PLANET

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PLANET – PLan for Agriculture reNewable Energy Training

D4.3 - Integrated training content for trainers and trainees on the platform	
Document description:	The English training content for trainers and trainees will be integrated to the online platform.
Partner responsible:	UNITO
Due date:	Thursday, 28 February, 2019
Work package title:	Development of the learning platform
Task title:	Task 4.3: Development of the trainers and trainees section
Status (F: final; D: draft; RD: revised draft):	F

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1 Task description

Based on the training and educational materials produced by project partners in WP2 and WP3, UNITO will coordinate the uploading of the different English modules on the platform. It will include on-line materials (PDF, videos, homework, assessment and discussion forums).

The partners responsible of the content in WP2 and WP3 will help also to prepare and upload the material.

Based on the received material, UNITO will built the assessment, the monitoring system and the survey that will be used to follow the evaluation of the trainees and their satisfaction.

2 Hosting platform description

As described in the D4.1, the hosting platform chosen is Moodle, a learning platform designed to provide educators, administrators and learners with a single robust, secure and integrated system to create personalised learning environments.

Powering tens of thousands of learning environments globally, Moodle is trusted by institutions and organisations large and small, including Shell, London School of Economics, State University of New York, Microsoft and the Open University. Moodle's worldwide numbers of more than 90 million users across both academic and enterprise level usage makes it the world's most widely used learning platform.

Because it is open-source, Moodle can be customised in any way and tailored to individual needs. Its modular set up and interoperable design allows developers to create plugins and integrate external applications to achieve specific functionalities.

2.1 Licensing, data security and user privacy

Moodle is provided freely as Open Source software, under the GNU General Public License. Anyone can adapt, extend or modify Moodle for both commercial and non-commercial projects without any licensing fees and benefit from the cost-efficiencies, flexibility and other advantages of using Moodle. The PLANET Consortium therefore decided to use Moodle and adapt it to the training needs.

Regarding data security and user privacy, security controls are constantly being updated and implemented in Moodle development processes and software to protect against unauthorised access, data loss and misuse. UNITO, which is in charge for the creation of the platform, will update monthly the core of Moodle and its plugins to have

always the latest updates on security. Finally, communication between the server and the client applications are encrypted using the HTTP-Secure protocol, which ensures data confidentiality during the connections.

2.2 User Access

Considering that there will be two sections in the PLANET platform, one for trainers and one for trainees, and the PLANET consortium will control the access to both sections:

Registration for trainers: the PLANET consortium wants to grant access to the trainers' section only those trainers who meet a set of pre-defined eligibility criteria, consequently the PLANET platform administrator (in the person of Alessandro Sopegno, UNITO) can grant access to a list of potential trainers and their email addresses. The administrator would then grant them access to trainers' section by creating a user account linked to their email addresses.

Registration for trainees: It will be used the same procedure described in the registration for trainers, but the registration process will be managed from the PLANET consortium training centres under the supervision of the PLANET platform administrator (in the person of Alessandro Sopegno, UNITO).

2.3 Sections available and navigation

With over 10 years of development guided by social constructionist pedagogy, Moodle delivers a powerful set of learner-centric tools and collaborative learning environments that empower both teaching and learning. This allowed the same platform to be used for both trainee and trainers training.

For this purpose, there are two separate sections available in the platform:

1. Trainees section, containing all the material for the learning modules for trainees: the on-line, in-class content and the guidelines for the work-based learning period.
2. Trainer section, containing all the material for the trainers' training toolkit that aims at giving to the trainers the tools and competences to use properly the training content created in WP2 and the necessary skills to manage the flipped classroom with online, in class activities and work-based periods.

Regarding the navigation, a simple interface, drag-and-drop features, and well-documented resources make this Moodle platform easy to learn and use. Furthermore, Moodle provides the most flexible tool-set to support both blended learning and 100% online courses. Moreover, for this reason the PLANET consortium through the complete range of built-in features of Moodle, including external collaborative tools such as forums, wikis, chats and blogs, made the e-learning portal using Moodle.

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Another important aspect to consider is that Moodle can be scaled to support the needs of both small classes and large organisations. Because of its flexibility and scalability, Moodle has been adapted for use across education, business, non-profit, government, and community contexts. In addition, it is perfect for the multi-lingual and multi-national training that will be developed for PLANET. Finally the platform is web-based and so can be accessed from anywhere in the world. With a default mobile-compatible interface and cross-browser compatibility, content on the Moodle platform is easily accessible and consistent across different web browsers and devices.

In respect of the specification of D4.1, simply perceivable icons are available and help users to visualize information what they stand for and what the user have to expect. In general, as it is possible to see in all the images of chapter 3 of this document, to simplify the user experience, we made large icons that once the user click lead to the material they want to see. This applies to videos, documents, presentations with notes and external links. Following the icons:

- preview of the video 
- documents icon 

- documents with notes 

- external link icon 

2.4 Languages available

Moodle's multilingual capabilities ensure there are no linguistic limitations to learning online. The Moodle community has begun translating Moodle into more than 120 languages (and counting) so users can easily localise their Moodle site, along with plenty of resources, support and community discussions available in various languages.

Thanks to these features, it was possible to develop the multilingual aspect of the platform, which is available in the following 5 languages:

- English
- Italian
- Dutch
- French
- German

This will allow, after the optimisation that will be performed in Task 4.5 and the translation that will be performed in Task 2.4 (for the trainees modules) and Task 3.3 (for the trainers module) to show all the contents for the trainees and for the trainers in the 5 languages available.

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3 Results

3.1 Online platform overview

In this chapter, you can see the result obtained after applying the specifications of D4.1 to create the e-learning platform of the PLANET course.

The following is the main page of the e-learning platform made for the PLANET project, in which it is possible to see the list of all available courses of the PLANET training course.

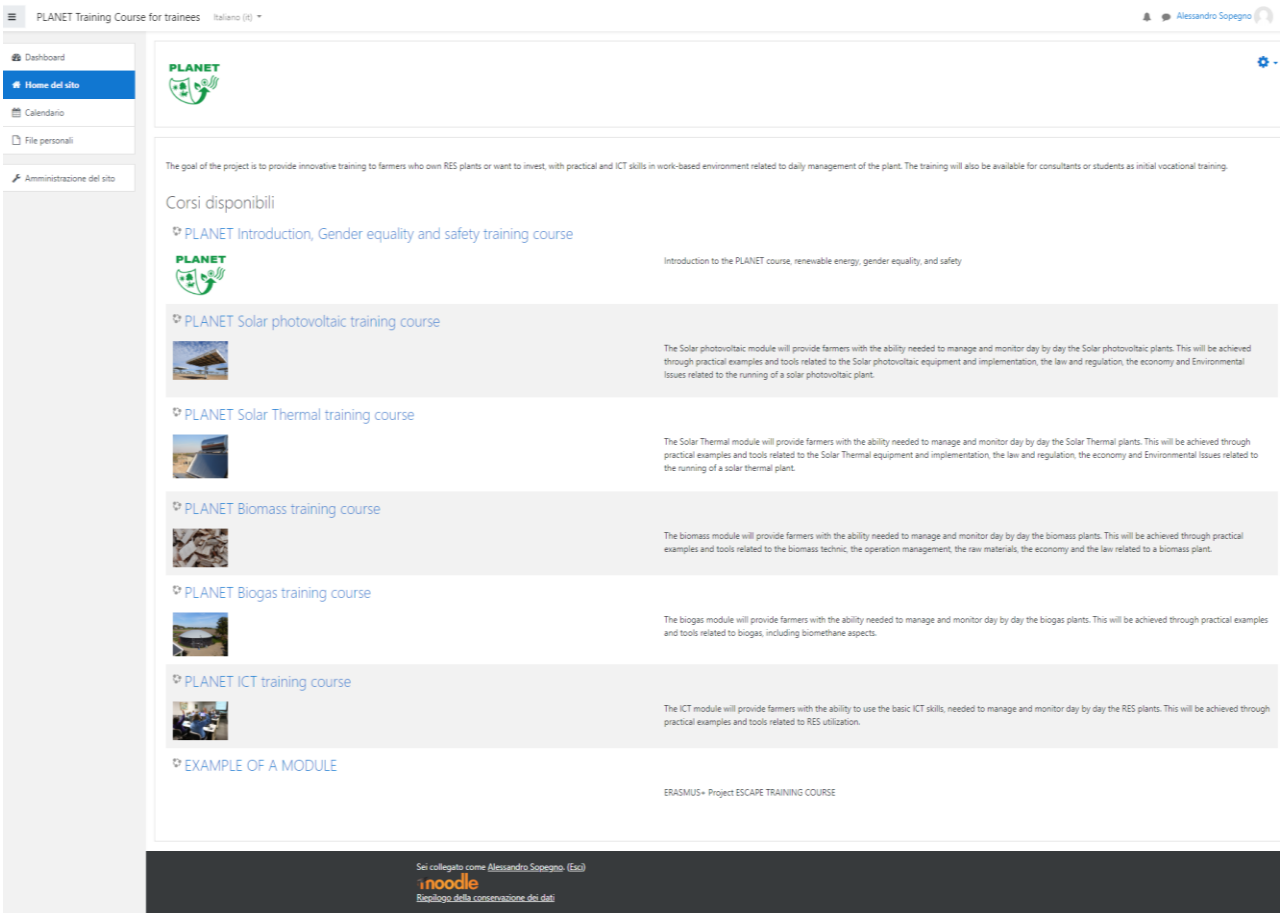

Figura 1

As you can see in figure 1, in the section dedicated to trainees there are 5 modules:

- PLANET Introduction, Gender equality and safety training course
- PLANET Solar photovoltaic training course
- PLANET Solar Thermal training course
- PLANET Biomass training course
- PLANET Biogas training course
- PLANET ICT training course

These modules are available also for the trainers sections. Through this screen, trainees or trainers can enter the individual modules to view the training contents.

3.2 English training content for trainers and trainees

The English content of the PLANET training course for both trainees and trainers is available at the following link:

https://www.erasmus-planet.eu/course/

To view the contents without logging in, we have made the screenshots of all modules available in Annex 1. Annex 2 contains information on tests and methods for evaluating trainees' learning.

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ANNEX 1 : English training content for trainers and trainees, ALL MODULES

PLANET INTRODUCTION COURSE

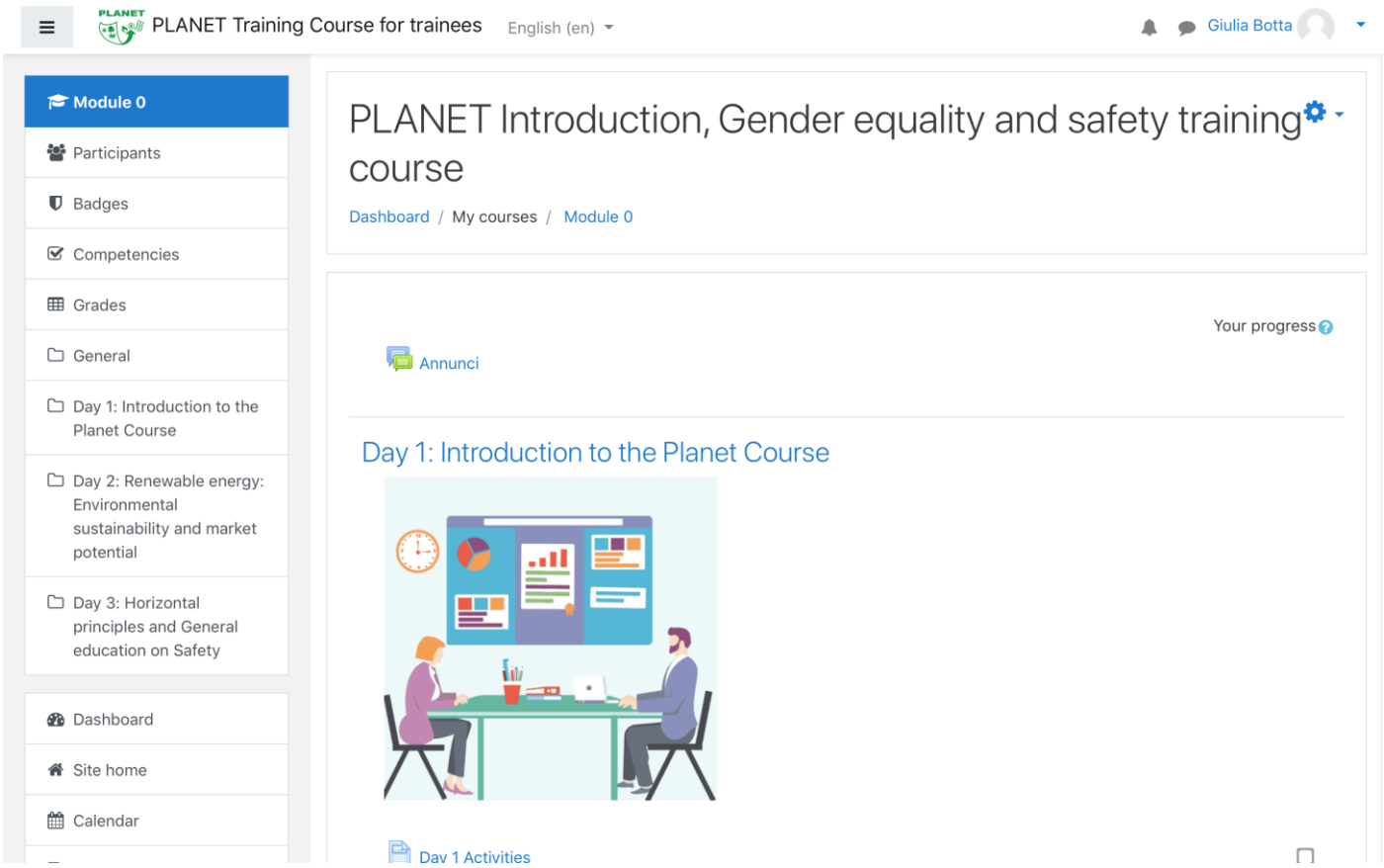

Figura 1

PLANET – PLan for Agriculture reNewable Energy Training

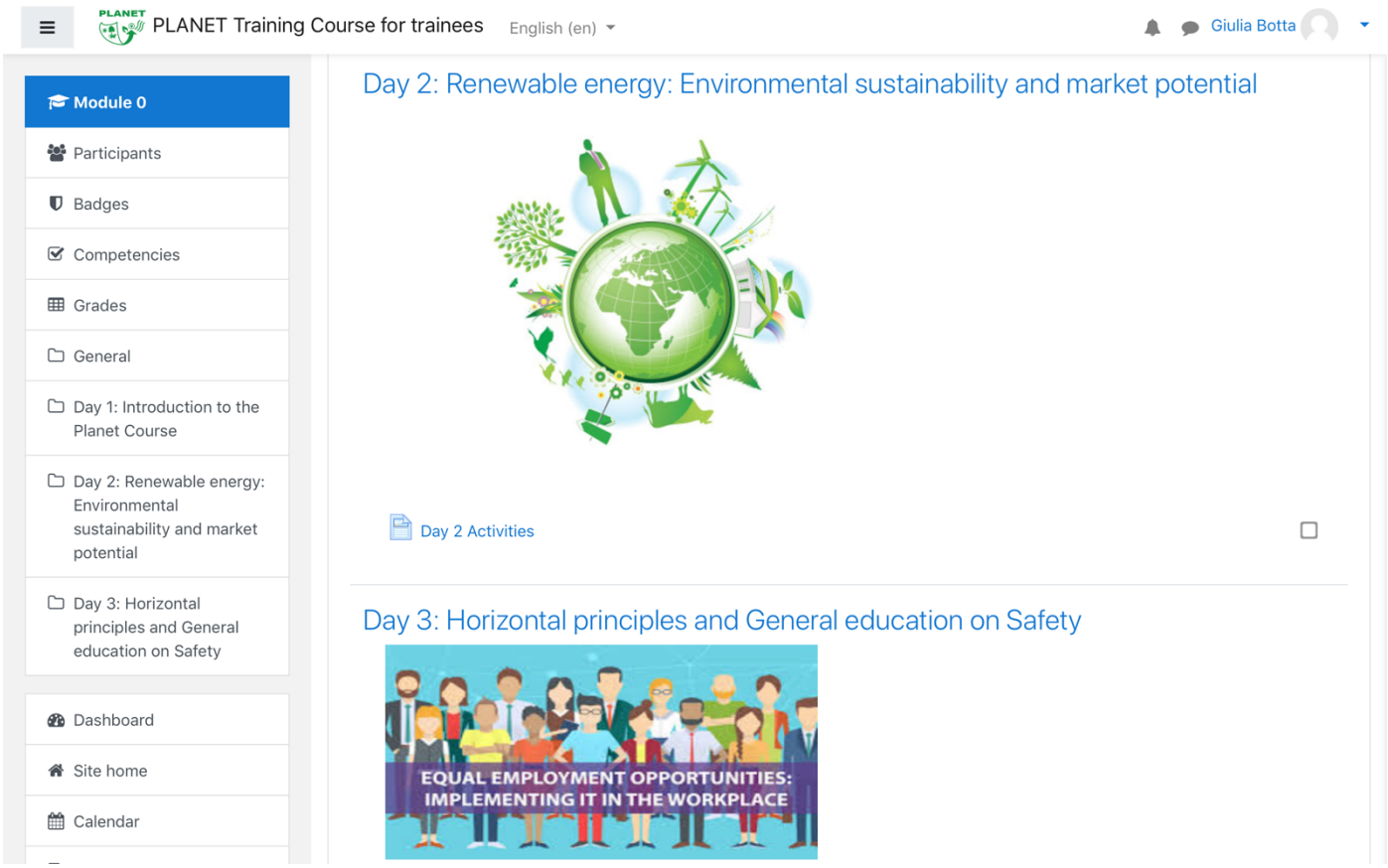

Figura 2

PLANET – PLan for Agriculture reNewable Energy Training

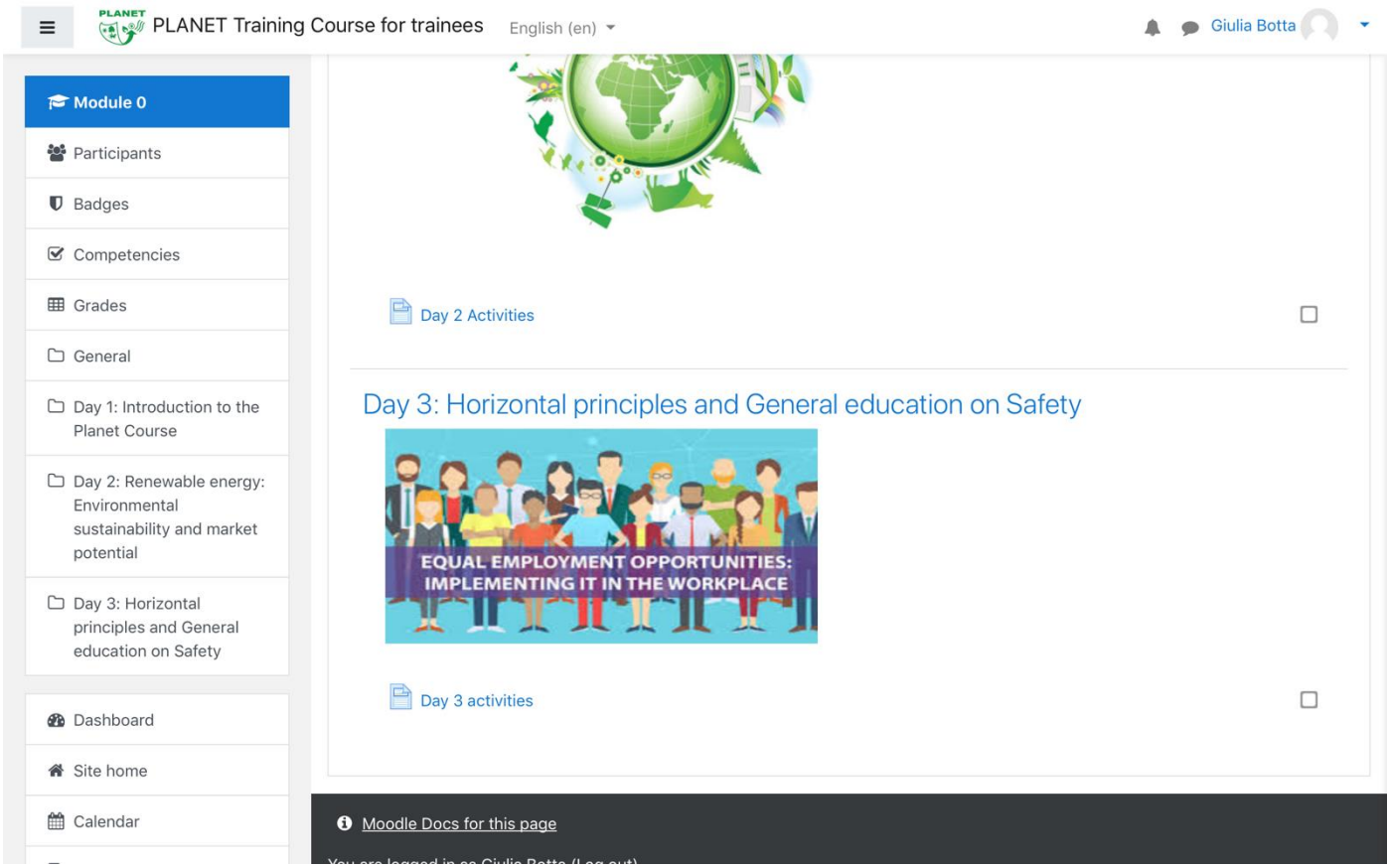

Figura 3

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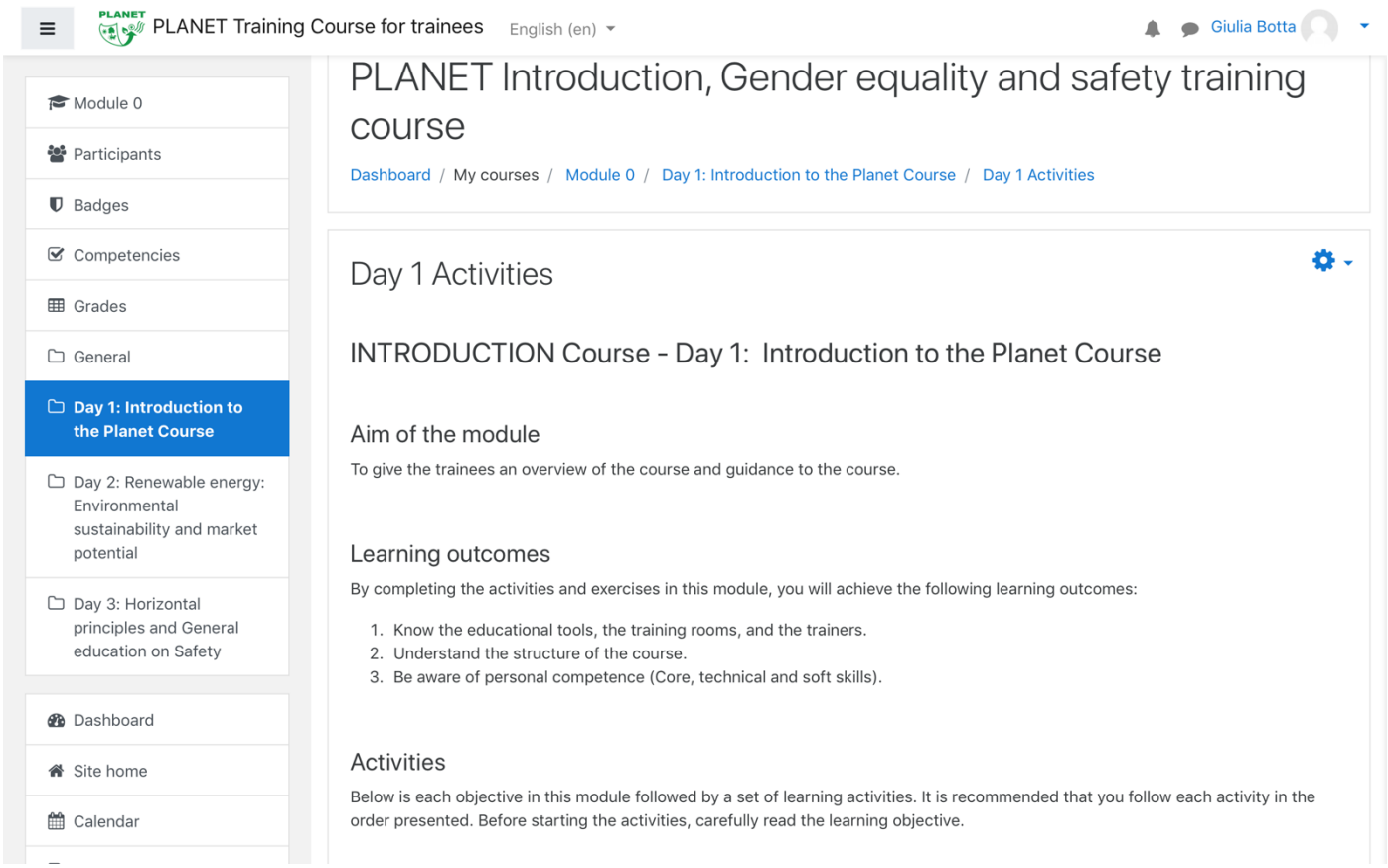
DAYS STRUCTURE

