-on robot experience during the discovery portion.</p> <p data-bbox="1170 1812 1560 1969">Multiple programs can be conducted back-to-back on the same day or in different weeks or months to accommodate large groups.</p>

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<p data-bbox="94 243 277 275">ER_MRC_WS</p> 	<p data-bbox="513 237 1040 268">Modular Robotics Cubelets Workshop(s)</p> <p data-bbox="513 300 1138 653">Exploring the award-winning Cubelets robot-building blocks: Part 1- review of the robot function diagram, how do the blocks work, using basic blocks to build a simple robot, adding more complex function blocks, and open tinkering time; Part 2 – review of Cubelets and basic blocks; using more complex blocks, introduction to programming Cubelets using Blockly visual programming language and the Bluetooth Cubelet, and open tinkering time. Content of workshop depends on the number of parts contracted.</p> <p data-bbox="513 684 1040 779">Each workshop part typically lasts around 75 minutes per session. Multiple sessions are conducted to accommodate larger groups.</p>	<p data-bbox="1170 300 1544 453">This program is conducted in parts, meaning a series of days, weeks, or months for program sessions each with more details about the same robots.</p> <p data-bbox="1170 485 1560 611">Suitable for children ages 6 through 14; from 8 years old and up for programming; adults and seniors.</p> <p data-bbox="1170 642 1560 800">Groups up to 20 can be accommodated to gain hands-on robot experience. Sequential sessions can be conducted to handle larger groups.</p> <p data-bbox="1170 831 1560 926">Part 2 requires the use of laptops provided by the client capable of running Blockly software.</p>
<p data-bbox="94 957 289 989">ER_KBRK_WS</p> 	<p data-bbox="513 951 1024 982">KinderLab Robotics KIBO Workshop(s)</p> <p data-bbox="513 1014 1138 1377">Exploring the award-winning KinderLab Robotics KIBO Robot: Part 1 - review of the robot function triangle, assembling a KIBO robot, some of the KIBO programming blocks and what they do, learning how to program the KIBO, creating and running simple programs to operate KIBO, and open tinkering time; Part 2 - additional KIBO programming blocks and what they do, creating and running more complex programs to operate KIBO, using more KIBO accessories, group challenges, and open tinkering time.</p> <p data-bbox="513 1409 1040 1503">Each workshop part typically lasts around 75 minutes per session. Multiple sessions are conducted to accommodate larger groups.</p>	<p data-bbox="1170 1014 1544 1167">This program is conducted in parts, meaning a series of days, weeks, or months for program sessions each with more details about the same robots.</p> <p data-bbox="1170 1209 1503 1304">Suitable for children ages 6 through 14; also suitable for adults and seniors.</p> <p data-bbox="1170 1346 1560 1503">Groups up to 20 can be accommodated to gain hands-on robot experience. Sequential sessions can be conducted to handle larger groups.</p>

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<p data-bbox="94 239 310 275">ER_LMEV3_WS</p> 	<p data-bbox="513 233 980 268">Lego Mindstorms EV3 Workshop(s)</p> <p data-bbox="513 296 1127 621">Exploring the award-winning Lego Mindstorms EV3 robot: review of the robot function diagram, configuring a simple robot from a pre-assembled EV3 basic robot platform as well as using pre-programmed robot behavior to further understand how EV3 is controlled, using the EV3 "smart brick" user interface and controls, creating and running simple and complex programs to operate the EV3 using a laptop computer. Content of each workshop depends on the number of parts contracted.</p> <p data-bbox="513 648 1045 747">Each workshop part typically lasts around 75 minutes per session. Multiple sessions are conducted to accommodate larger groups.</p>	<p data-bbox="1156 296 1533 457">This program is conducted in parts, meaning a series of days, weeks, or months for program sessions each with more details about the same robots.</p> <p data-bbox="1156 499 1490 598">Suitable for children ages 8 through 16; also suitable for adults and seniors.</p> <p data-bbox="1156 632 1549 919">Groups up to 12 can be accommodated to gain hands-on robot experience. Sequential sessions can be conducted to handle larger groups. Clients must have laptops capable of running Lego Education Mindstorms programming software.</p>
<p data-bbox="94 942 266 978">ER_BBK_WS</p>  	<p data-bbox="513 936 911 972">Super BrushBot Kit Workshop</p> <p data-bbox="513 999 1110 1129">Transforming a toothbrush head into a simple robot: review of the robot function diagram, assembling the brush bot kit, decorating the brush bot, and brush bot tinkering time and competition.</p> <p data-bbox="513 1163 1105 1230">Note: There is a separate Super BrushBot kit fee of \$10 payable by each participant.</p> <p data-bbox="513 1264 1089 1394">This workshop typically lasts around 90 minutes per session. Multiple sessions are conducted to accommodate larger groups. May be combined with other program offerings.</p>	<p data-bbox="1156 999 1541 1161">Suitable for children ages 6 through 14 years old. Adult supervision during kit assembly and operation is suggested for younger participants.</p> <p data-bbox="1156 1194 1549 1356">Groups up to 16 can be accommodated to gain hands-on robot experience. Sequential sessions can be conducted to handle larger groups.</p>

