



RAYACADEMY®

Trainings & Certifications

PKG-20
Advanced Software Packaging
with RayPack

•rayNET

Advanced Software Packaging with RayPack



In this course the participant gets deeper knowledge of software packaging based on the knowledge of the course "Basic Software Packaging using RayPack".

During the "Advanced Software Packaging using RayPack" course, our certified and experienced trainers provide all the necessary knowledge from complex packaging applications to the creation of packaging processes for different types of applications and packages.

The aim is to gain a deeper understanding of the differences between project formats and central file repositories.

By passing the course and the exam, the participant will be able to increase the availability of applications in high quality software packages and to solve problems that arise. With practical exercises MSI patches will be set up, created and imported.

Course	PKG-20 Advanced Software Packaging with RayPack
Duration	4 days
Language	English/German
Prior knowledge	Successful participation in the course "Basic Software Packaging using RayPack" or existing basic knowledge of packaging
Target audience	Administrators, software packagers and system integrators
Certification	At the end of the training each participant will receive a certificate of participation Optionally, a fifth day of training can be arranged for the exam to earn the "RayPack Certified Specialist" certificate.

Content of the training

Day 1	
Introduction and Overview	Update of the Windows Installer basics and theory
	Positioning and significance of software packaging in the lifecycle of business software
In-depth Review of MSI	Basics and MSI database
	Connection of the file tables
	Design of directory table
	Install and control services
	Tables for ODBC records
Introduction to the Dialogues with MSI	Fundamentals and setup of the dialogues
	Analyse and change dialogs and dialog sequences
	Own dialogs
Installation Procedures of the Windows Installer	Installation and uninstallation procedures
	Analysis of the installation sequences and rollback possibilities
	Introduction to Custom Actions
Special Topics	Handling of user resources
	Tables for the COM server installation, ActiveX
	Active Setup
	Distribution of configuration data and settings via MSI
Practical Exercises	Setup of the environment
	Separation of resources into user and machine resources
	Change the order of the Windows action RemoveExistingProducts

Day 2	
Practical Installation Procedure	Install Immediate and Install Deferred
Custom Actions	MSI-compliant extension of the standard functionality via own tables and custom actions
	MSI Logging (VBScript)
	Create own MSI tables
	Reading MSI tables in a custom action
	Creating function libraries by including custom actions in merge modules
ICE Validation	Summary of the most common validation errors
	Explanations and possible solutions
	Validation using own ICES
Practical Exercises	MSI Logging of the Custom Action

Day 3	
Updates and Upgrades	Definition of the update properties Major, Minor & Build Upgrades
Handling MSP Patches	Functionality of an MSP patch
	Patches and administrative setups
	Installing a patch
Security and Rights	Working with RayPack and Sysinternals Process Monitor
	Handling the rights of registry and files and directories
	Set permissions with Security Templates (and other methods)
Terminal Server Packaging	Basics
	Clarification of multi-user capability
	Redirect from INI files to the Registry
Installation of Device Drivers using the "New Driver Wizard"	
Handling MS SQL Server Databases and SQL Scripts	
Handling MS IIS Web Server	
Introduction and Handling of PackBench	
VM with RayPack, PackBot	
Practical Exercises	Installation of device drivers
	Creating an MSP patch, slipstreaming an MSP patch

Day 4	
Automation Interfaces from RayPack: Commandline-Interface (CLI from RayPack)	
Delegation of Activities to remote Machines (VMware, Hyper-V)	
Exemplary Packaging in a VMware / Hyper-V Environment (practical Implementation)	
Using PackDesigner Scripts	
PackWrapper	
Introduction to RegEx – Regular Expressions	
Using and Configuration of Complexity Index	
RayPack Standalone Tools: AppV Launcher, ODBC Scanner, PackRecorder Standalone	
Practical Exercises	Connection from RayPack to RayFlow client
	Preparation and creation of a PackWrapper

Day 5 (optional)	
Review of Test Content	
Theoretical and practical Examination	
Certification	

RayAcademy – The right training for every area

The modular training concept of the RayAcademy offers a variety of qualification and advanced training courses and enables both a complete qualification process and targeted specializations in the area of Application Lifecycle Management.

The academy offers regular training courses for all products and services of Raynet and its partners within the Application Lifecycle Management. Raynet also has the world's first and unique training program in the field of software management and packaging consulting.

As a service provider for learning and training units Raynet develops current scenarios and adapts them to the in-house education management of the customers.

AZAV Certified Training Partner

As an accredited institution under the law on employment promotion, Raynet meets the requirements of the accreditation and licensing regulation for employment promotion – AZAV.

Therefore, Raynet offers measures of continuing education according to the fourth section of chapter three in book three of the Social Code.

About Raynet

Raynet GmbH is a leading and innovative service and solution provider in information technology and specialized in the architecture, implementation and operation of all tasks within Application Lifecycle Management. Raynet's Headquarters is in Paderborn, Germany and has additional locations throughout the region as well as locations in the USA, Poland and the UK.

For more than 20 years, Raynet supports hundreds of customers and partners with its products and solutions for worldwide enterprise application management projects. These include license management, software packaging, software deployment, migrations, client engineering and much more. Additionally, Raynet maintains and cultivates strong partnerships with leading companies in Application Lifecycle Management.