ONE:



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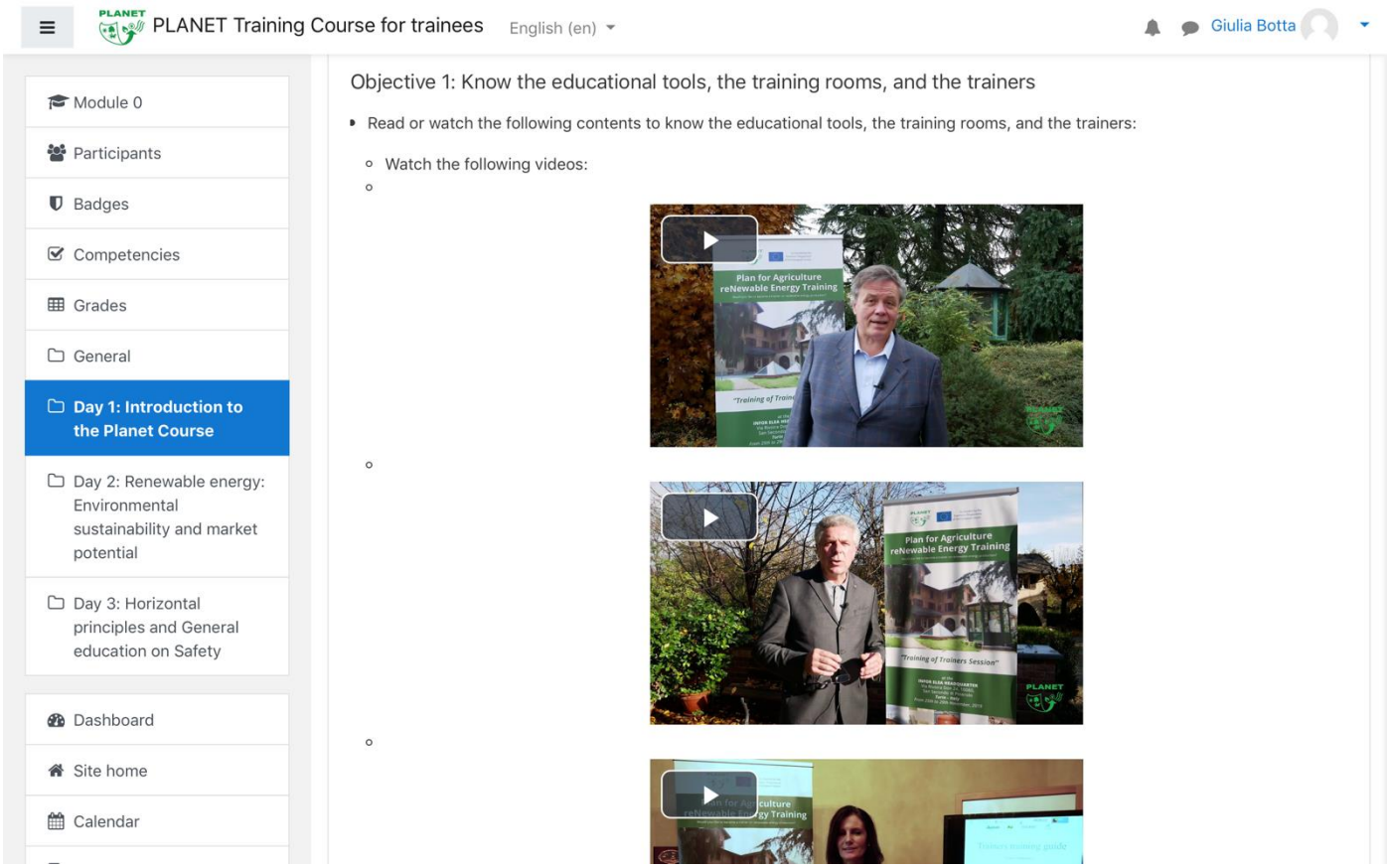
PLANET – PLan for Agriculture reNewable Energy Training



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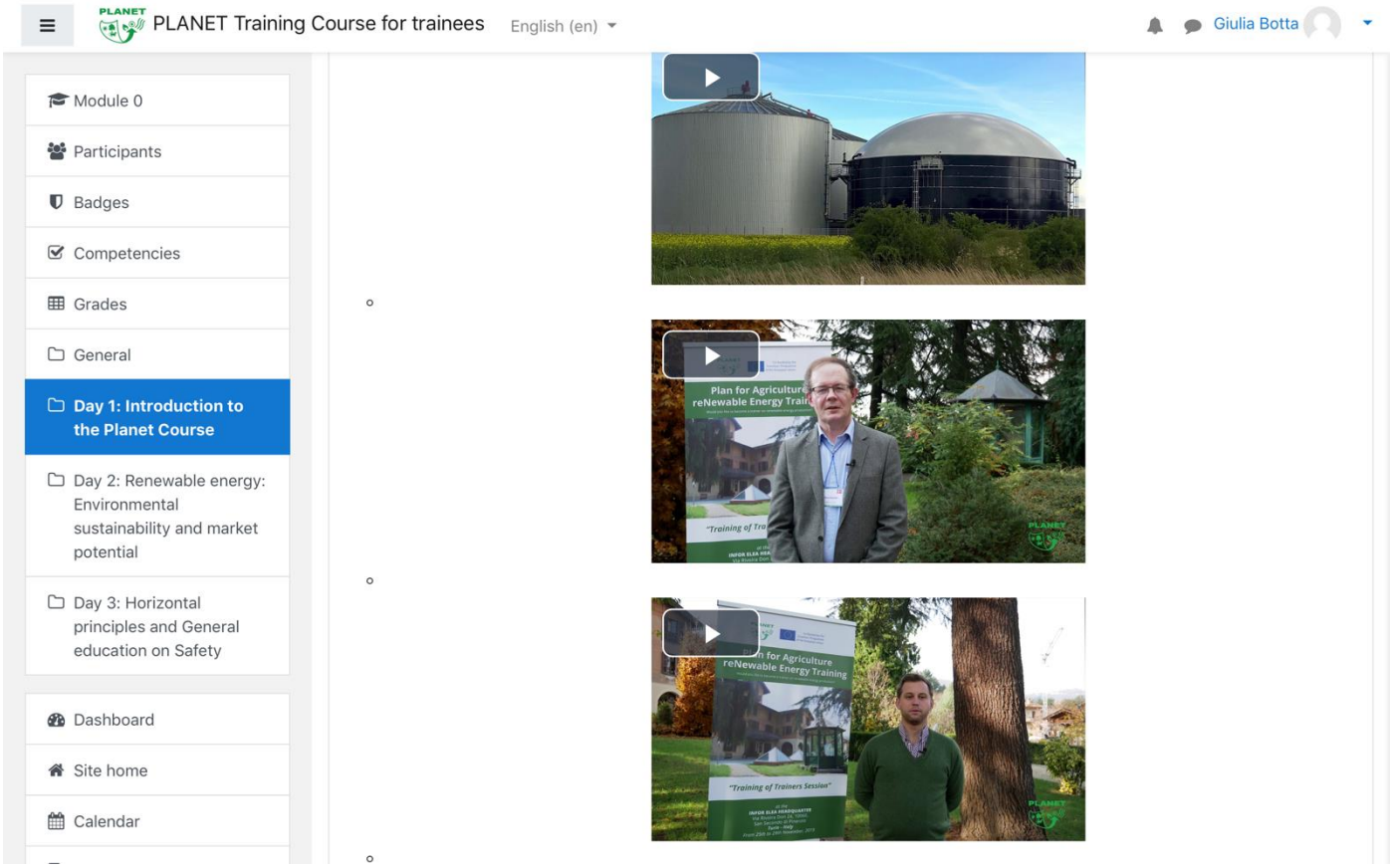
PLANET – PLan for Agriculture reNewable Energy Training



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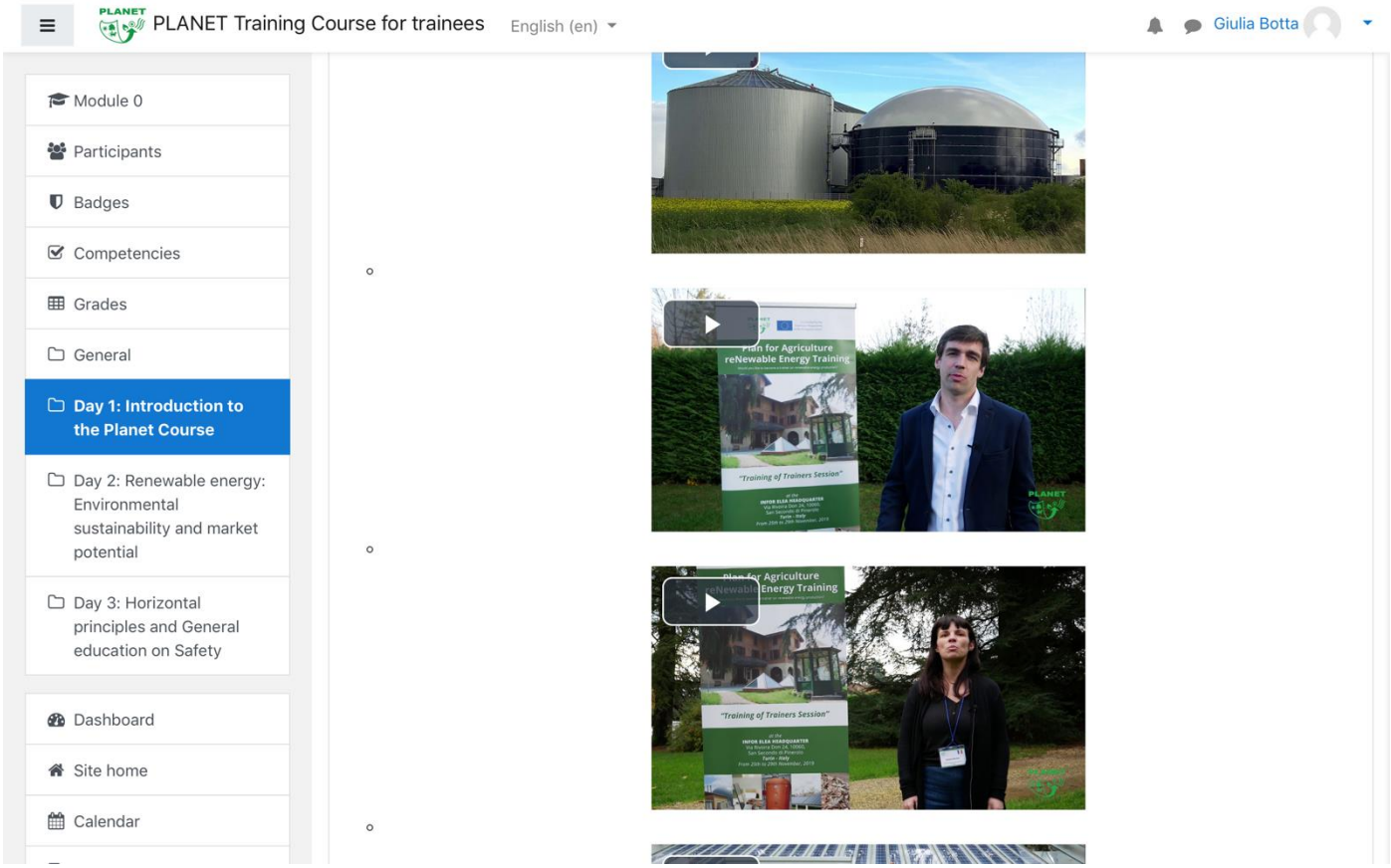

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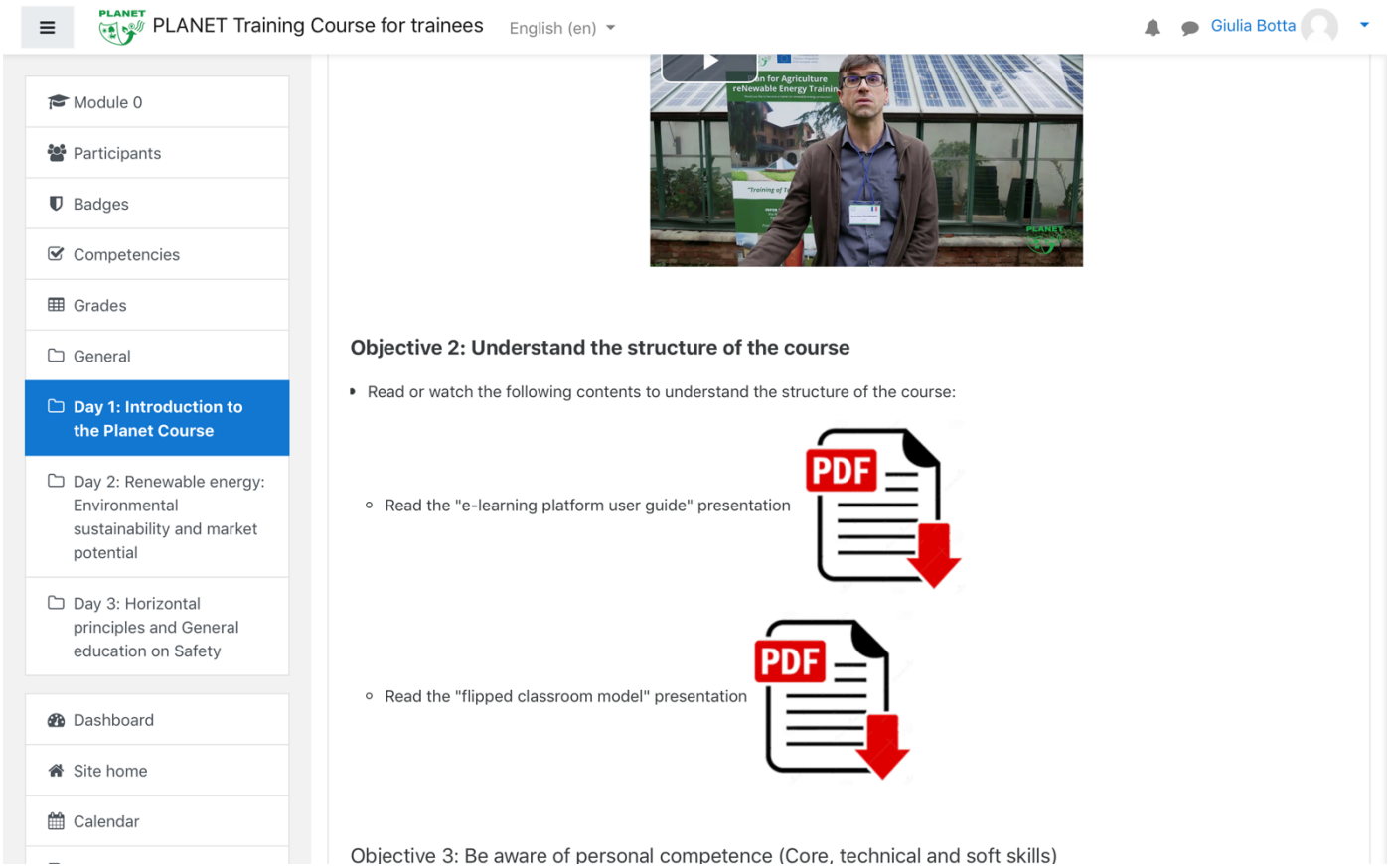

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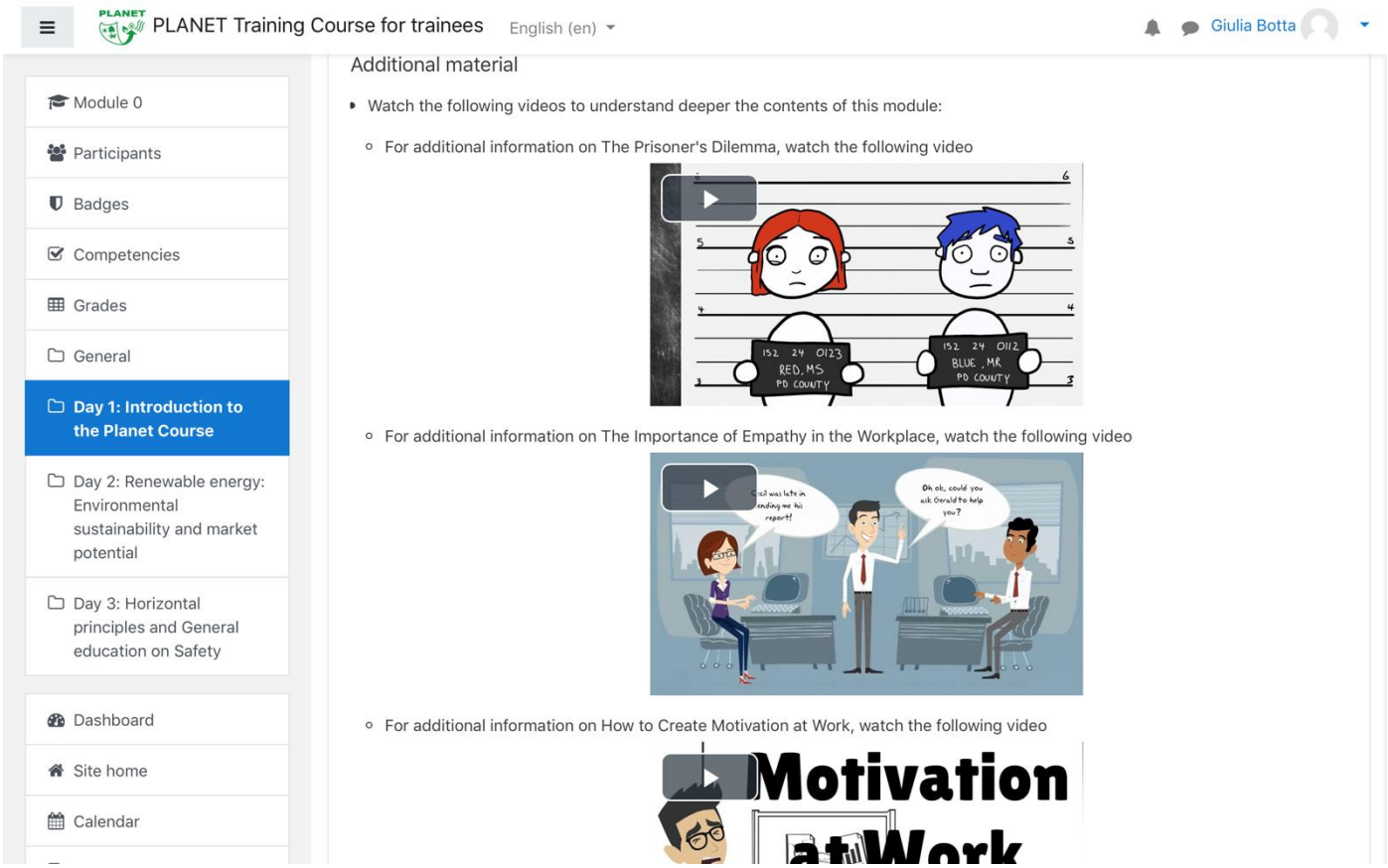

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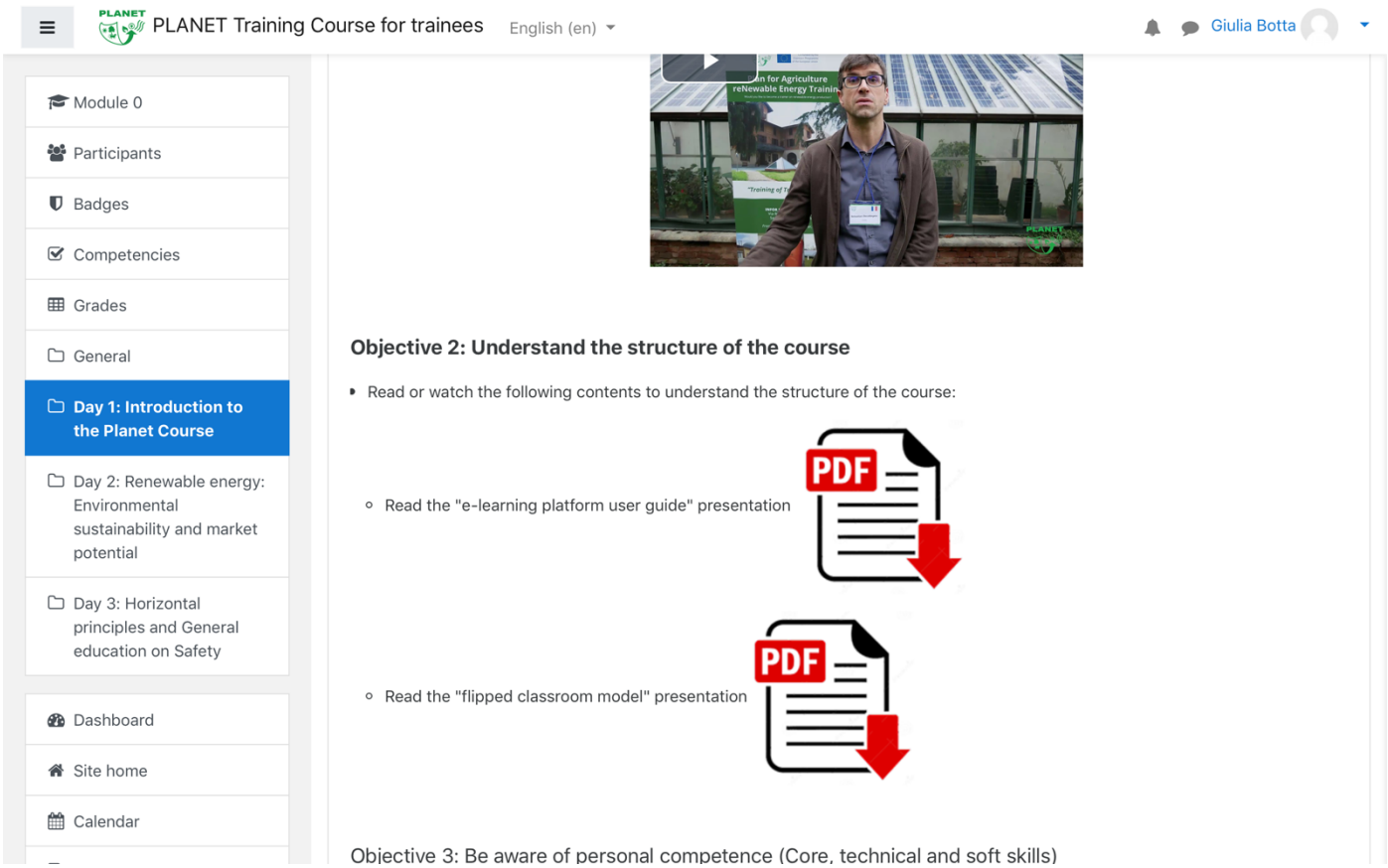

