



SU-485-2

Python[®] Scripting with Genie[™] Software

DESCRIPTION

This 2 day course will provide the foundation for using Python in Mirion's Genie 2k Gamma Spectroscopy Software. It will be the basis for understanding how Python interacts with Genie, and how to use Python scripting in your own Genie workflows. This course will demonstrate the principles of Genie customization and will provide hands-on examples showing you how to develop custom scripts and reports through our robust Python integration.

HOW YOU WILL BENEFIT

Attendees who complete this course will develop a functional understanding and working knowledge of the practical use cases of Python in your Genie workflows. This knowledge will allow the attendee to engage with Genie software through Python to access various CAM Parameters, ROI data, Spectrum data, and Calibration data. Managers and supervisors benefit from the assurance that attendees will have the tools necessary to complete their own desired Genie customizations and will have the ability to enhance their workflows to better meet their needs.

WHO SHOULD ATTEND

Personnel with experience in Genie who would like to have a working knowledge of Genie customizations through Python. This course is suitable for personnel with limited Python or programming experience, as some Python fundamentals will be covered.

COURSE CONTENT

- ✓ Python Installation
- ✓ PyCharm Overview
- ✓ Using Python with Genie
 - CAM Parameter Access
 - CAM Data Access (objects)
 - ROI Access
 - Spectrum Access
 - Calibration Access
- ✓ Using Python Scripting in Genie Workflows (Analysis Sequence Files)
- ✓ Practical Exercises, Including:
 - Connecting to the Genie datasource
 - Accessing various CAM parameters
 - Iterating through CAM records
 - Iterating through ROIs and peaks found
 - Accessing spectrum data
- ✓ Brief overview of using Tkinter to develop custom Graphical User Interfaces (GUIs)

PREREQUISITES

Required to have SU-470 Genie Operational Training, or equivalent knowledge and experience, particularly with Genie software.

To register, visit
www.mirion.com/na-courses

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