Publication date : 07/09/2024

Course : CATIA V5 - Electrical Systems EHI EHA EHF

Official Dassault Systèmes course

Practical course - 3d - 21h00 - Ref. CAK
Price : 1670 € E.T.

With this training, you will discover the EHI (Electrical Harness Installation), EHA (Electrical Harness Assembly), and EHF (Electrical Harness Flattening) electrical systems in CATIA V5 software. You will learn and put into practice electrical harness design methods. This training is intended for electrical harness designers and engineers who need to design electrical harnesses for automotive applications.

Teaching objectives

At the end of the training, the participant will be able to:

- Creating electrical harnesses and placing equipment
- Flatten harnesses for manufacturing

Intended audience

Electrical systems designers.

Prerequisites

Master the basics of CATIA V5 or have completed the training courses "CATIA V5 - Basics" (ref. CAA) and "CATIA V5 - Advanced" (ref. CAC).

Certification

Official Dassault Systèmes course with no certification objective.

Practical details

Teaching methods

Exercises alternating theory and practice, practical work and projects.

Course schedule

PARTICIPANTS

Electrical systems designers.

PREREQUISITES

Master the basics of CATIA V5 or have completed the training courses "CATIA V5 - Basics" (ref. CAA) and "CATIA V5 - Advanced" (ref. CAC).

TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

ASSESSMENT TERMS

Assessment of targeted skills prior to training.
Assessment by the participant, at the end of the training course, of the skills acquired during the training course.
Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.
At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.
An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

1. **Introducing the EHI - EHA workshop**
   - Electrical Harness Installation - Electrical Harness Assembly (EHI - EHA).
2. **Learn harness design methods**
3. **Present electrical functions**
4. **Organize a "product structure"**
5. **Set EHI EHA EHF module options**
6. **Créer le harnais**
7. **Insert and position connectors and brackets**
8. **Créer les différentes branches du faisceau**
9. **Managing branch diversions**
10. **Defining junctions**
11. **Remove and replace components**
12. **Duplicate bundle**
13. **Harness analysis**
14. **Introducing the EHF (Electrical Harness Flattening) workshop**
15. **Set flattening parameters**
16. **Extract 3D data**
17. **Lay harnesses flat on a surface**
18. **Handling branches**
19. **Add length tolerance for manufacturing**
20. **Synchronize and update data**

TEACHING AIDS AND TECHNICAL RESOURCES
The teaching resources used are the publisher's official materials and practical exercises.

TERMS AND DEADLINES
Registration must be completed 24 hours before the start of the training course.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES
Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: psh-accueil@orsys.fr so that we can assess your request and its feasibility.

21 **Harness layout with bill of materials**

Dates and locations

REMOTE CLASS
2026 : 31 Mar., 26 May, 13 Oct., 17 Nov.

PARIS LA DÉFENSE
2026 : 31 Mar., 26 May, 13 Oct., 17 Nov.