Figura 10

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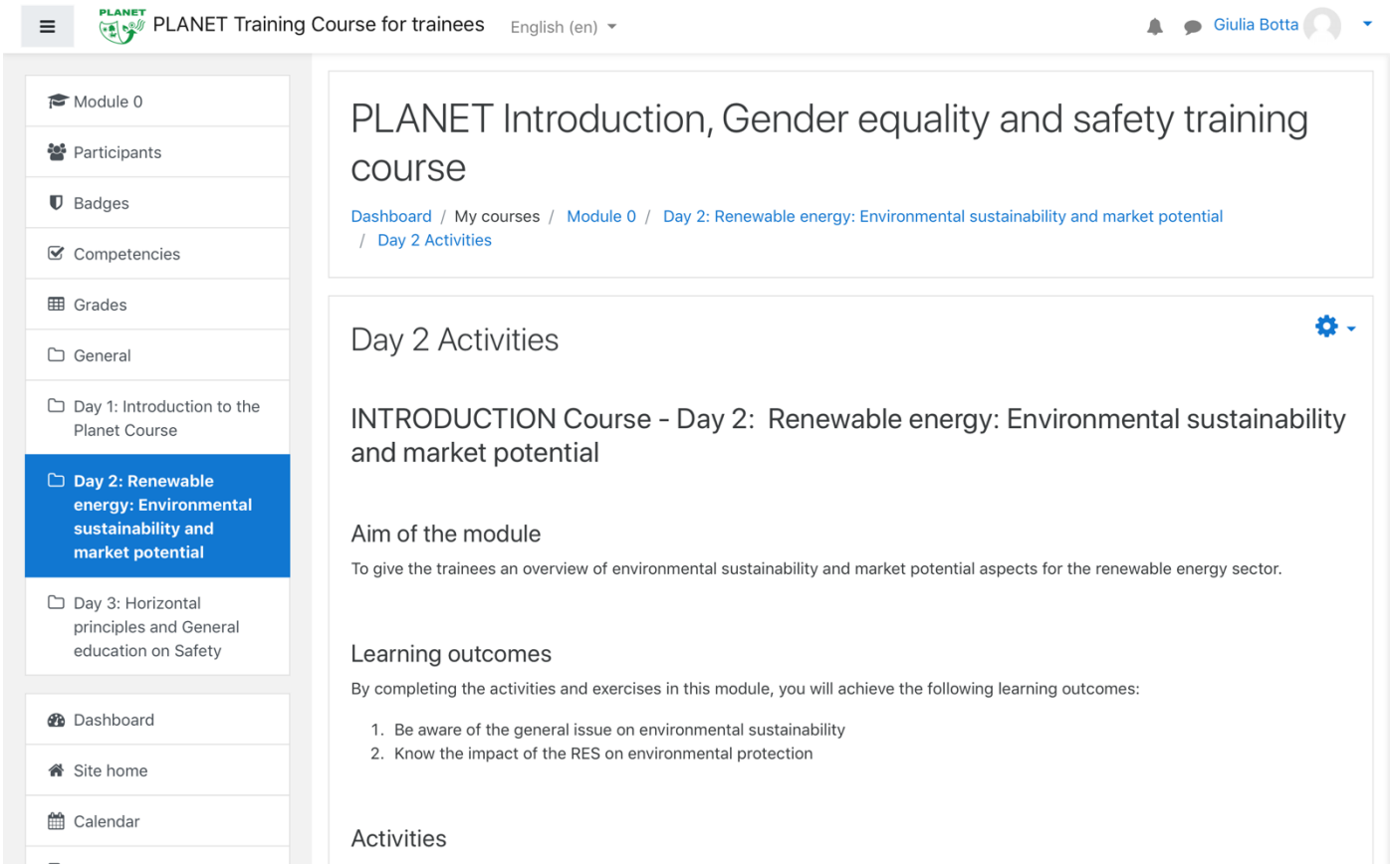
TWO:



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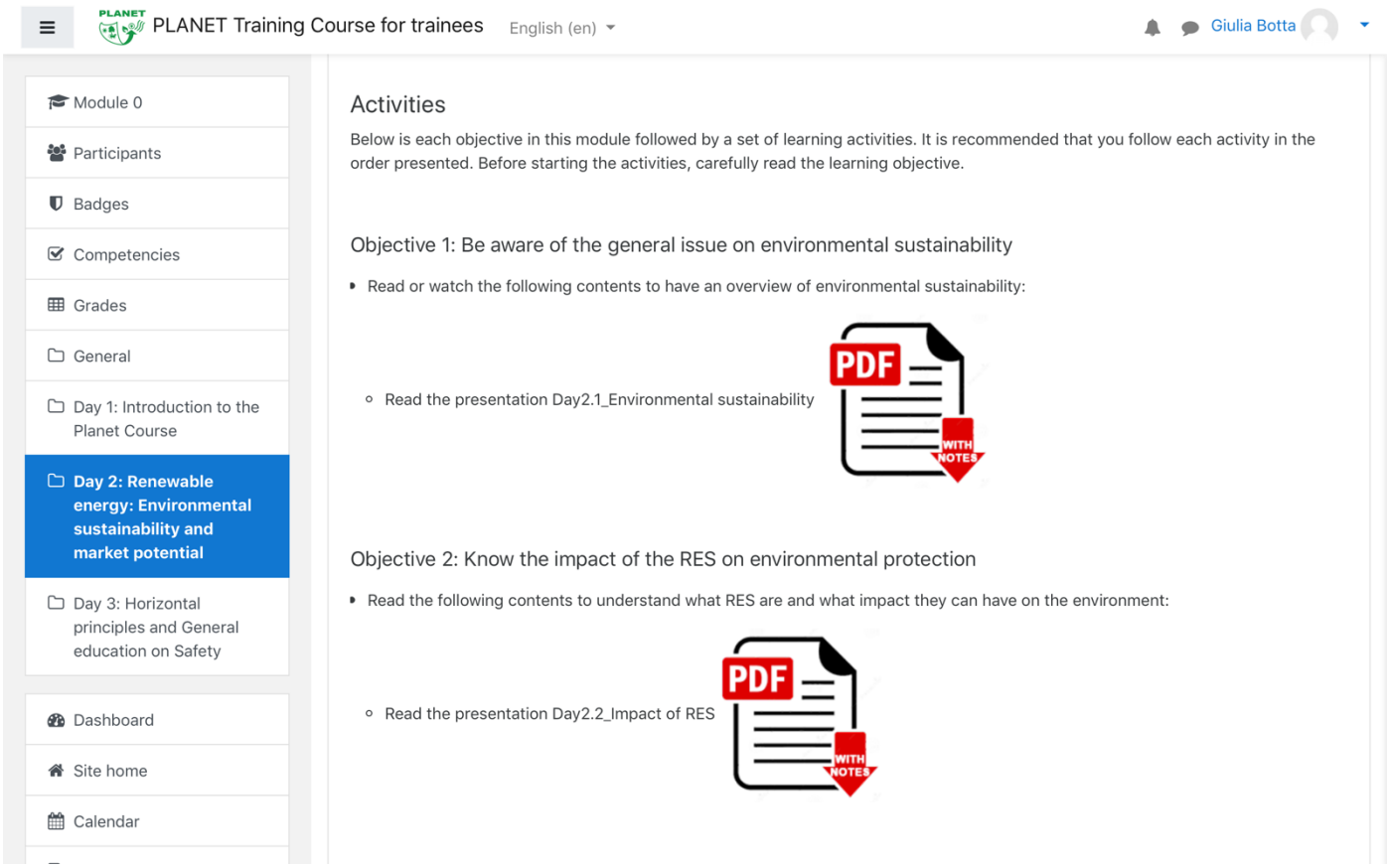

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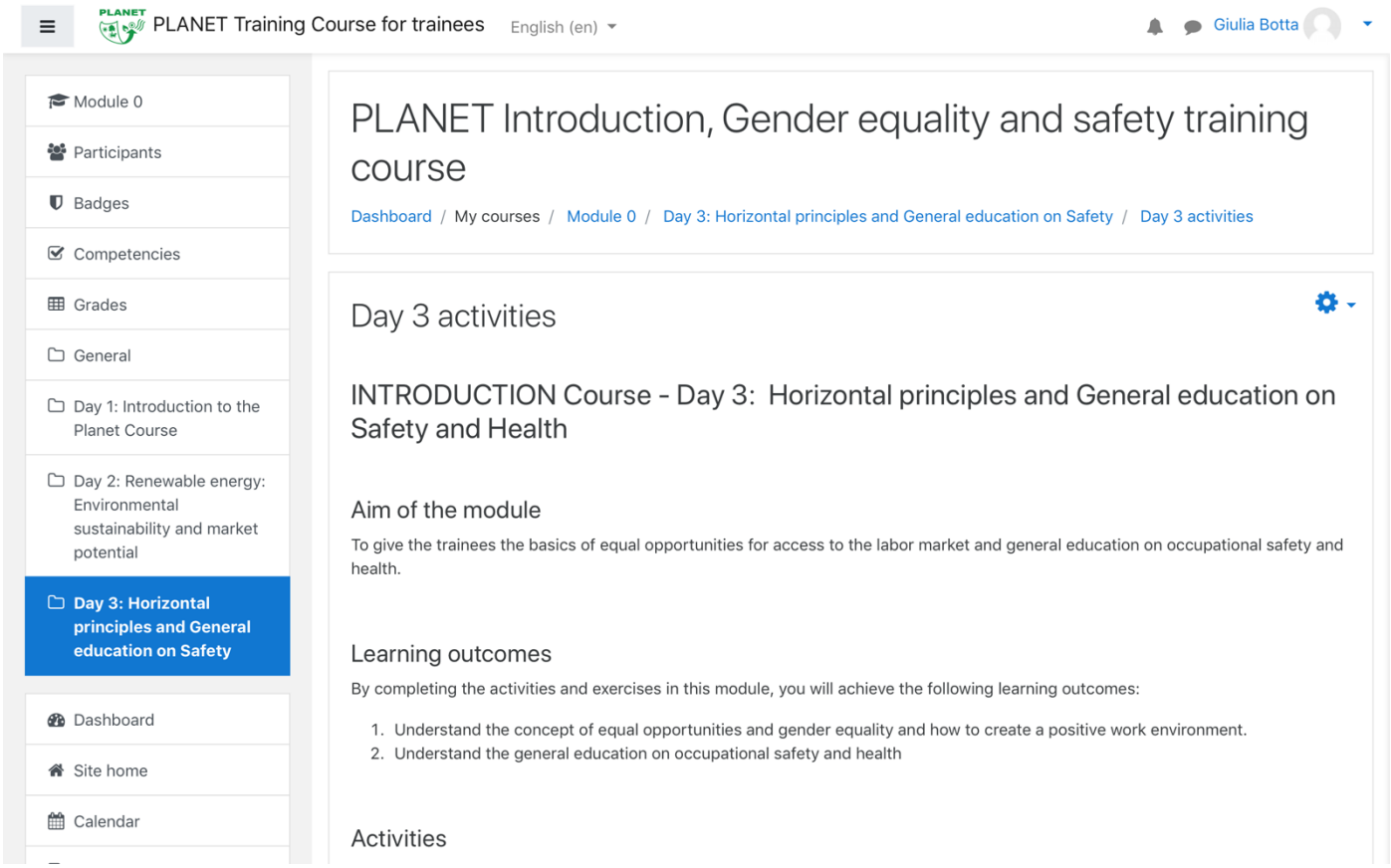

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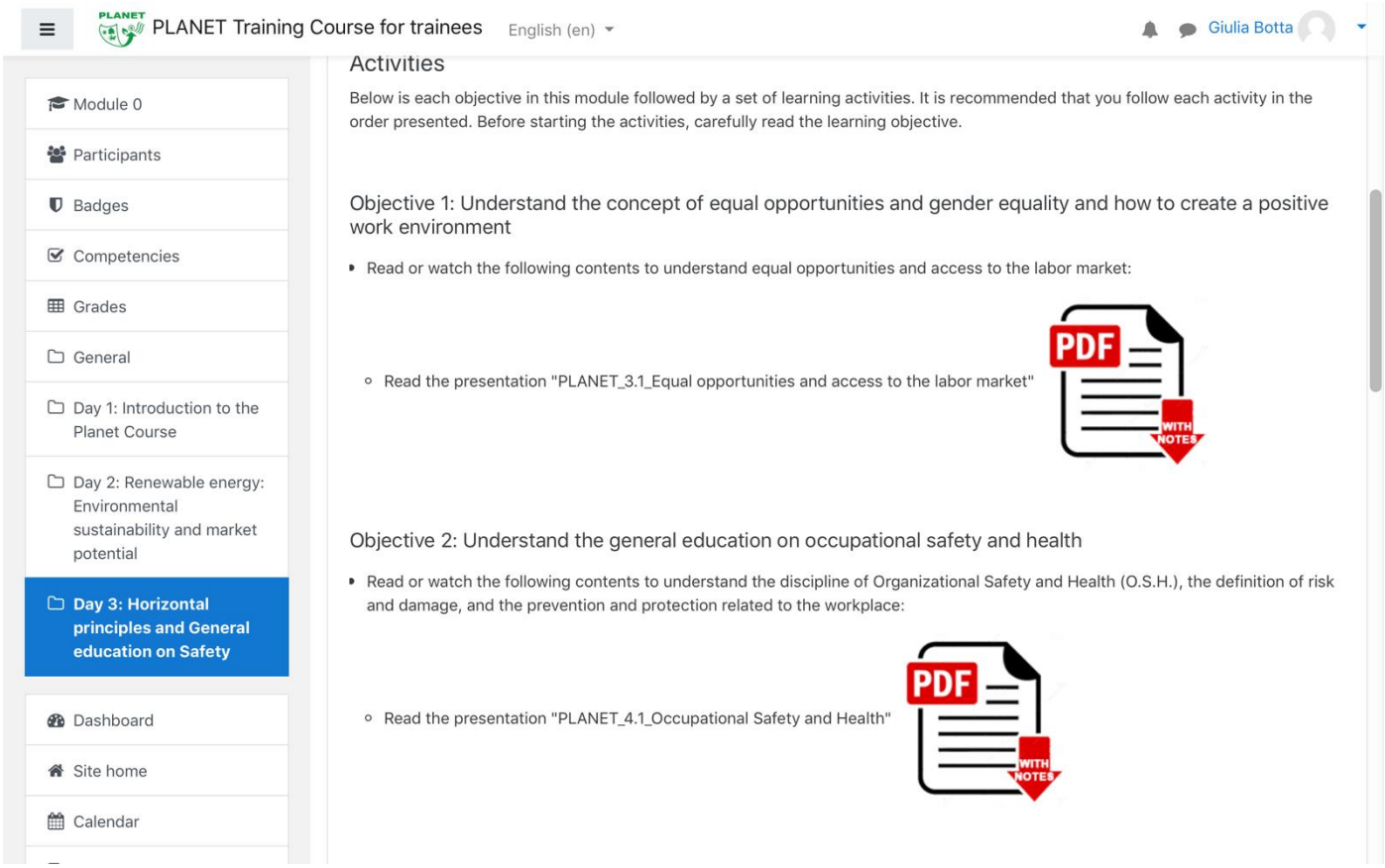

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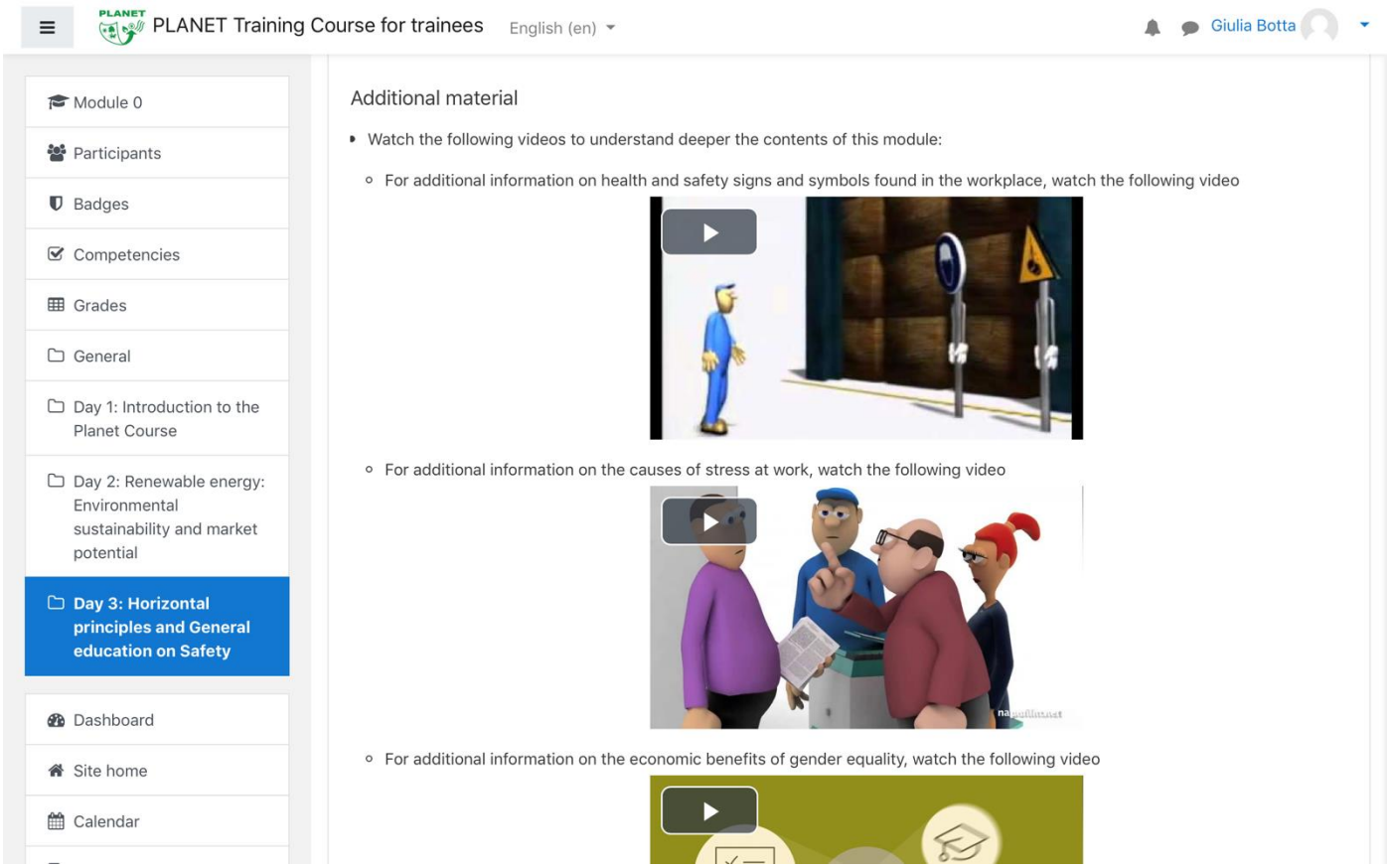

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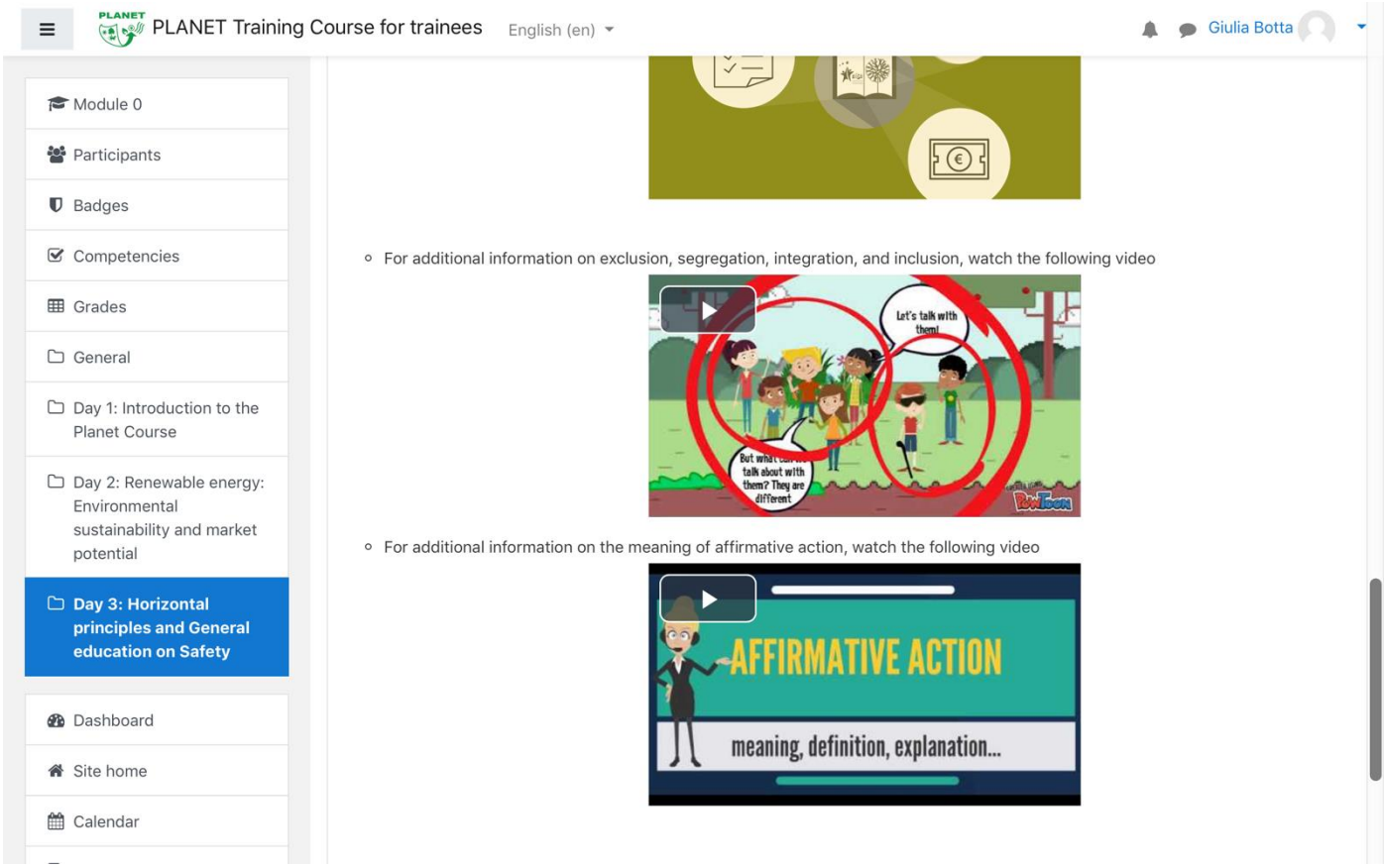

Figura 16

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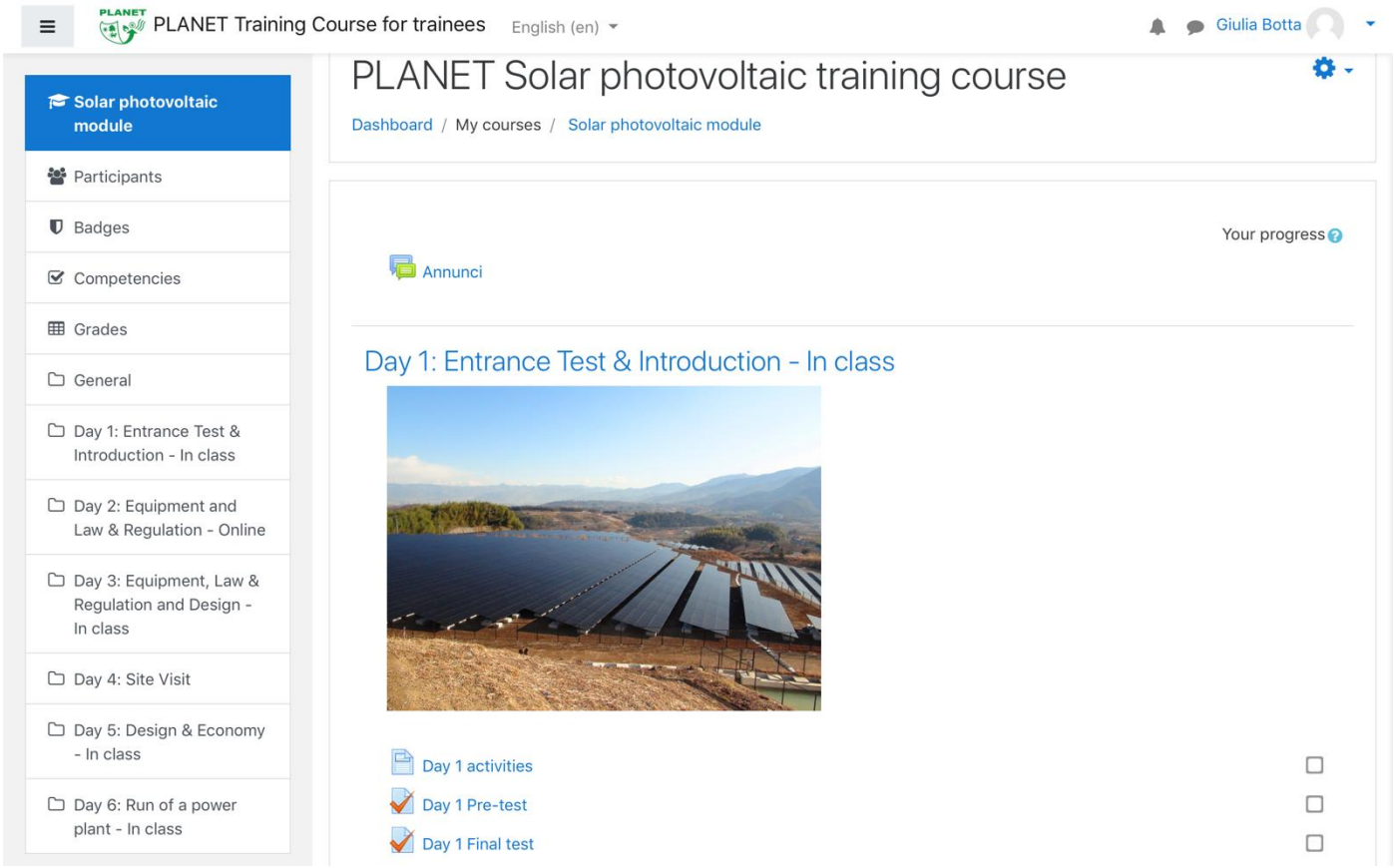
PLANET SOLAR PHOTOVOLTAIC TRAINING COURSE