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<p data-bbox="94 247 207 279">ER_BPR</p> <div data-bbox="121 480 461 913">  </div> <p data-bbox="196 915 386 940">(Cake not included)</p>	<p data-bbox="513 233 930 264">Birthday Party Robotics Funfest</p> <p data-bbox="513 306 1127 499">This special program can combine elements of our introductory robotics program as well as Cubelets or KIBO or Super Brushbot Kit robotics workshops suitable for the party participants' age group to create a festival of fun. Celebrate and learn while playing with robots. Adult participation is required.</p> <p data-bbox="513 537 1127 632">This program typically lasts from 60 to 120 minutes depending on the level of interest and attention spans of participants as well as content chosen.</p> <div data-bbox="662 663 982 987">  </div>	<p data-bbox="1156 306 1495 432">Suitable for children ages 5 through 10 years old. Adult supervision is required at all times.</p> <p data-bbox="1156 470 1560 663">Groups up to 20 maximum can be accommodated to gain hands-on robot experience. A suitably large indoor venue with tables and chairs must be available to conduct this program.</p> <div data-bbox="1247 699 1471 1033">  </div> <p data-bbox="1224 1035 1495 1060">(Brush Bot kits not included)</p>

Contact Information:		
<div data-bbox="121 1274 461 1579">  </div> <div data-bbox="212 1612 367 1915">  </div>	<p data-bbox="513 1260 618 1291"><u>Mailing</u></p> <p data-bbox="513 1312 894 1451">TSC Robotics Mike Marks, Chief Roboticist PO Box 93 Dedham, MA 20207-0093</p> <p data-bbox="513 1482 597 1514"><u>Phone</u></p> <p data-bbox="513 1535 716 1566">+1 781.686.1434</p> <p data-bbox="513 1608 591 1640"><u>Email</u></p> <p data-bbox="513 1661 834 1692">inquiry@tscrobotics.com</p>	<p data-bbox="1049 1260 1166 1291"><u>Web site</u></p> <p data-bbox="1049 1312 1333 1344">www.tscrobotics.com</p> <p data-bbox="1049 1383 1149 1415"><u>Twitter</u></p> <p data-bbox="1049 1419 1490 1451">www.twitter.com/WranglerRobo</p> <p data-bbox="1049 1493 1560 1524"><u>KinderLab Robotics KIBO Ambassador</u></p> <div data-bbox="1076 1535 1533 1696">  </div> <p data-bbox="1049 1713 1503 1745"><u>VEX Robotics Competition Referee</u></p>

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General Terms & Conditions:	
<p style="text-align: right;">Visit Details:</p> <p style="text-align: right;">Program Fees and Bookings:</p> <p style="text-align: right;">Payments:</p> <p style="text-align: right;">Other Fees:</p> <p style="text-align: right;">Cancellations:</p> <p style="text-align: right;">Drills:</p> <p style="text-align: right;">Equipment and Resources:</p> <p style="text-align: right;">Supervision:</p> <p style="text-align: right;">Unscheduled Programs:</p>	<p>Once a quotation is accepted, we will arrange for a pre-visit to confirm facilities, discuss program details, and perform a technology check as required.</p> <p>Fees are determined on a case-by-case basis depending on the program type and the number of program sessions as well as additional mileage beyond TSC Robotics home base location, 02026, 10 mile radius. Always make an inquiry for a no-obligation quotation to be certain your requirements will be met. Bookings are not final until an invoice has been approved by the client.</p> <p>Invoices are due upon program delivery and paid by check drawn in favor of “Michael A. Marks d/b/a/ TSC Robotics”.</p> <p>For certain venues that require final approval of payment before issuing a check, like municipalities, payment is due 21 days net after program delivery.</p> <p>An administrative fee applies to any program that requires more than three cumulative hours of written or verbal communications to finalize program details. These are billed hourly.</p> <p>Cancellations require 72 hours notice and a \$50 fee applies. If the program can be rescheduled, then the fee is waived.</p> <p>In case of emergencies such as weather conditions, power outages, etc., the program may be rescheduled at no charge when the client provides timely notice and a mutually arranged schedule can be agreed.</p> <p>TSC Robotics reserves the right to cancel, without refund, any session during which unruly and disruptive behavior persists.</p> <p>Clients are requested to notify TSC Robotics in advance about planned drills such as fire, shelter in-place, lockdowns, and active shooter if scheduled during a program.</p> <p>All robotic equipment, resources, and material used in programs remain the property of TSC Robotics except for the Super BrushBot Kit workshop when kits are purchased by the participants or sponsoring organization.</p> <p>The client is responsible for costs associated with missing or damaged equipment used during the program as reported by TSC Robotics.</p> <p>The Lego Mindstorms EV3 and Modular Robotics Cubelets (for older participants) workshops require laptops capable of running the Lego Education Mindstorms EV3 programming environment and Blockly visual programming language, respectively. Blockly requires laptops with Bluetooth wireless connectivity. These computers are provided by the client.</p> <p>Adult supervision must be present at all times during children’s programs. Programs may be postponed or cancelled without refund if supervising adults are not present.</p> <p>Unscheduled programs shall incur additional charges. An unscheduled program involves a request to do a session for a special group or an additional session not previously agreed upon and contracted.</p>