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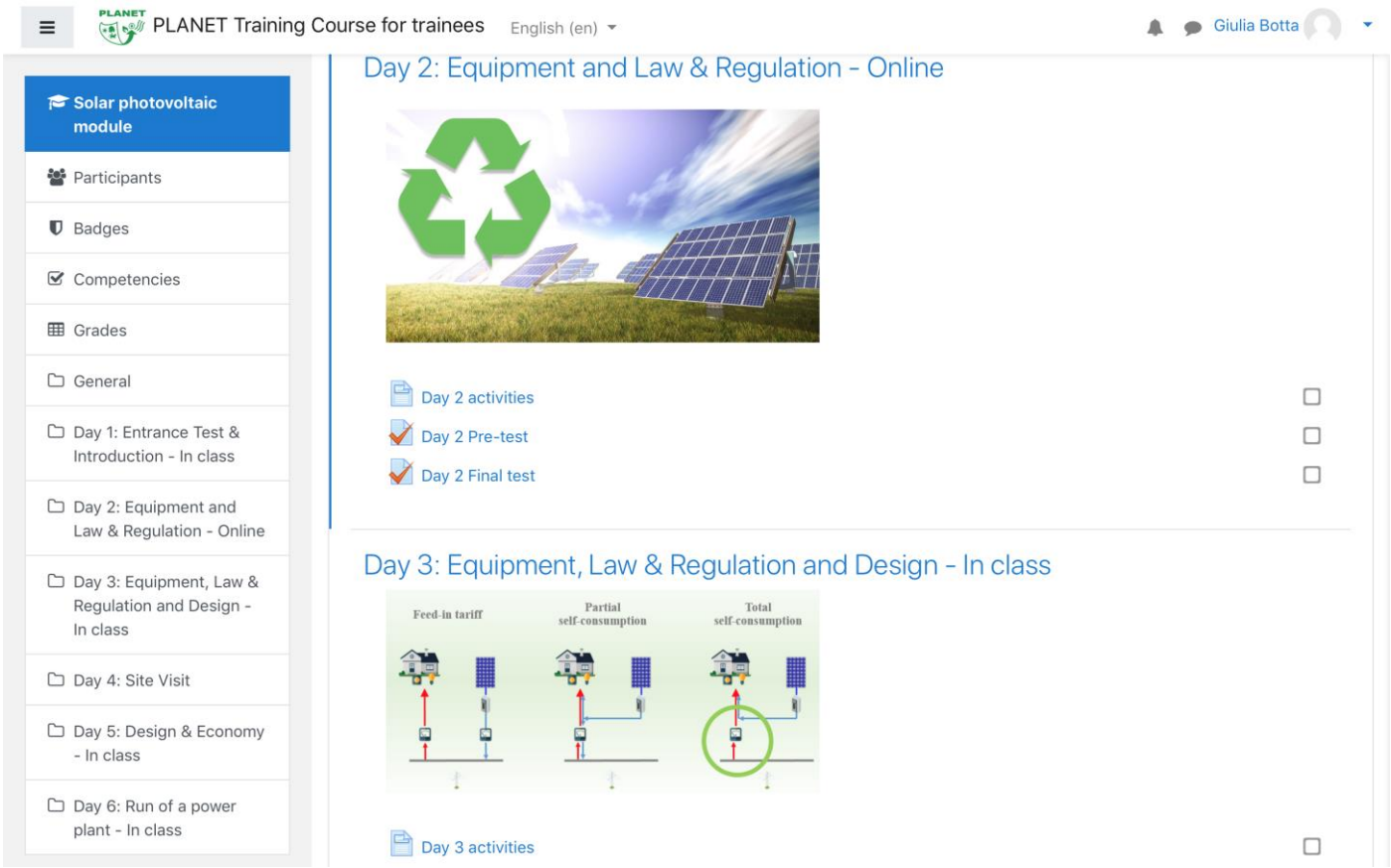

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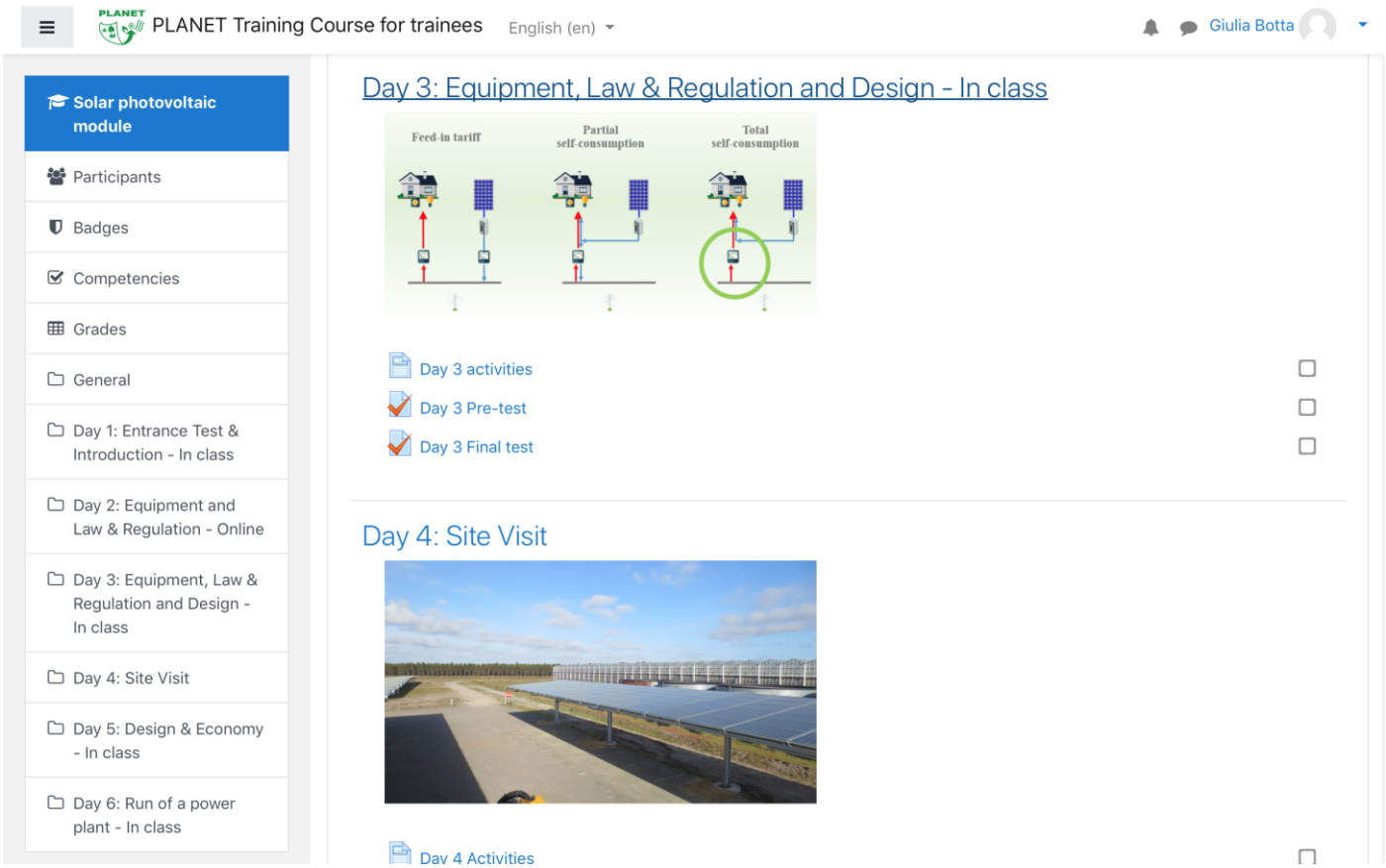

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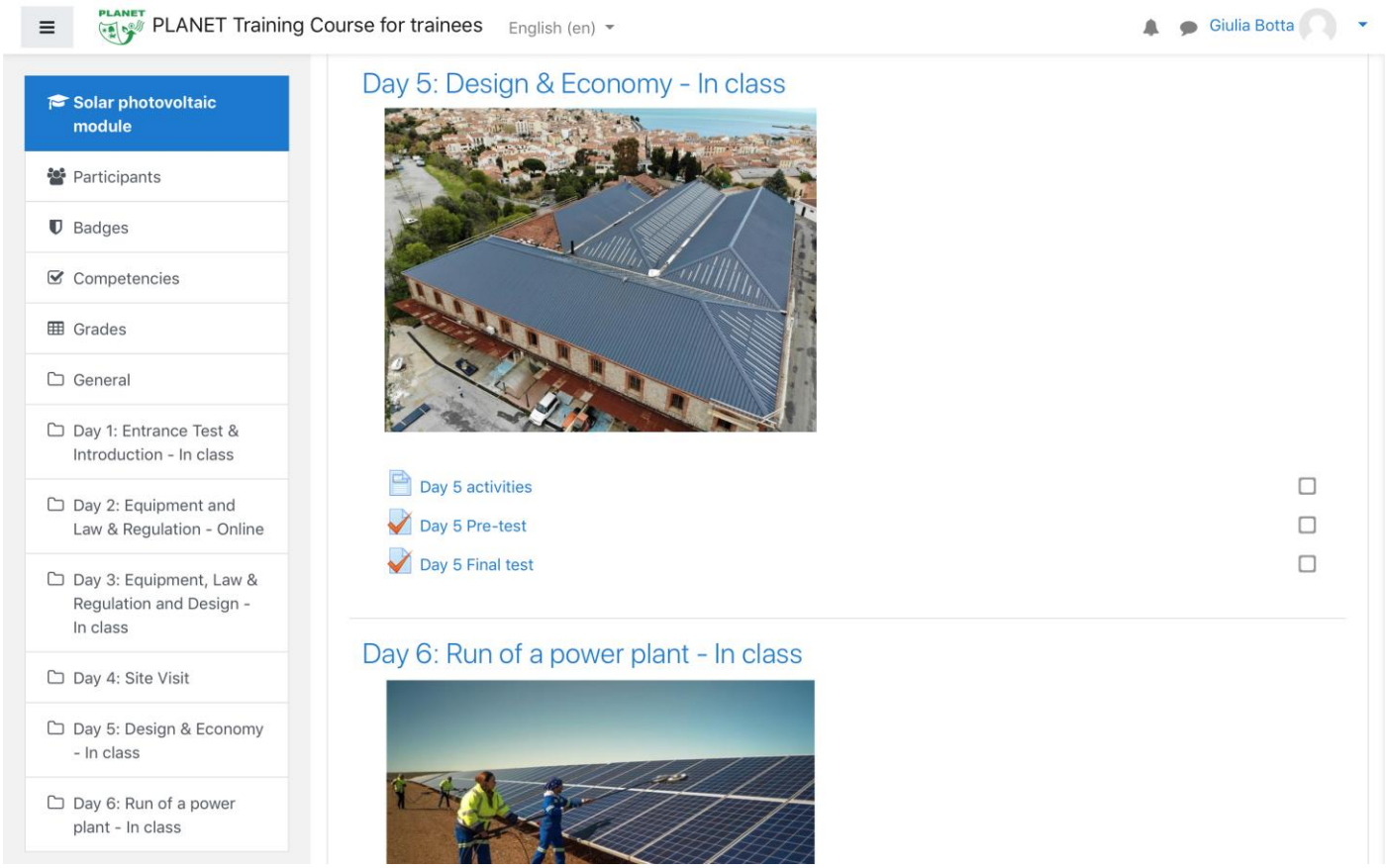

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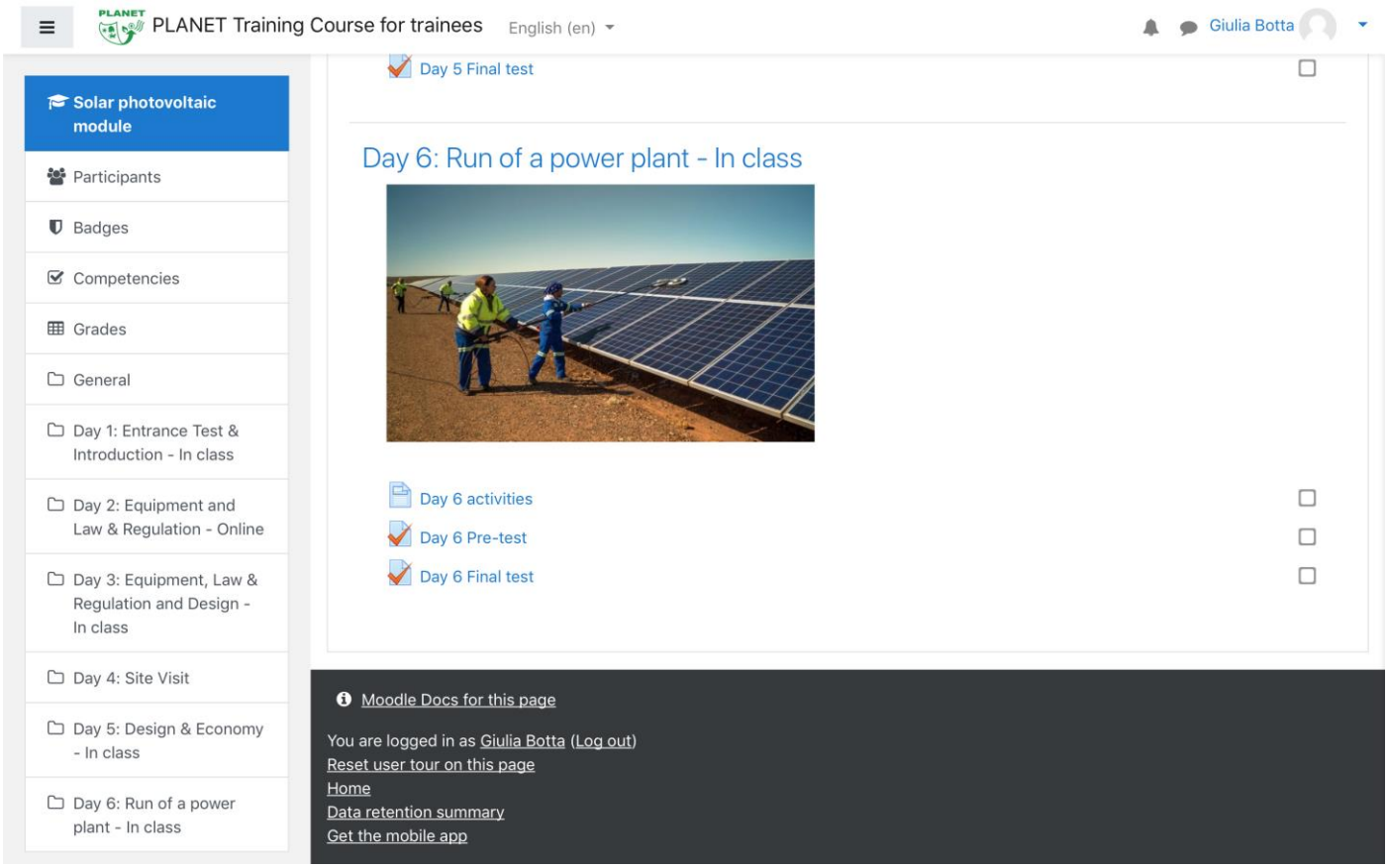

Figura 21

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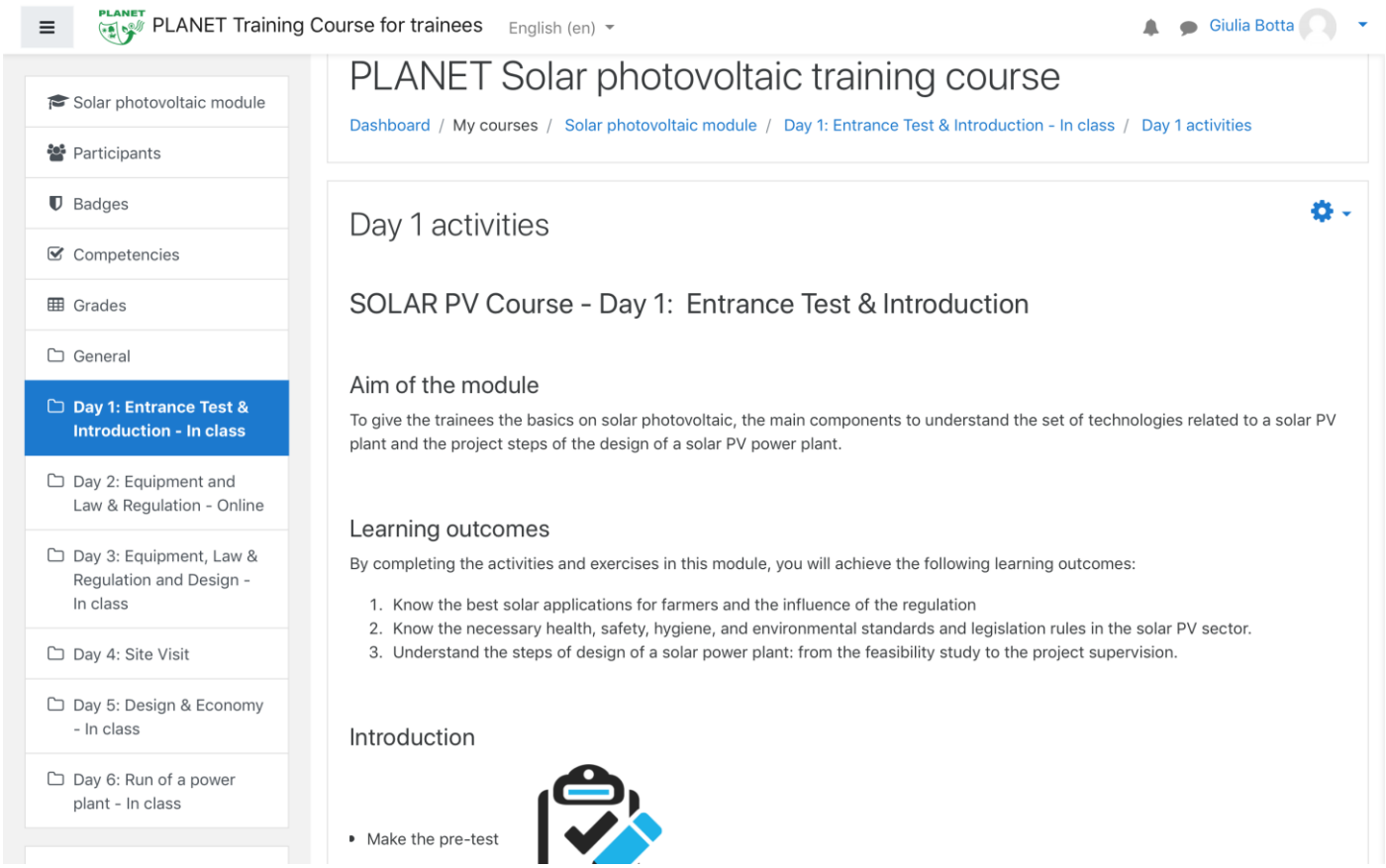

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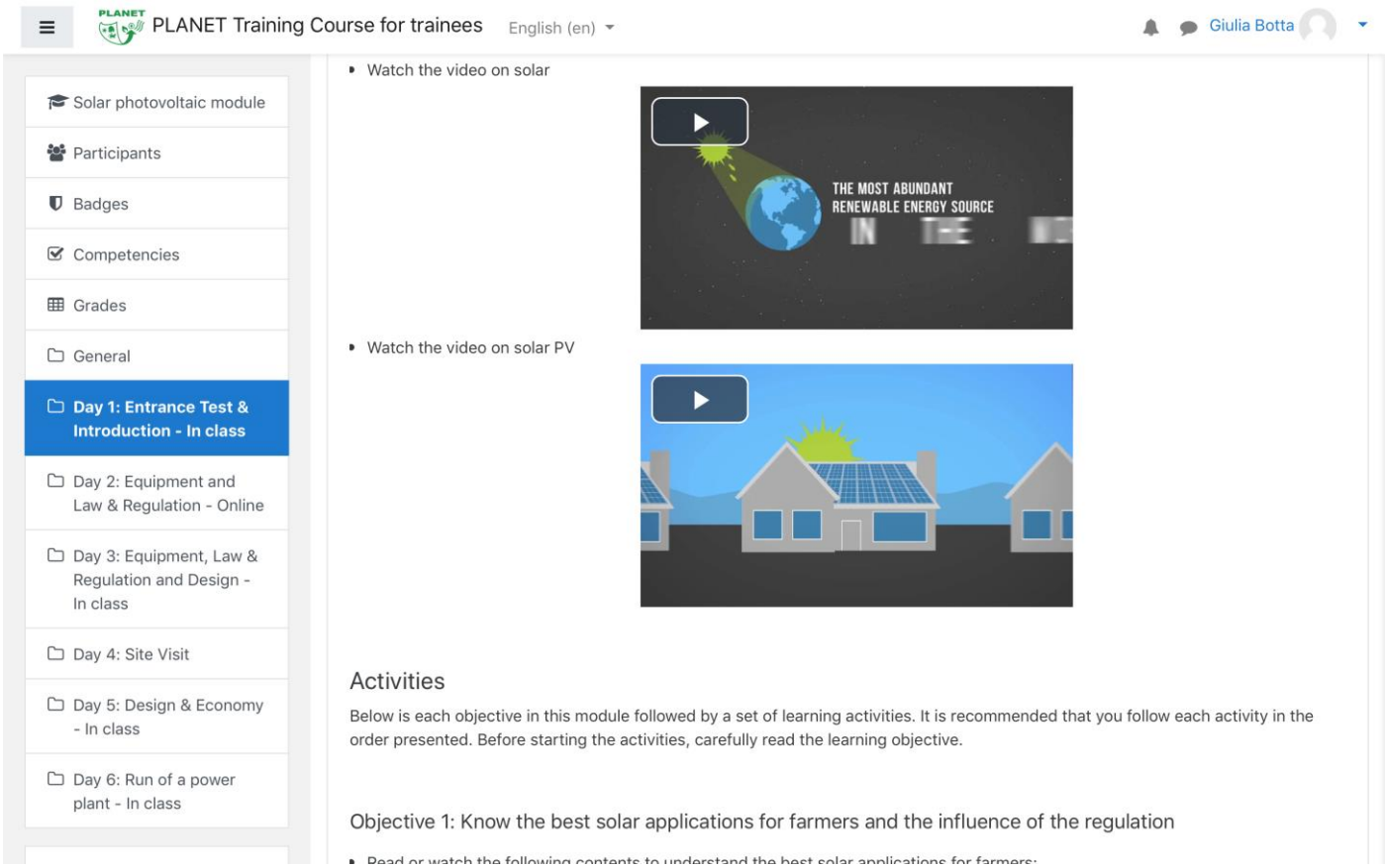

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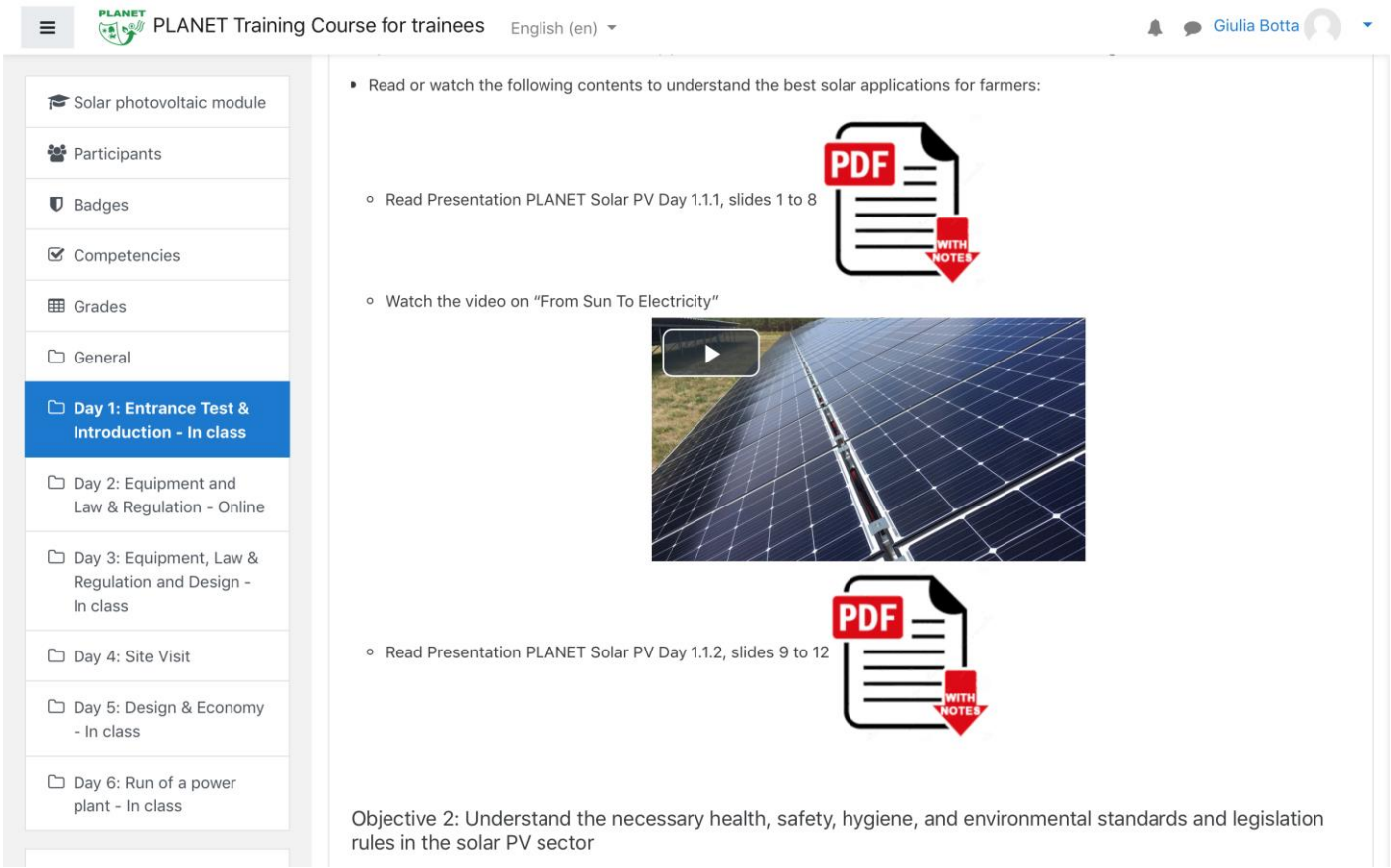

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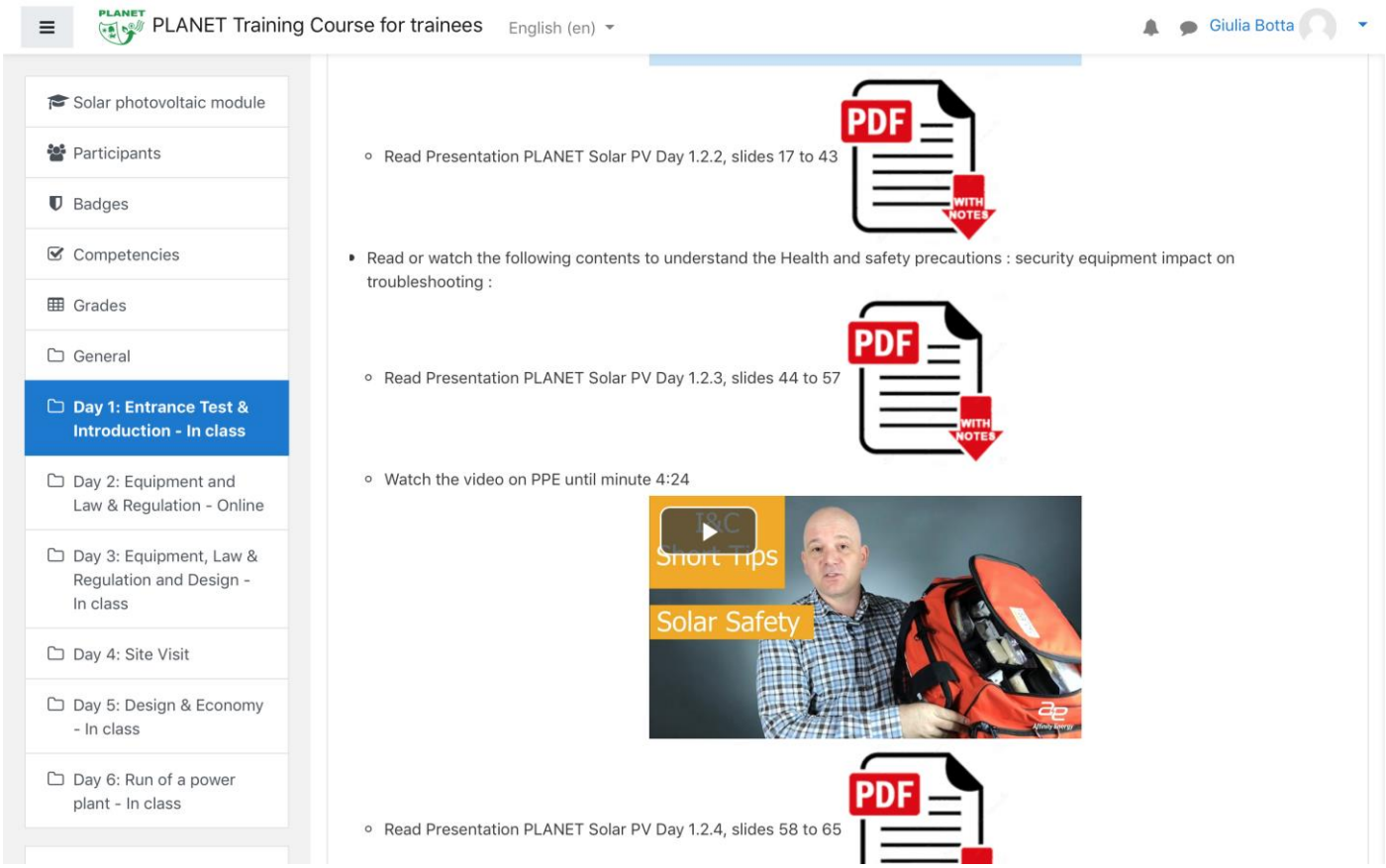

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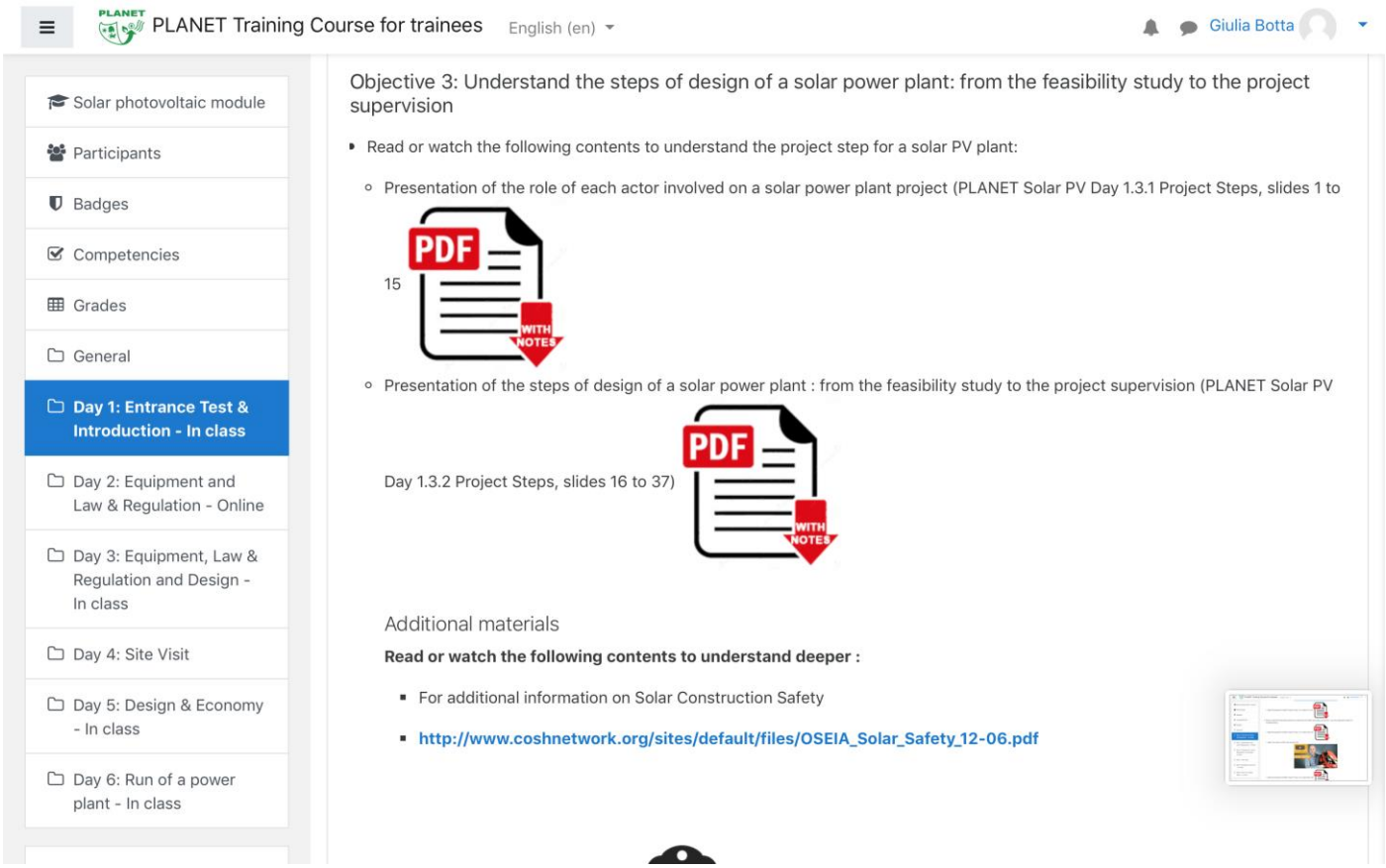

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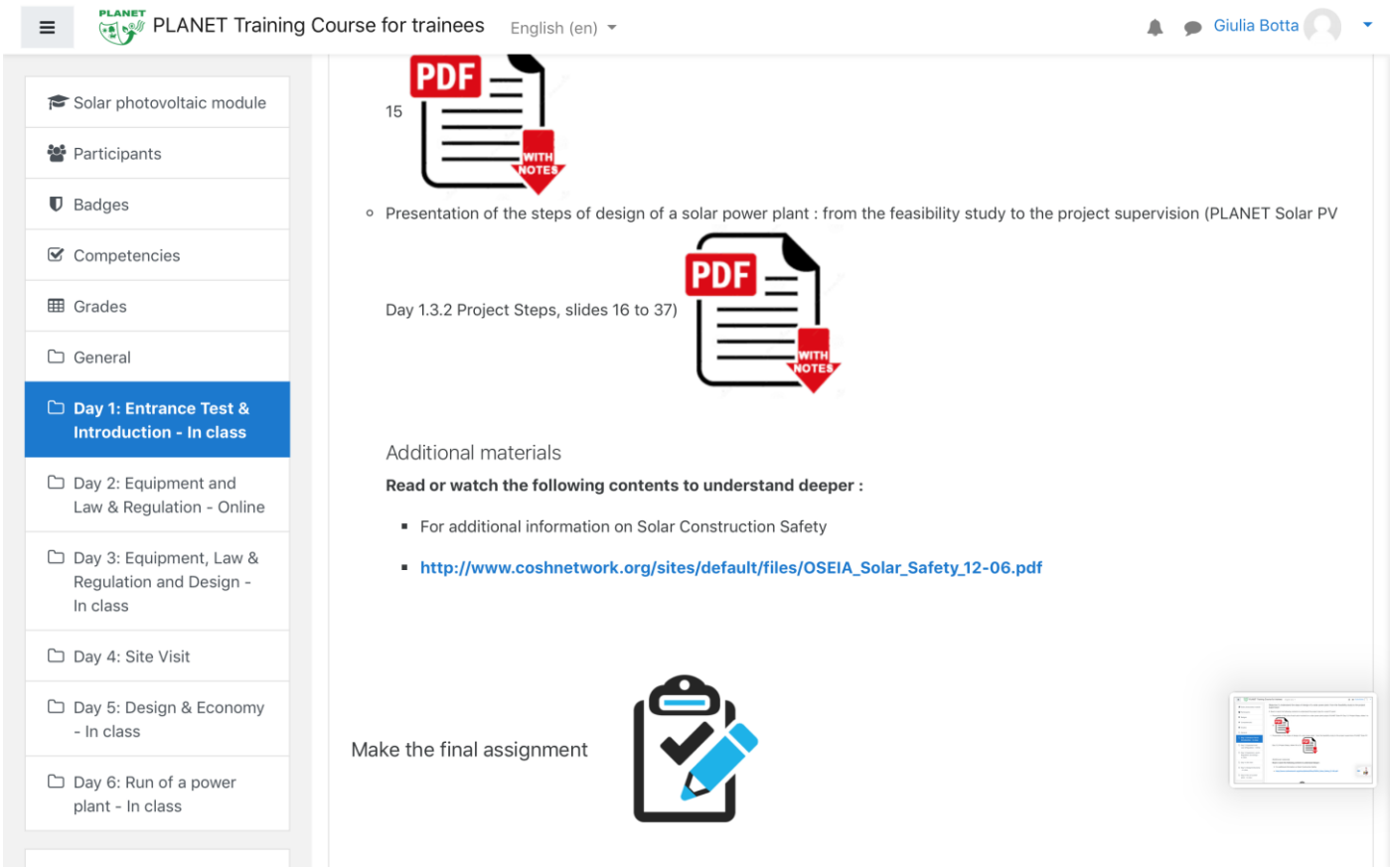

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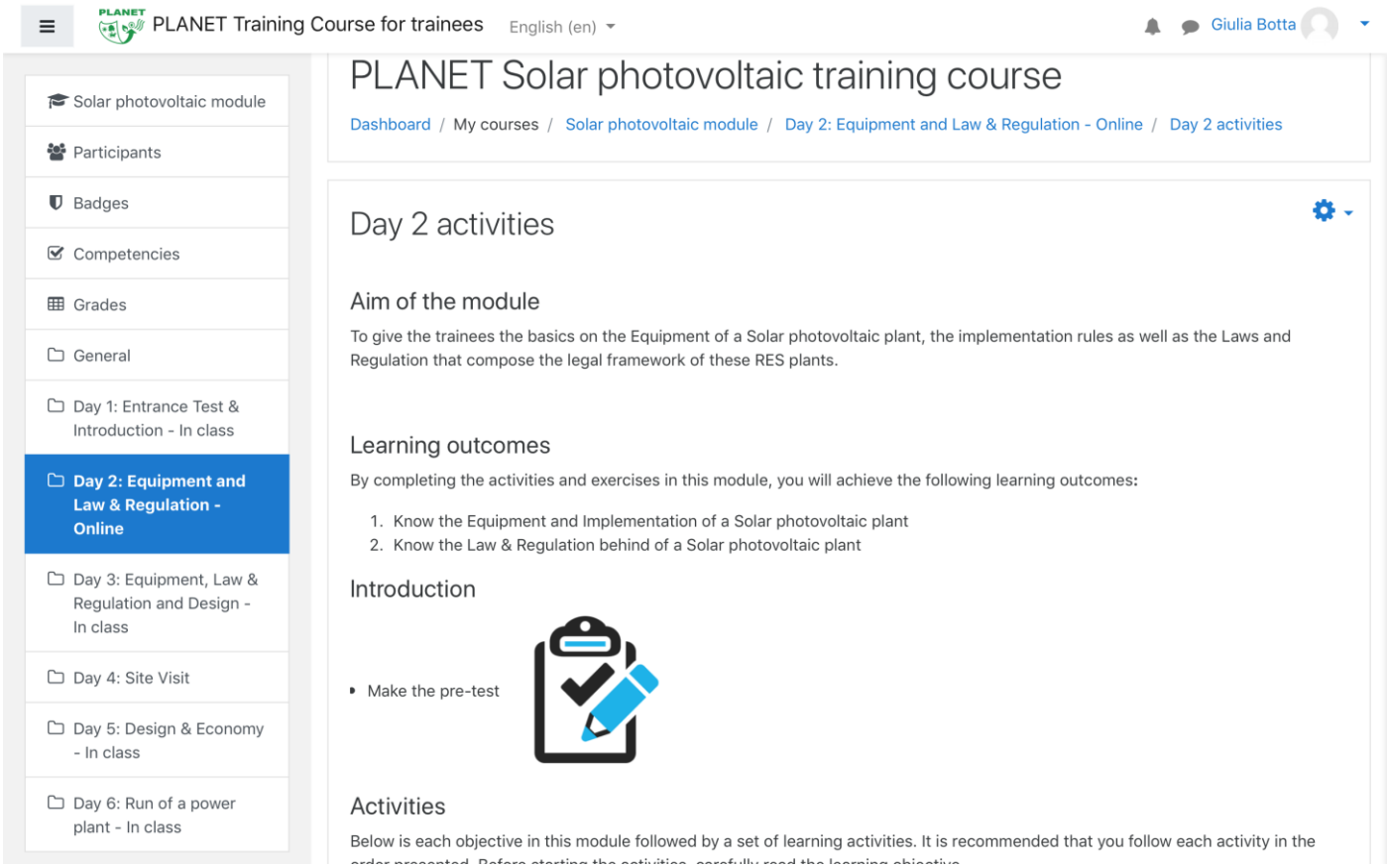

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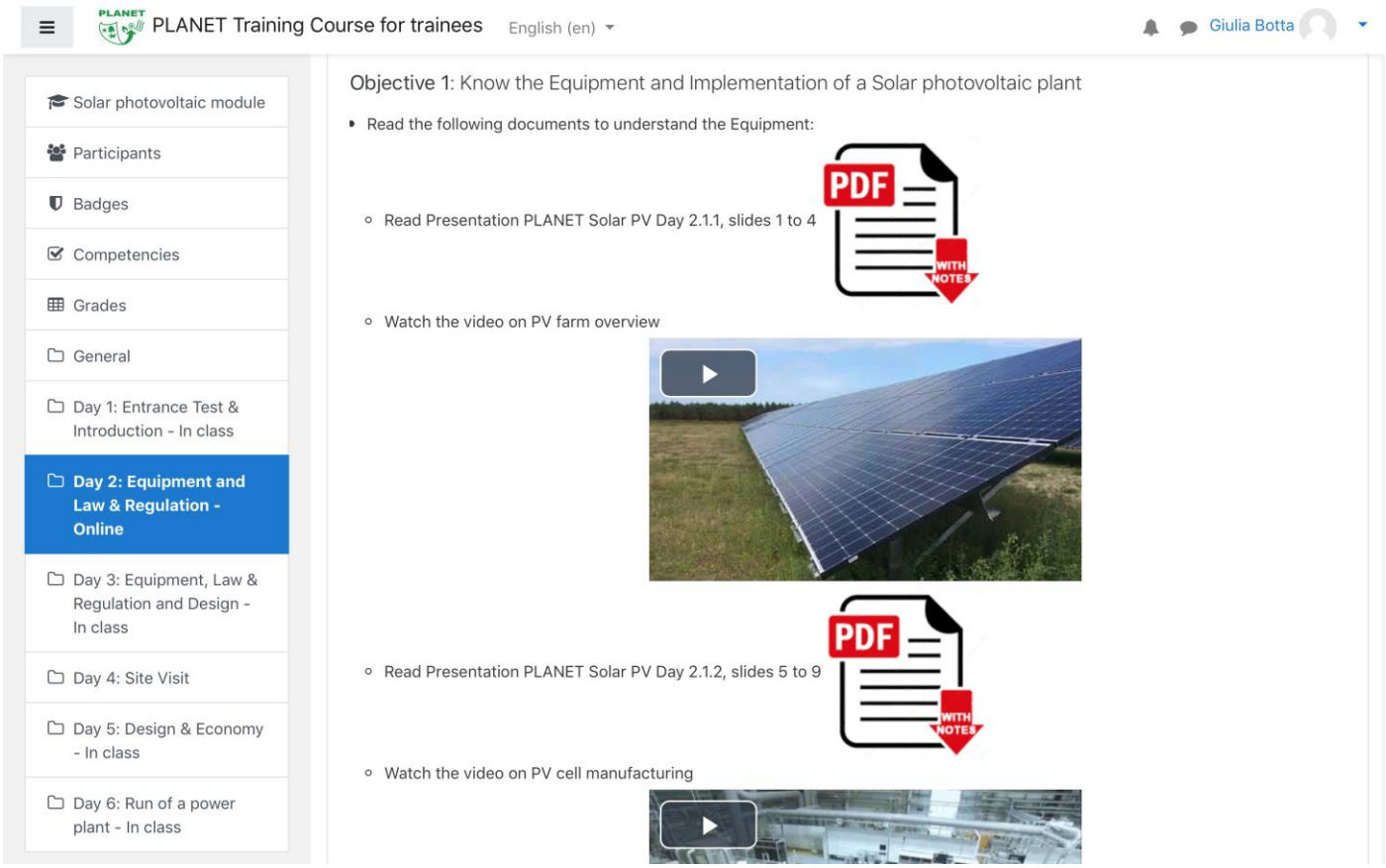

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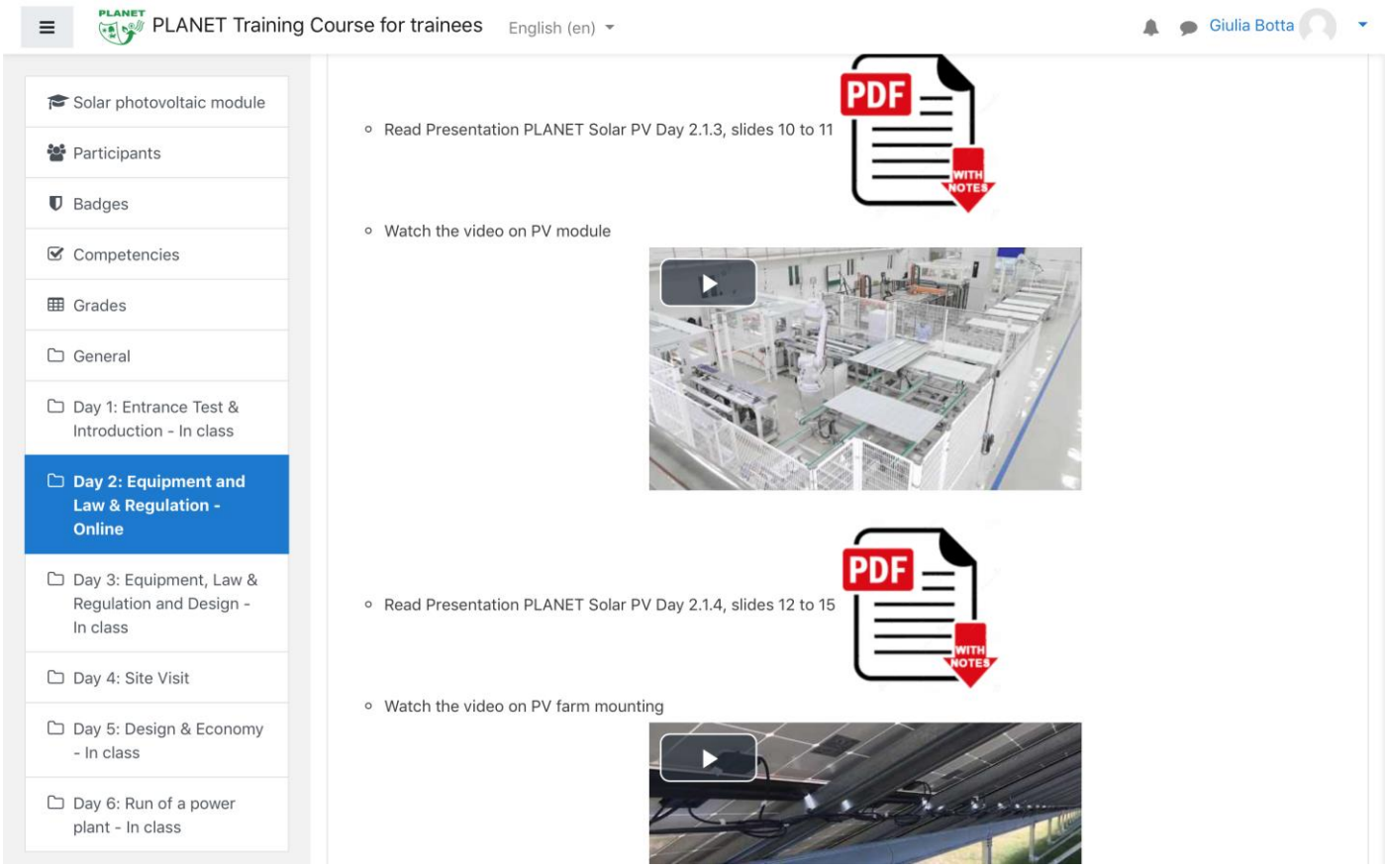

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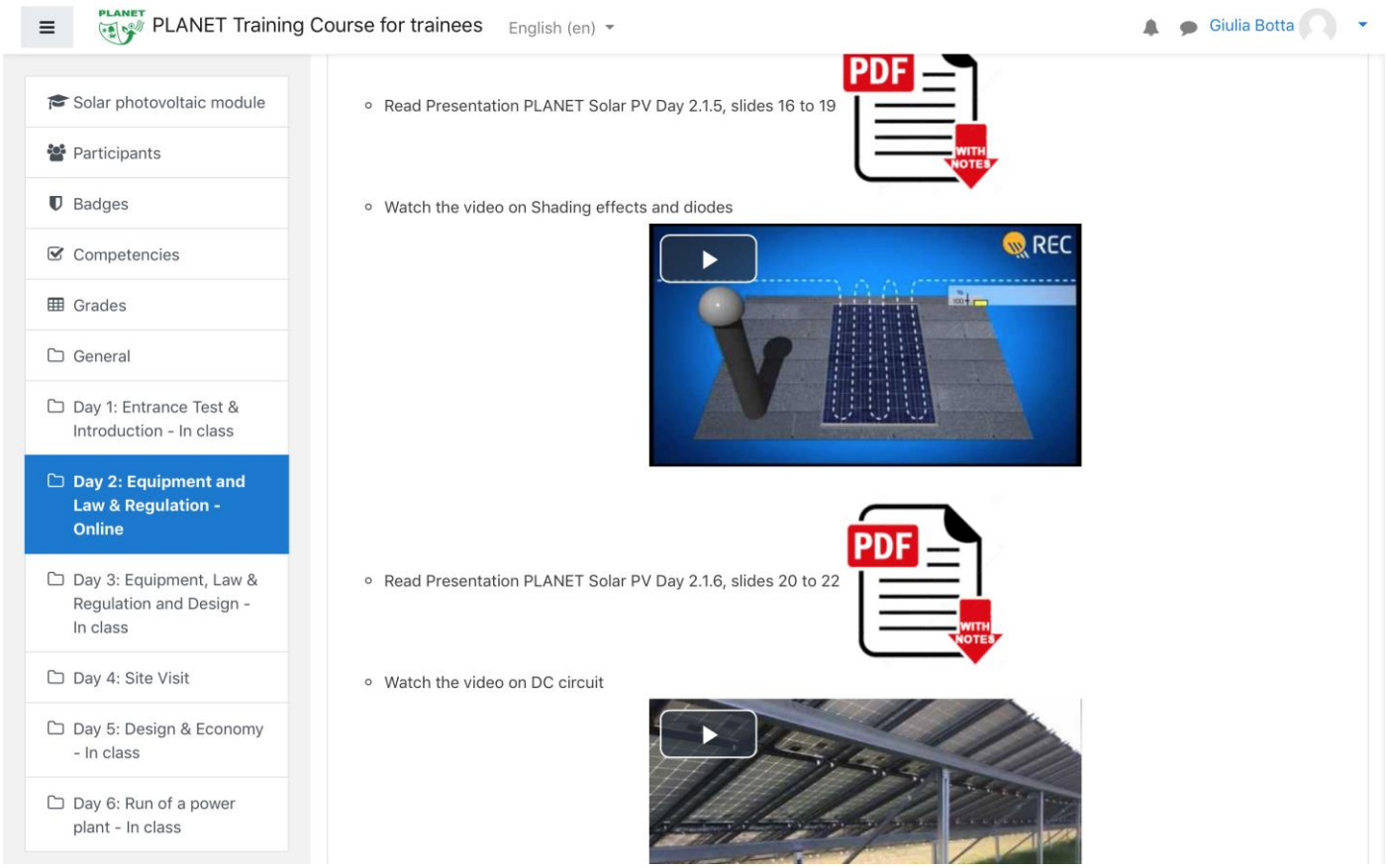

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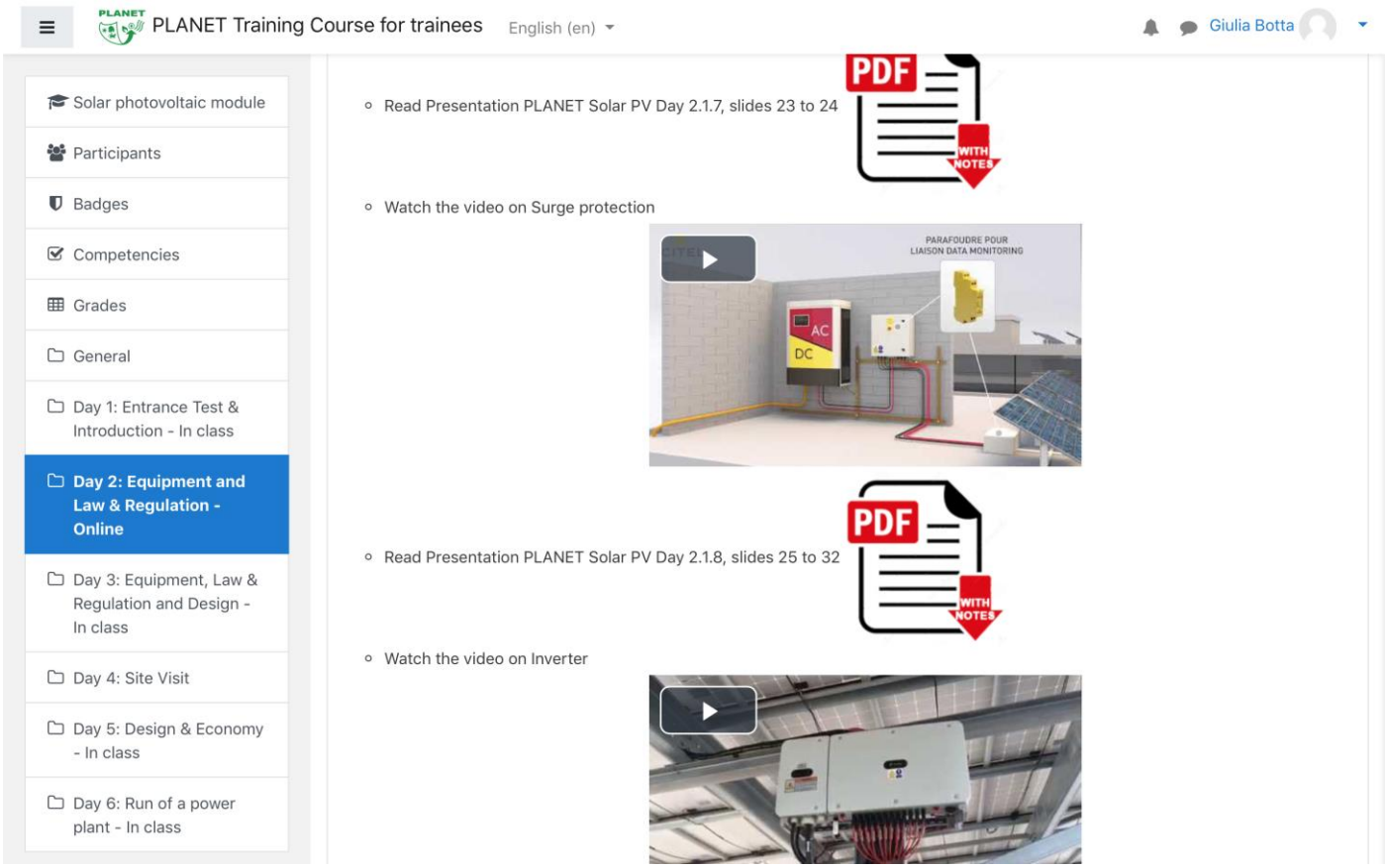

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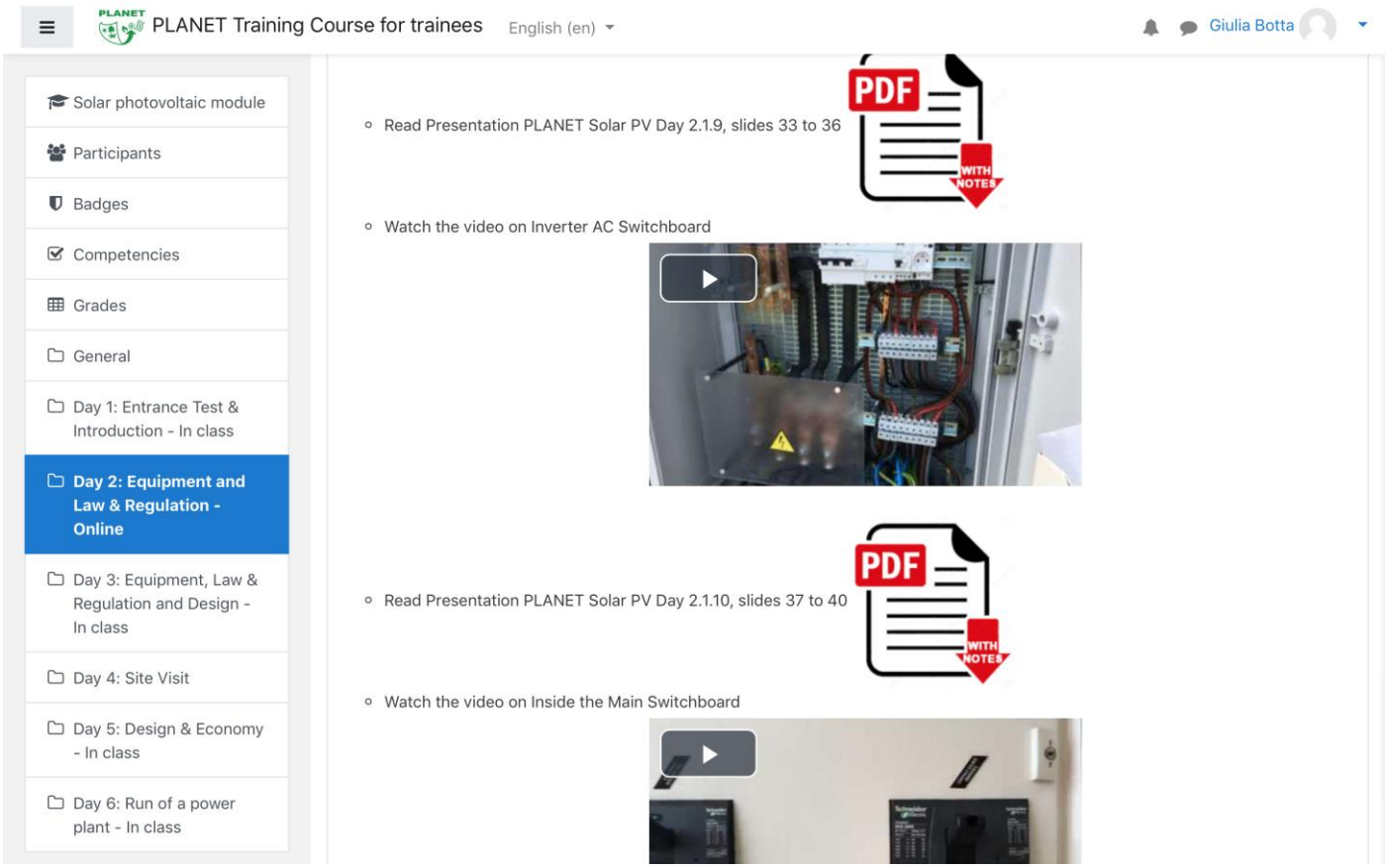

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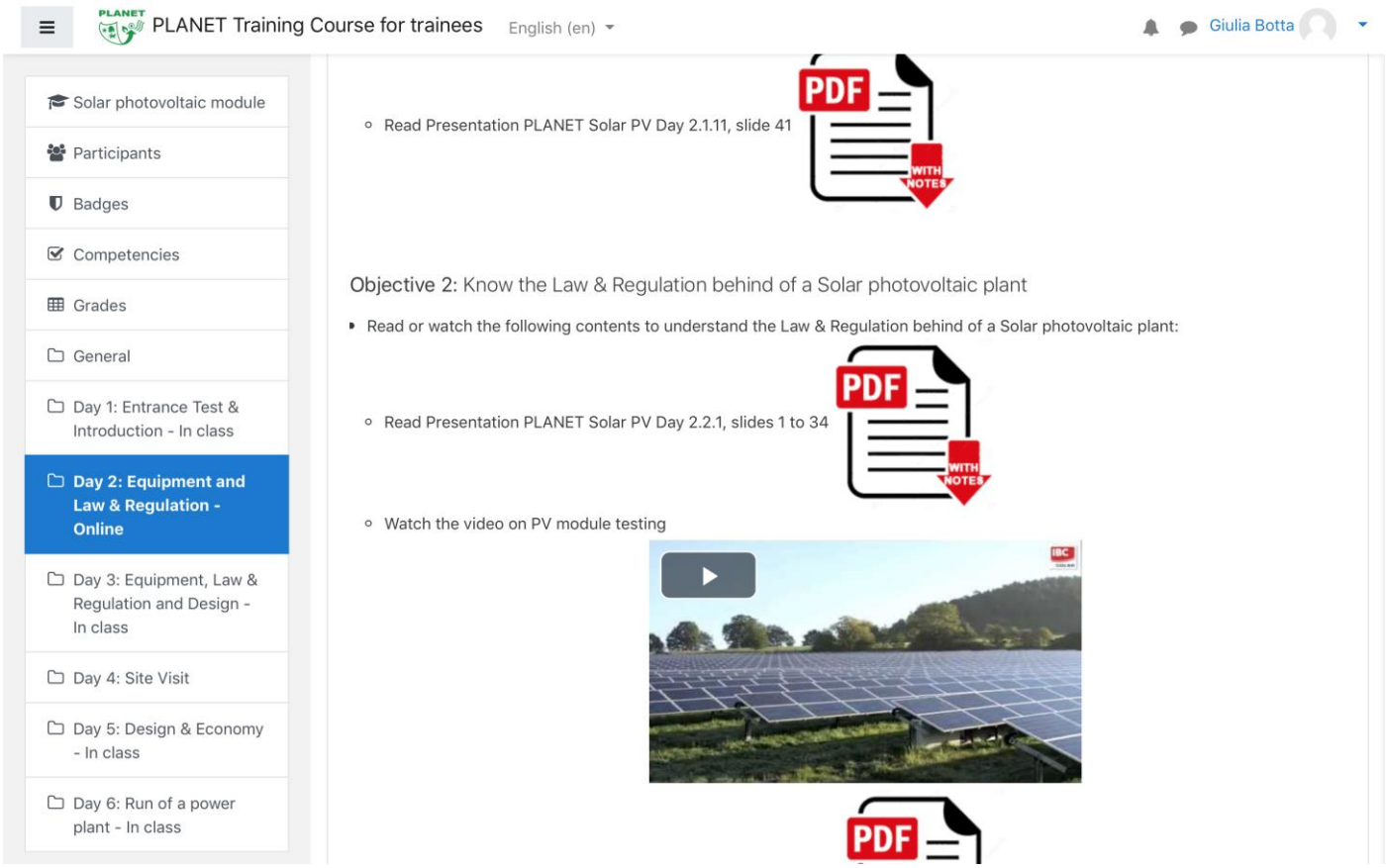

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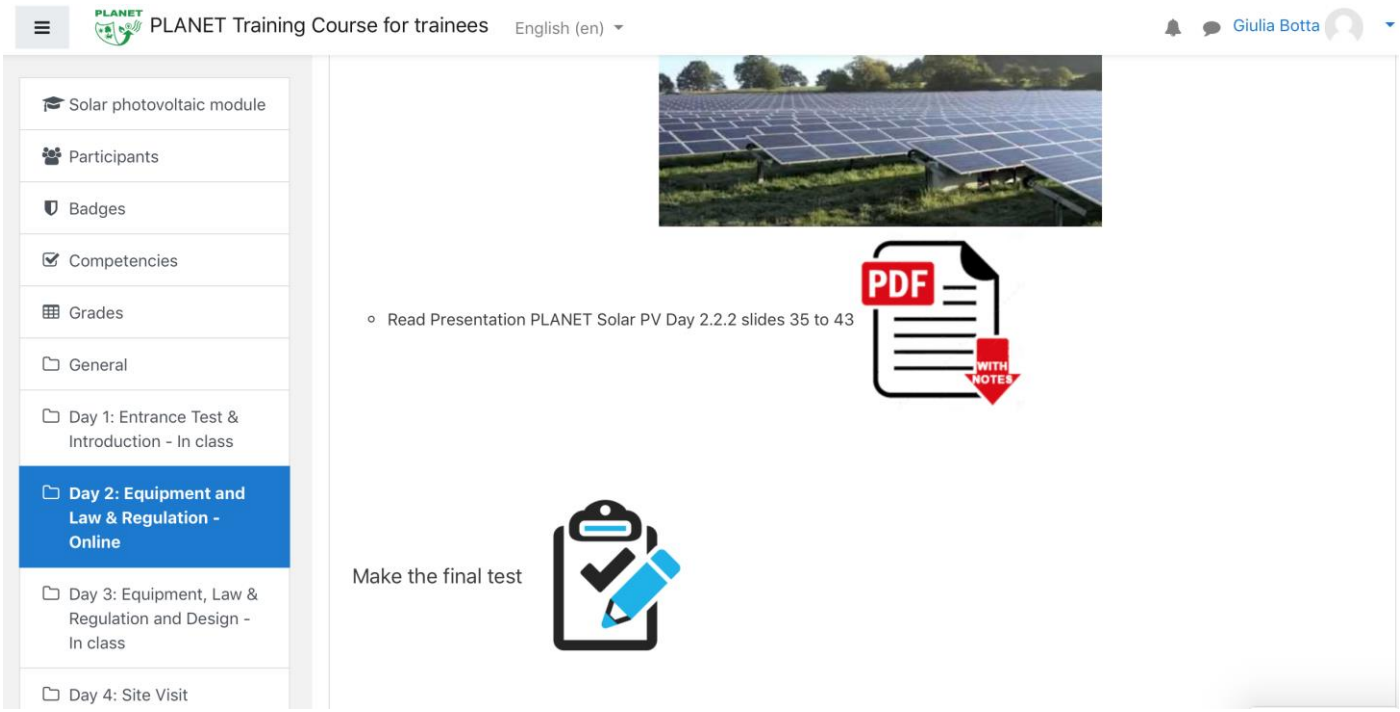

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PLANET – PLan for Agriculture reNewable Energy Training

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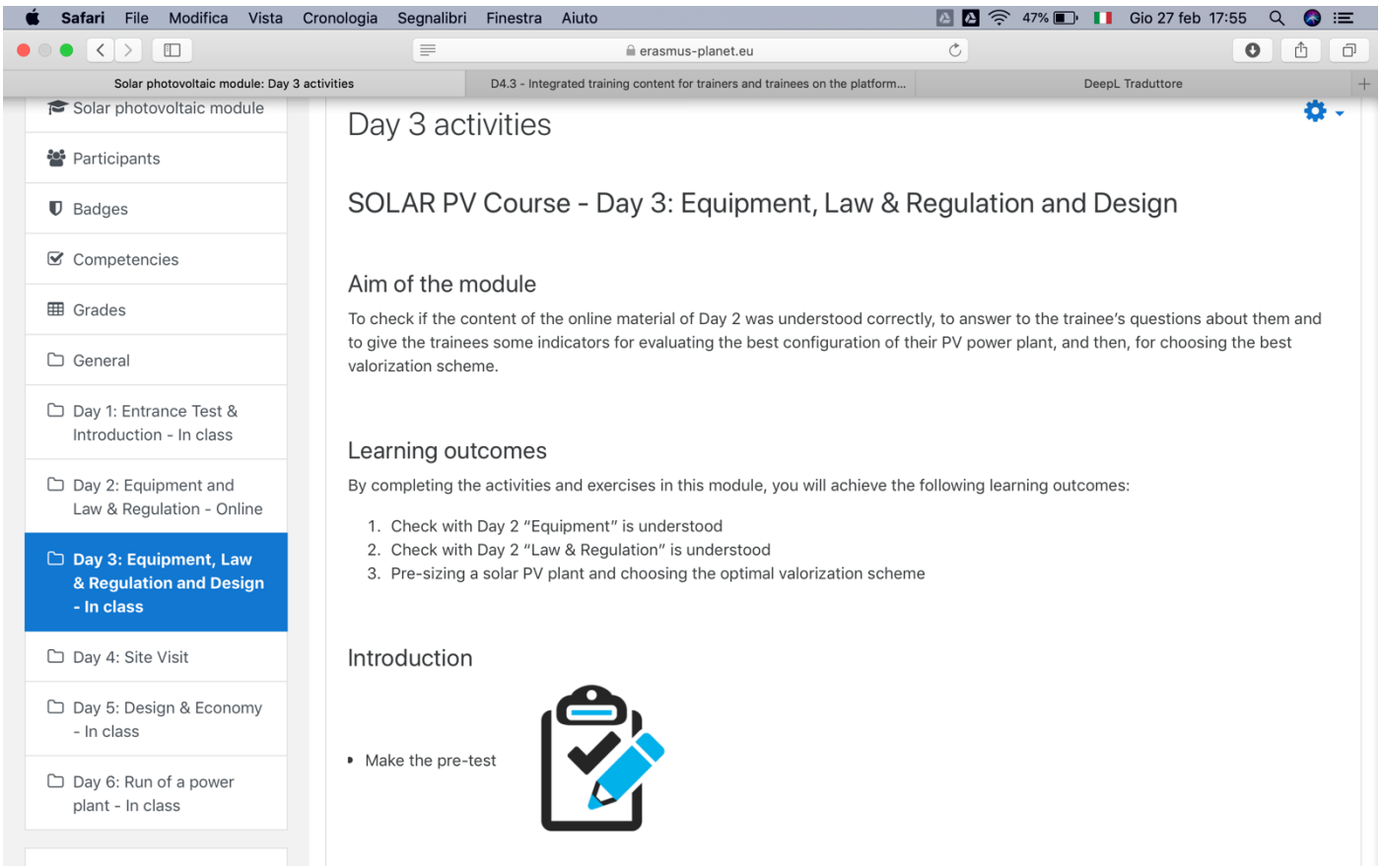

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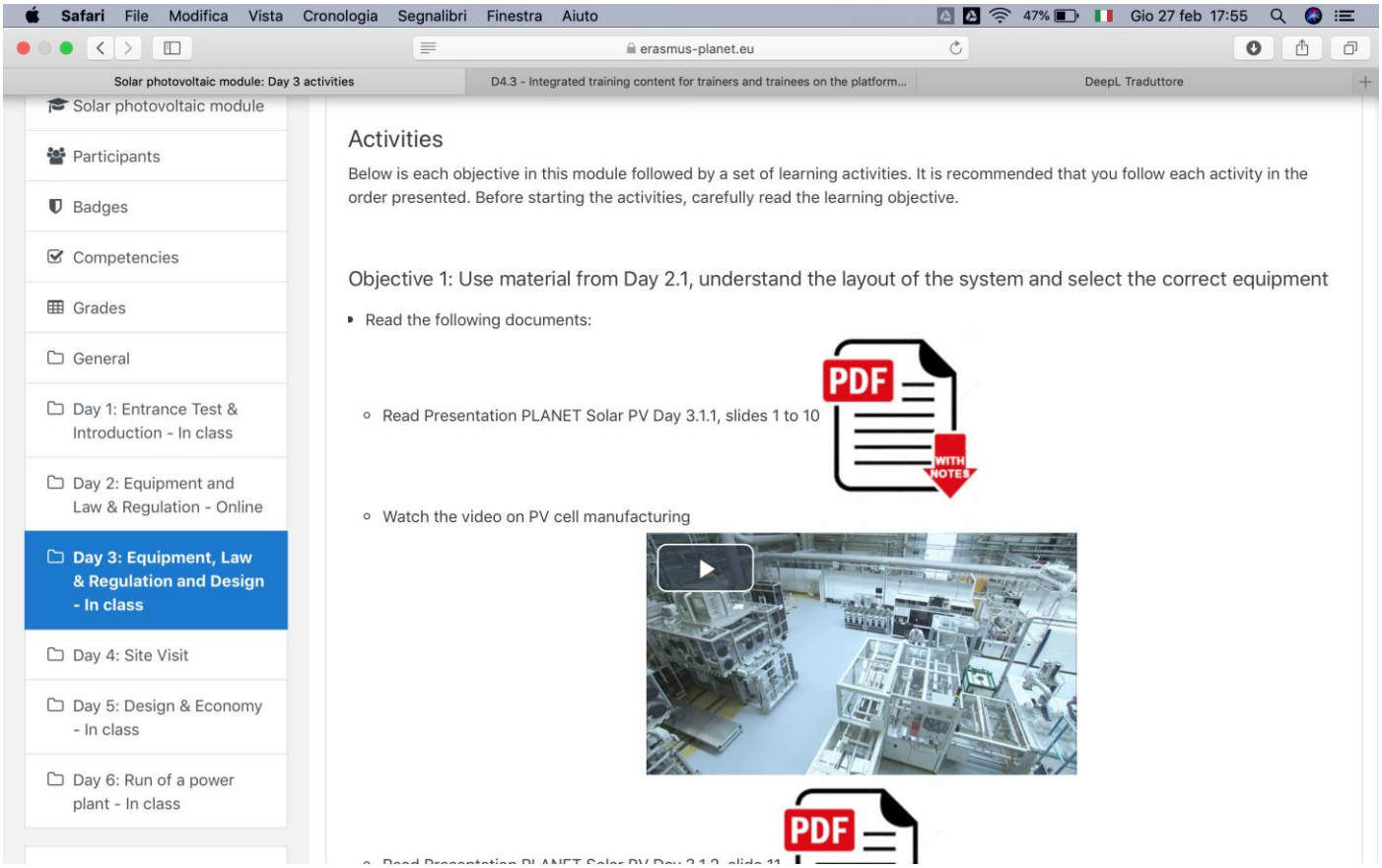

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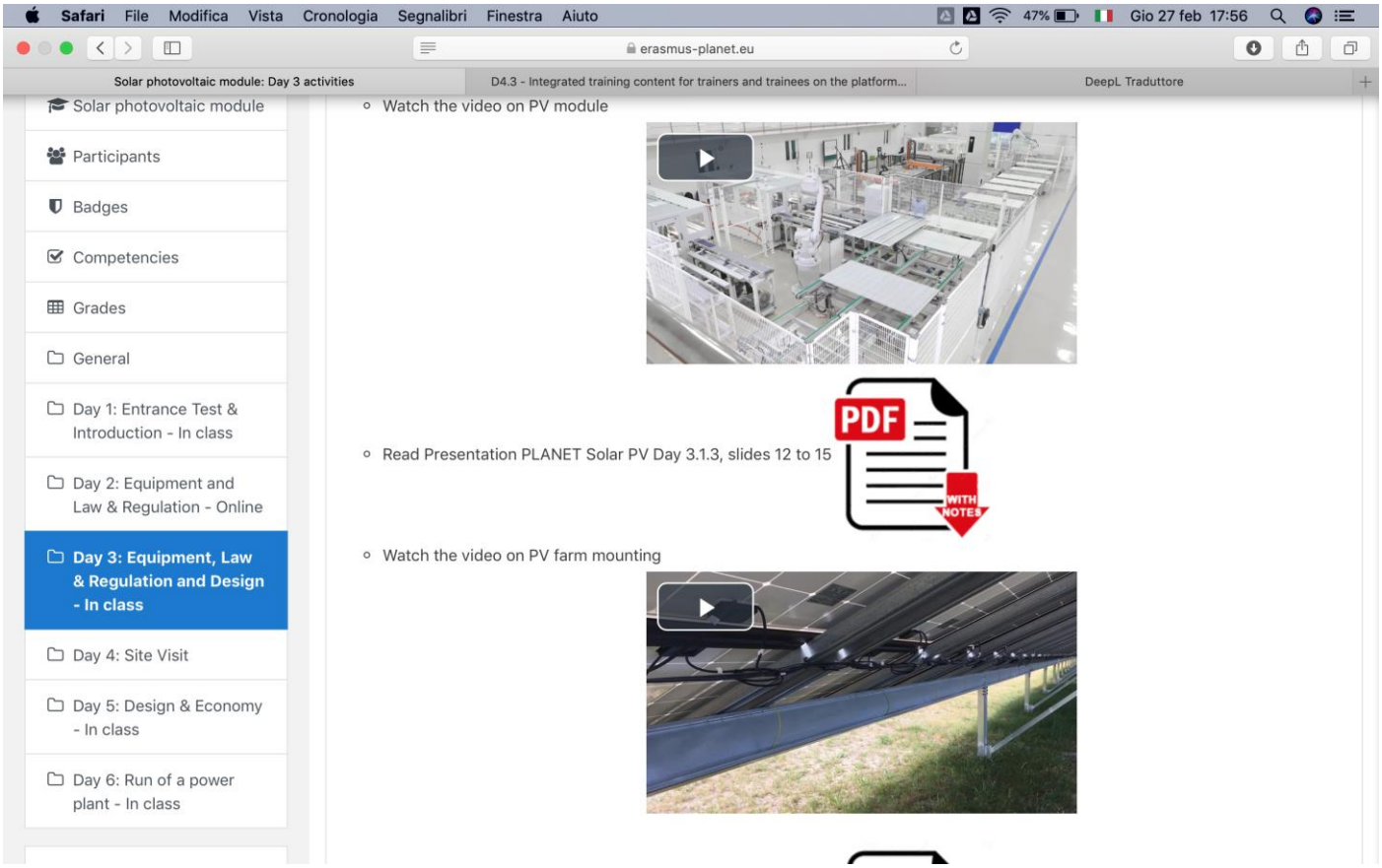

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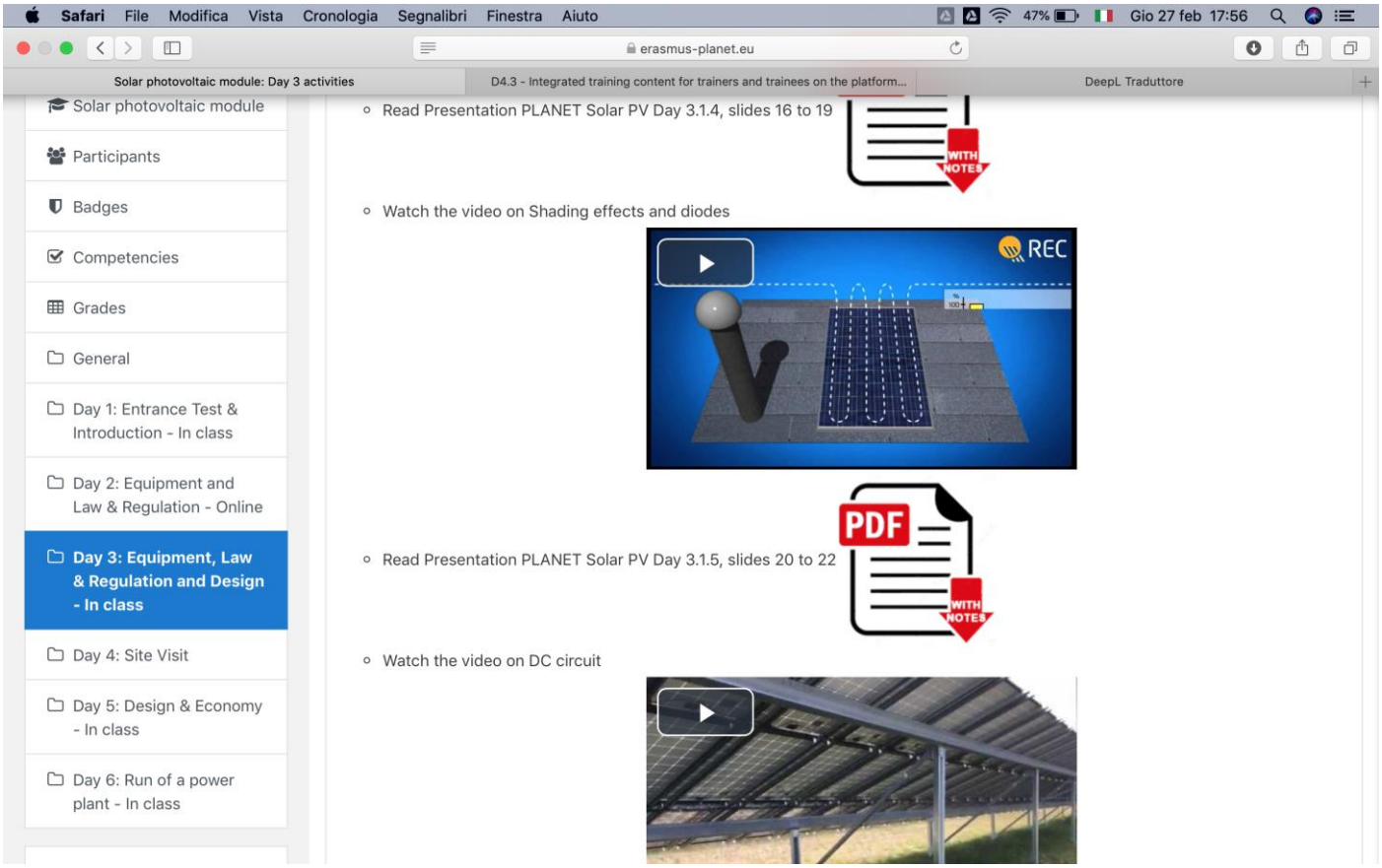
PLANET – PLan for Agriculture reNewable Energy Training



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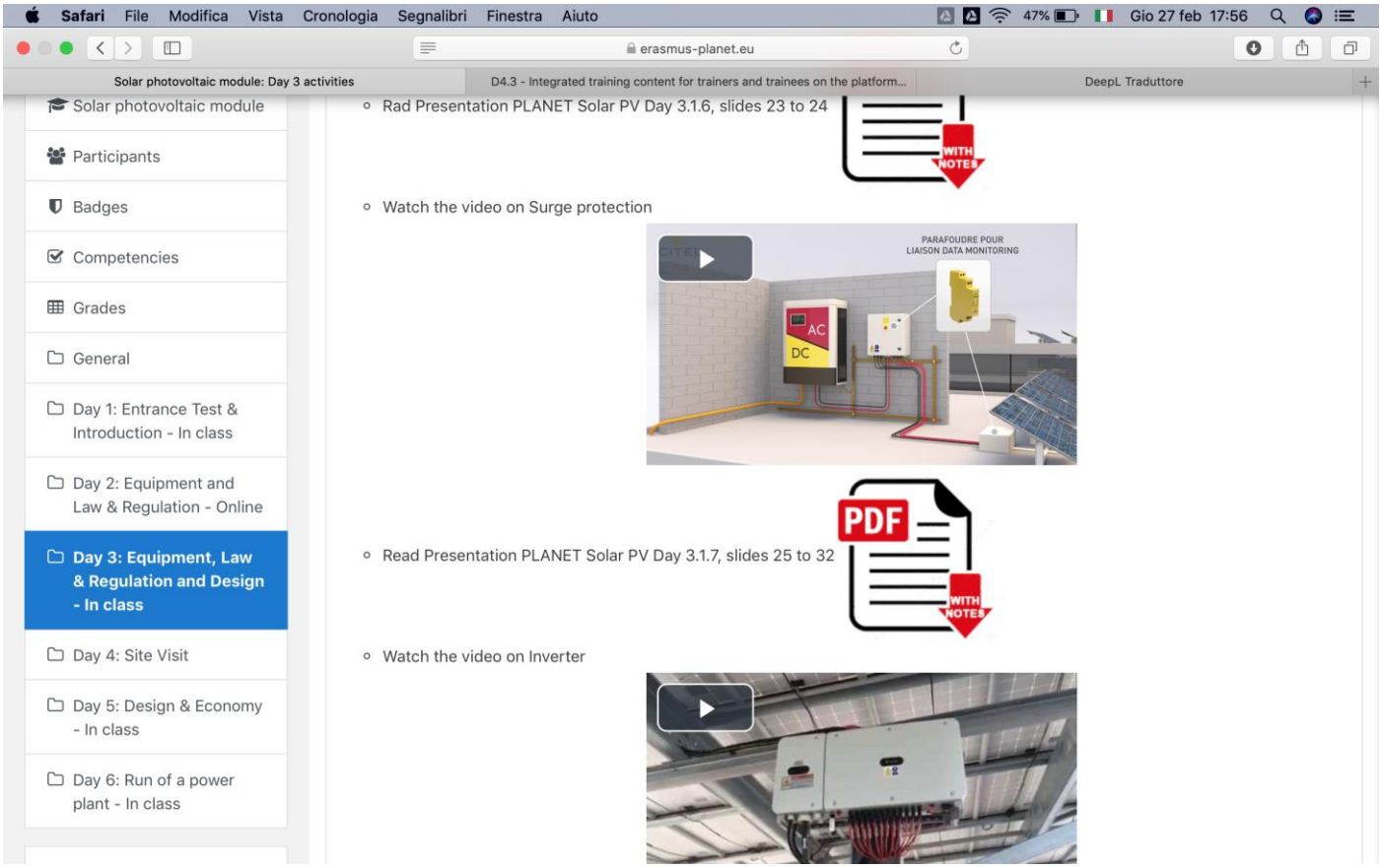
PLANET – PLan for Agriculture reNewable Energy Training



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PLANET – PLan for Agriculture reNewable Energy Training

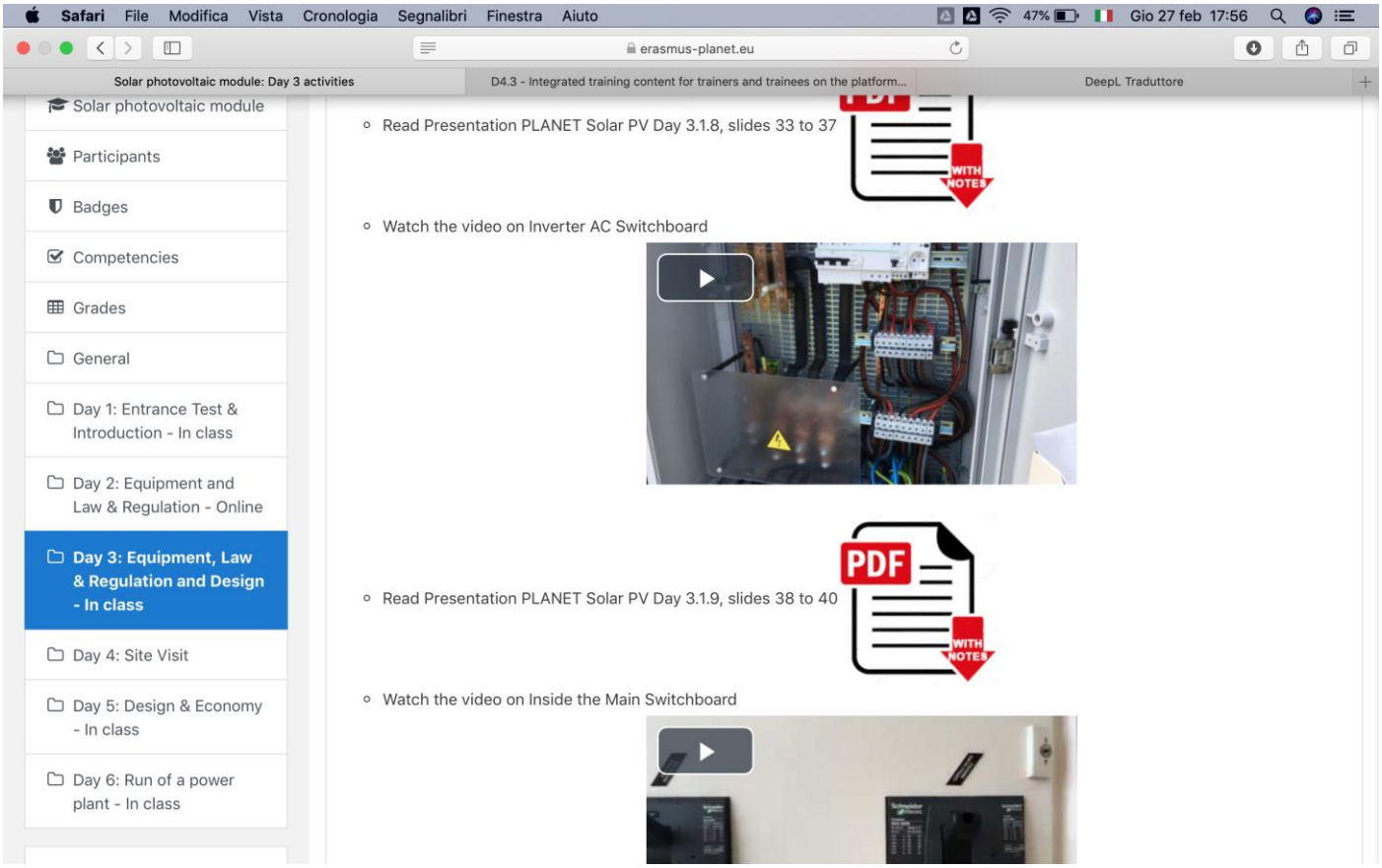

Figura 41

PLANET – PLan for Agriculture reNewable Energy Training

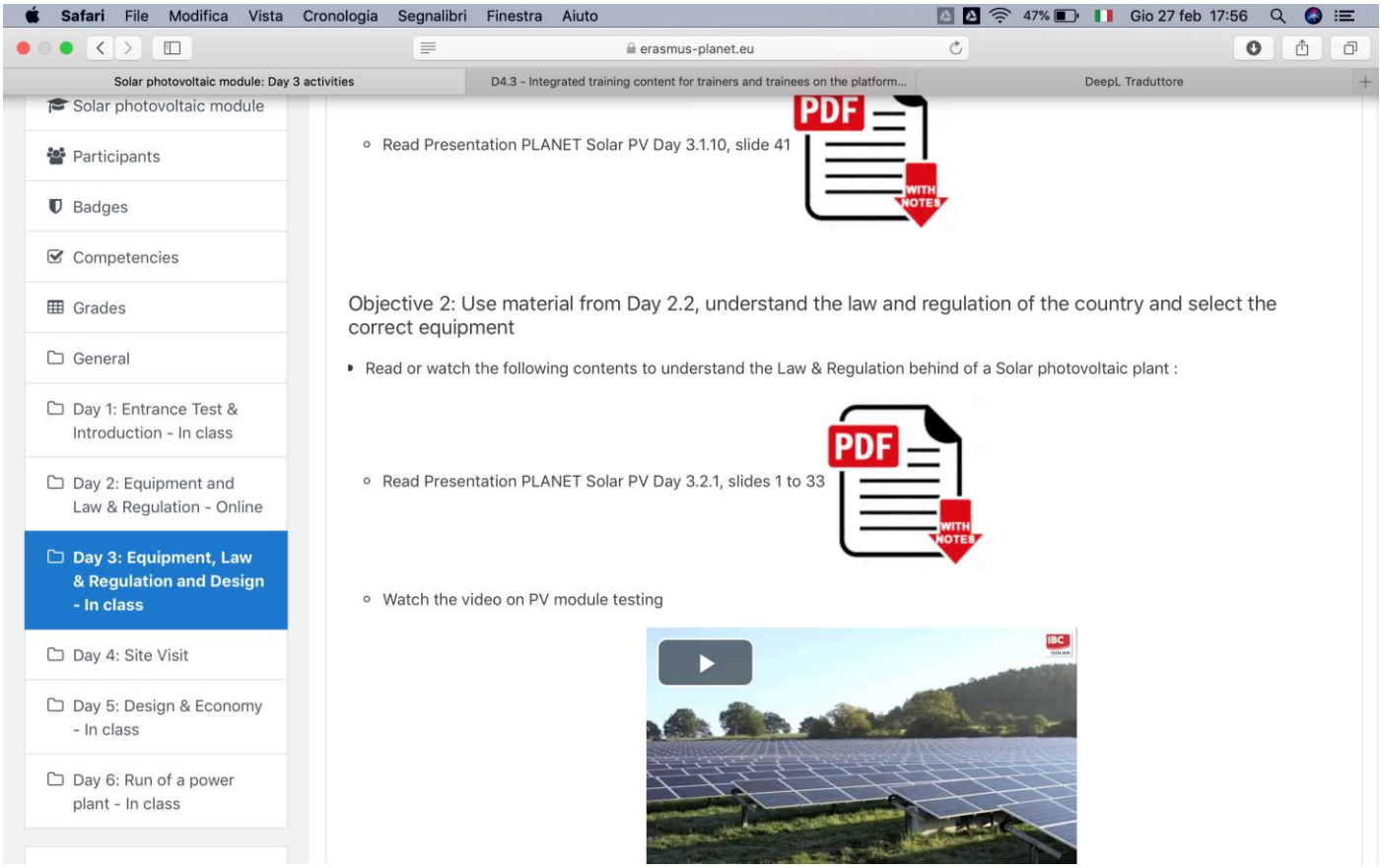

Figura 42

PLANET – PLan for Agriculture reNewable Energy Training

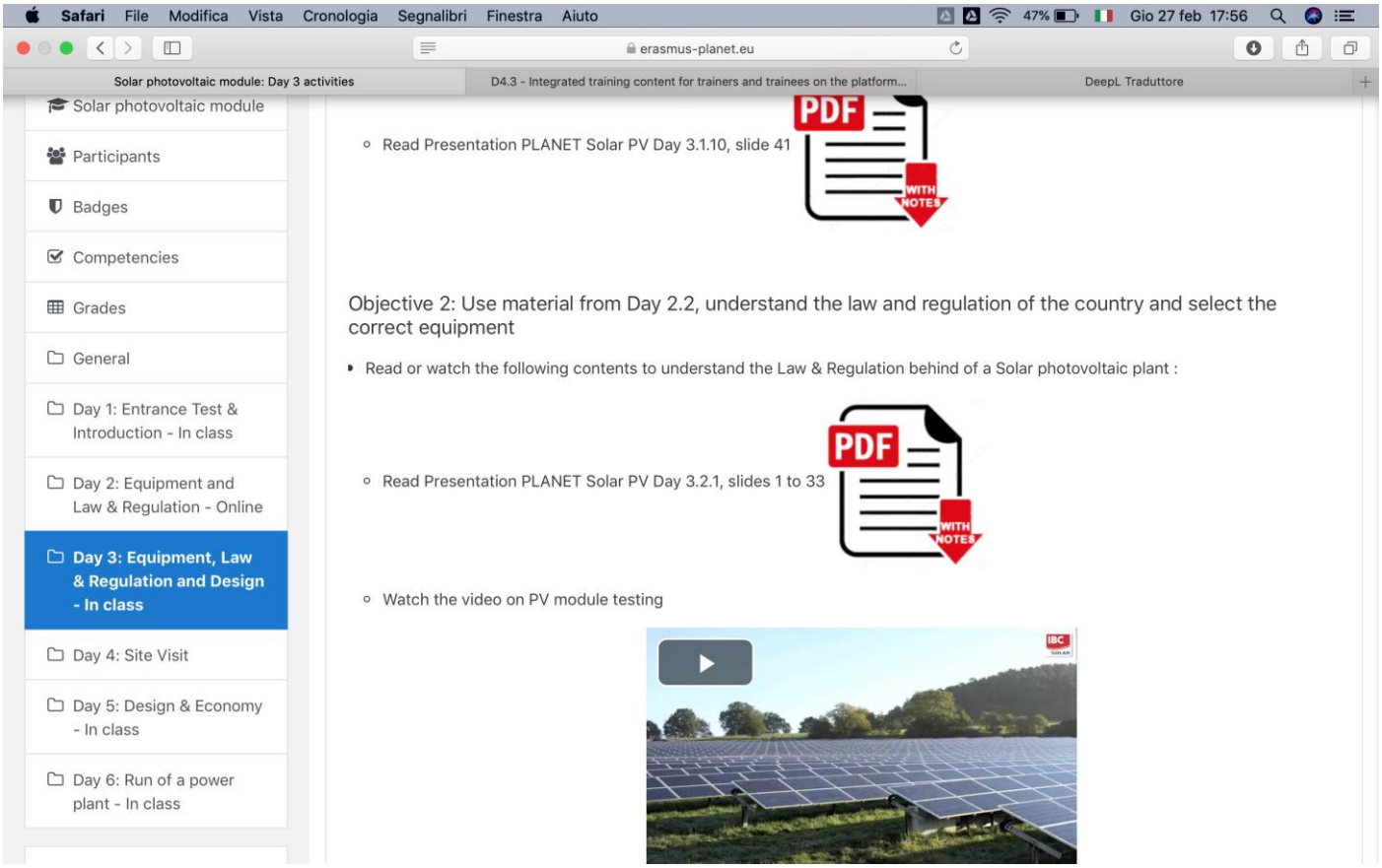

Figura 43

PLANET – PLan for Agriculture reNewable Energy Training

FOUR:

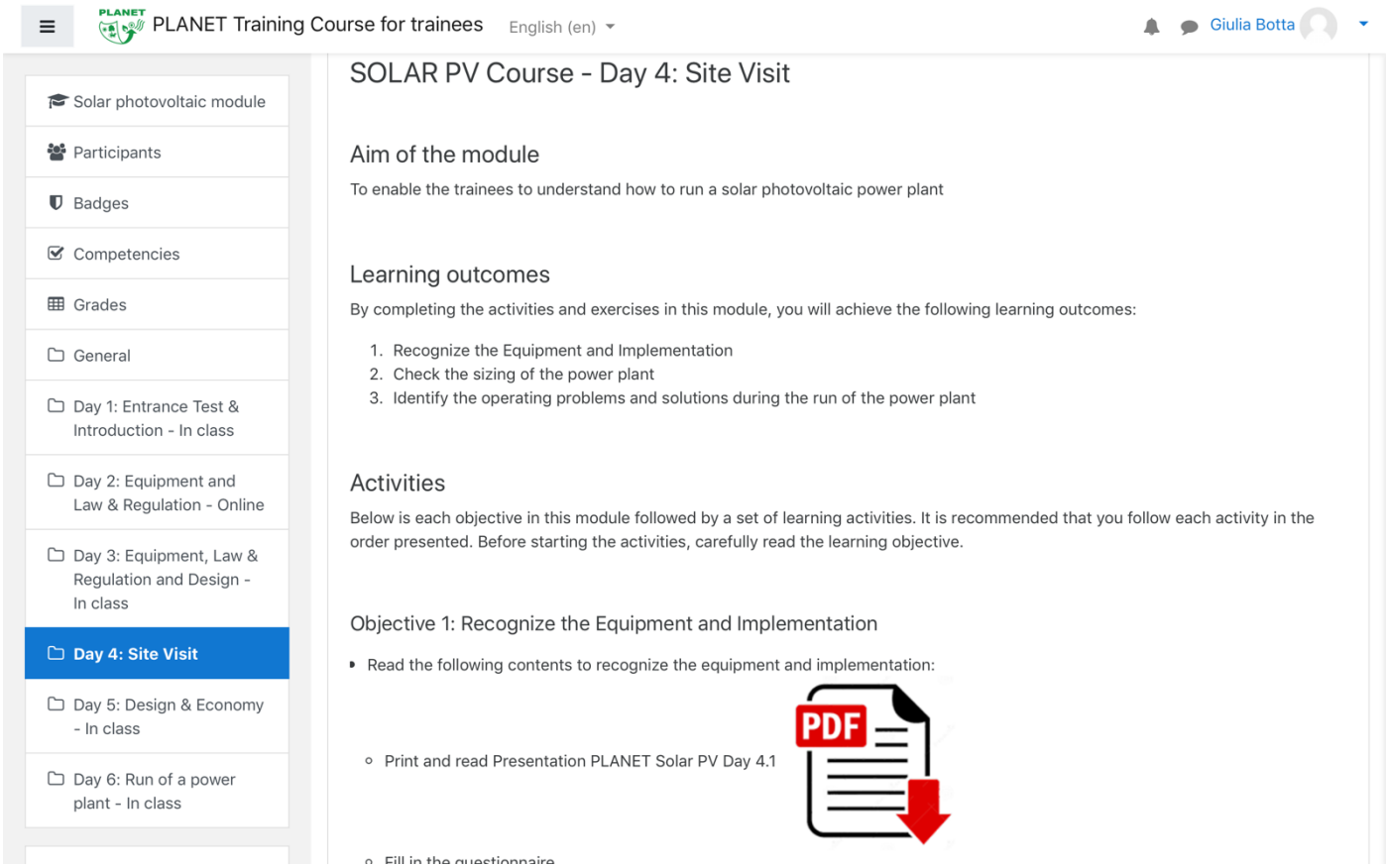

Figura 44

PLANET – PLan for Agriculture reNewable Energy Training

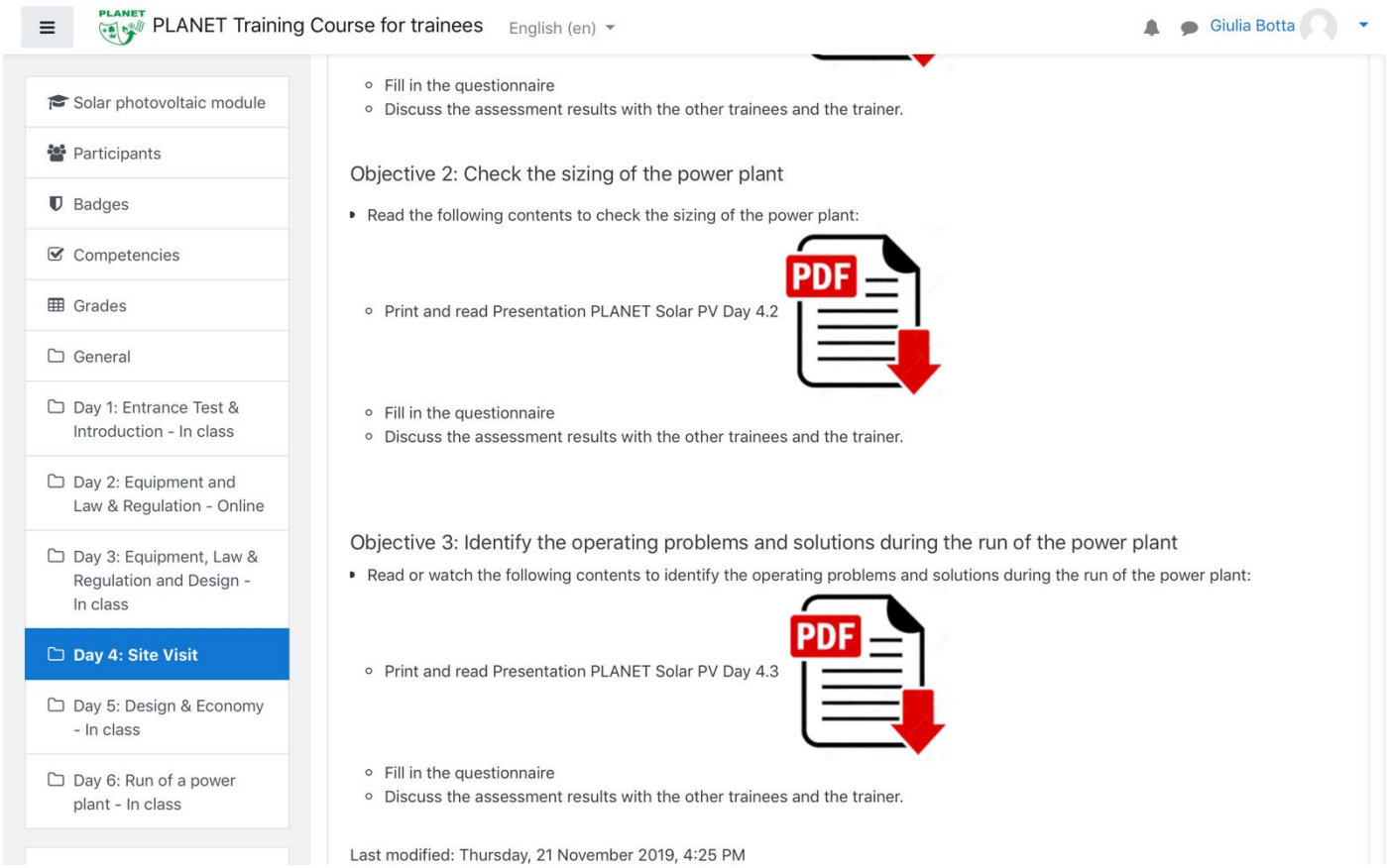

Figura 45

PLANET – PLan for Agriculture reNewable Energy Training

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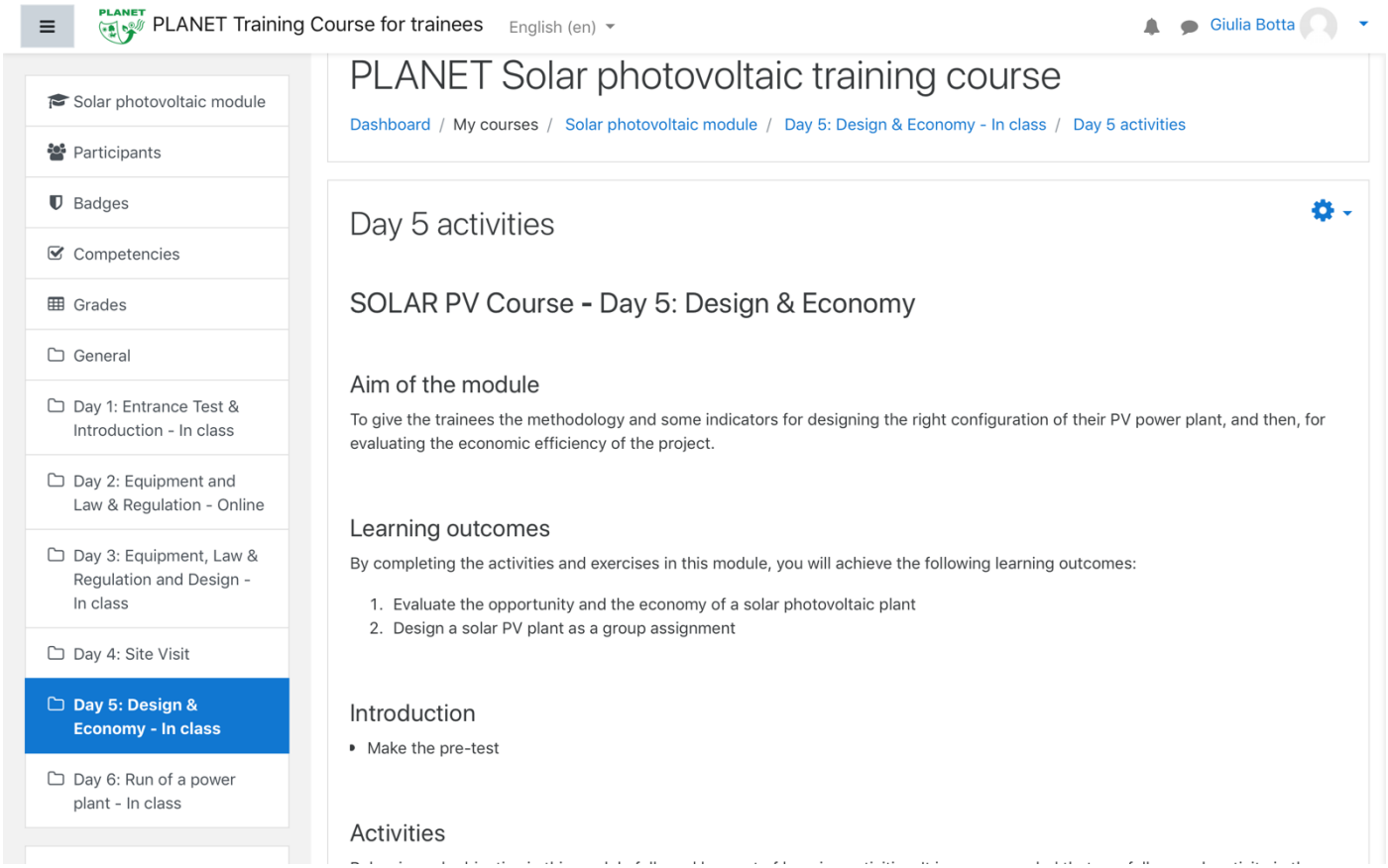
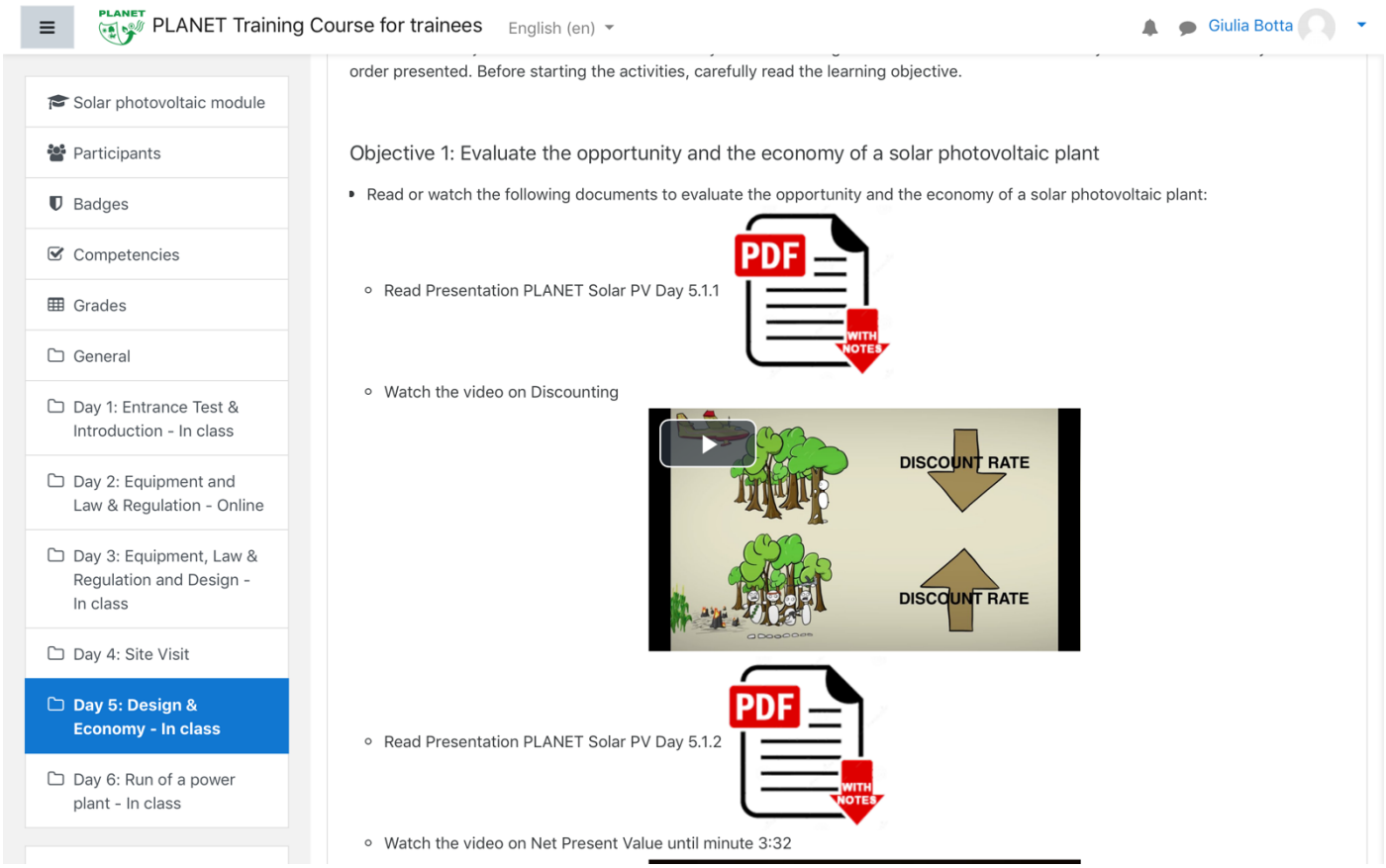


Figura 46

PLANET – PLan for Agriculture reNewable Energy Training



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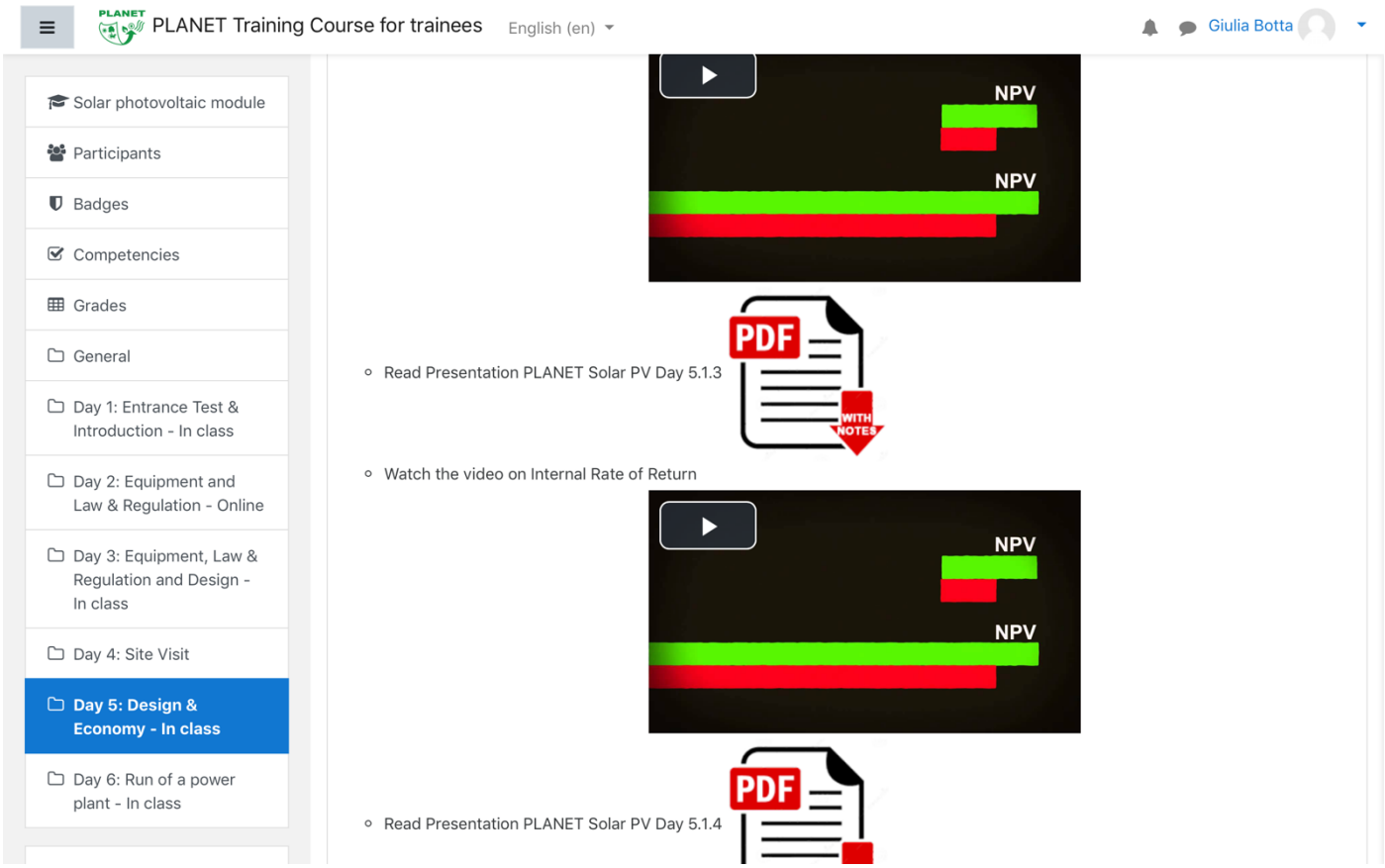

Figura 48

PLANET – PLan for Agriculture reNewable Energy Training

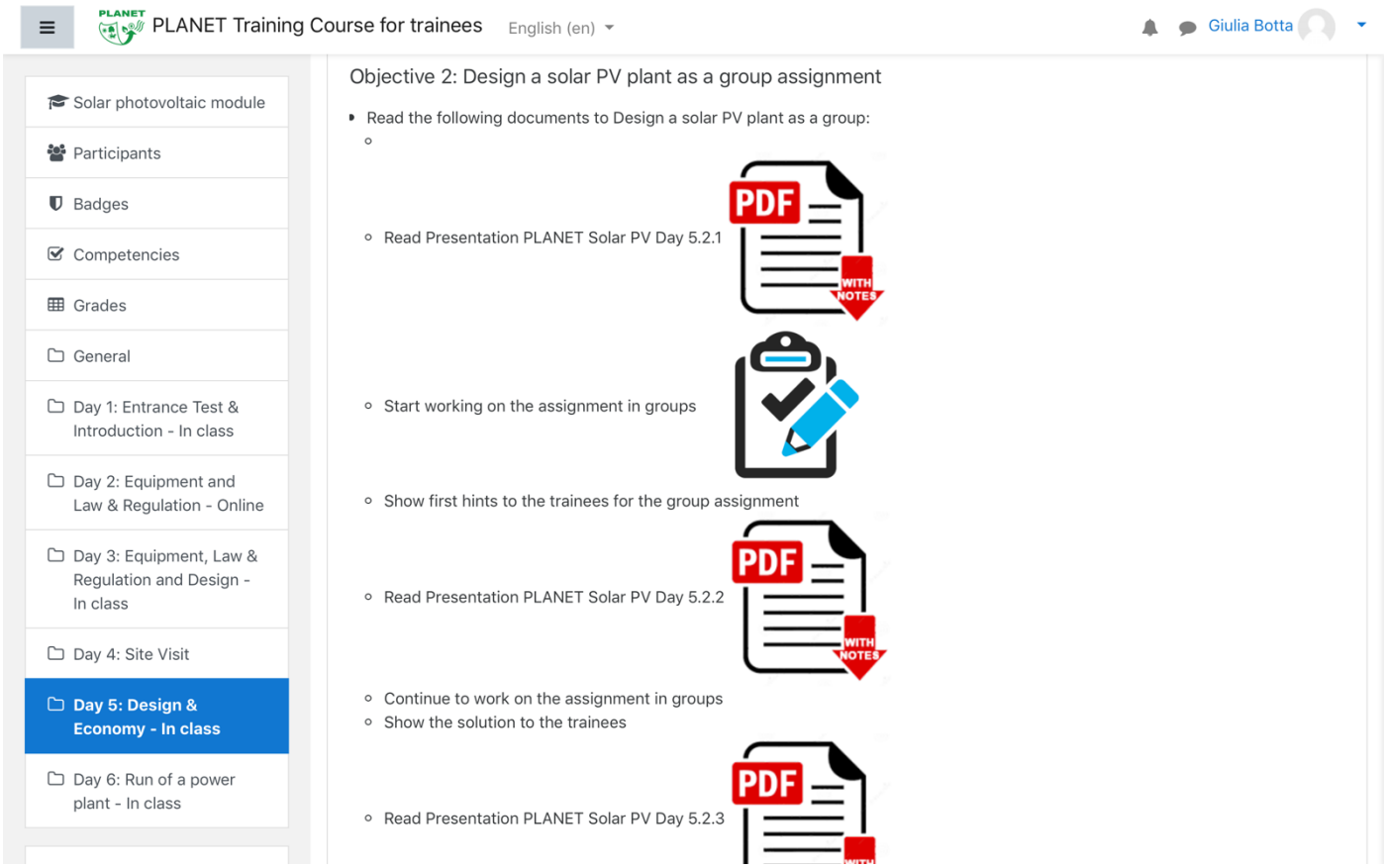

Figura 49

PLANET – PLan for Agriculture reNewable Energy Training

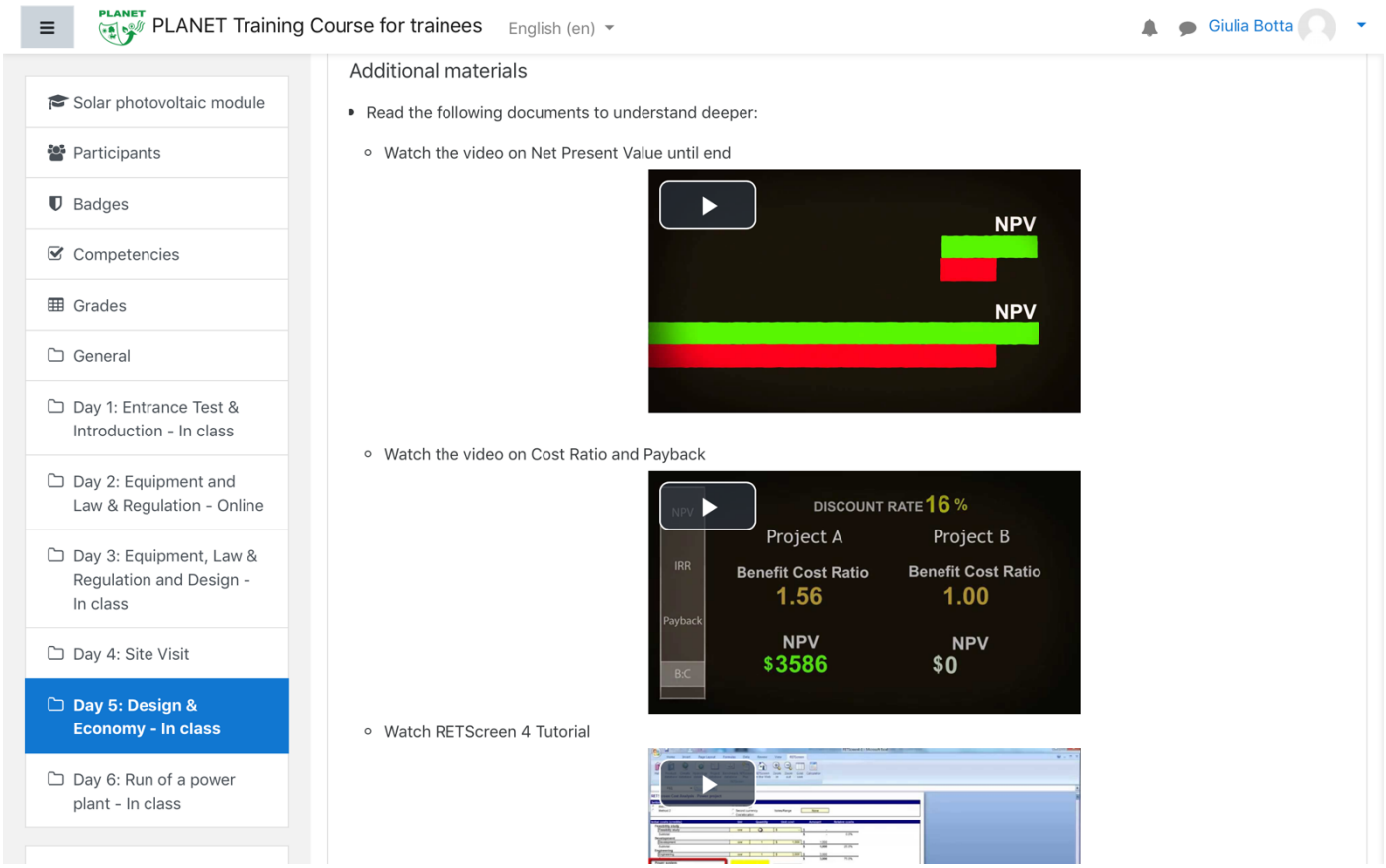

Figura 50

PLANET – PLan for Agriculture reNewable Energy Training

SIX:

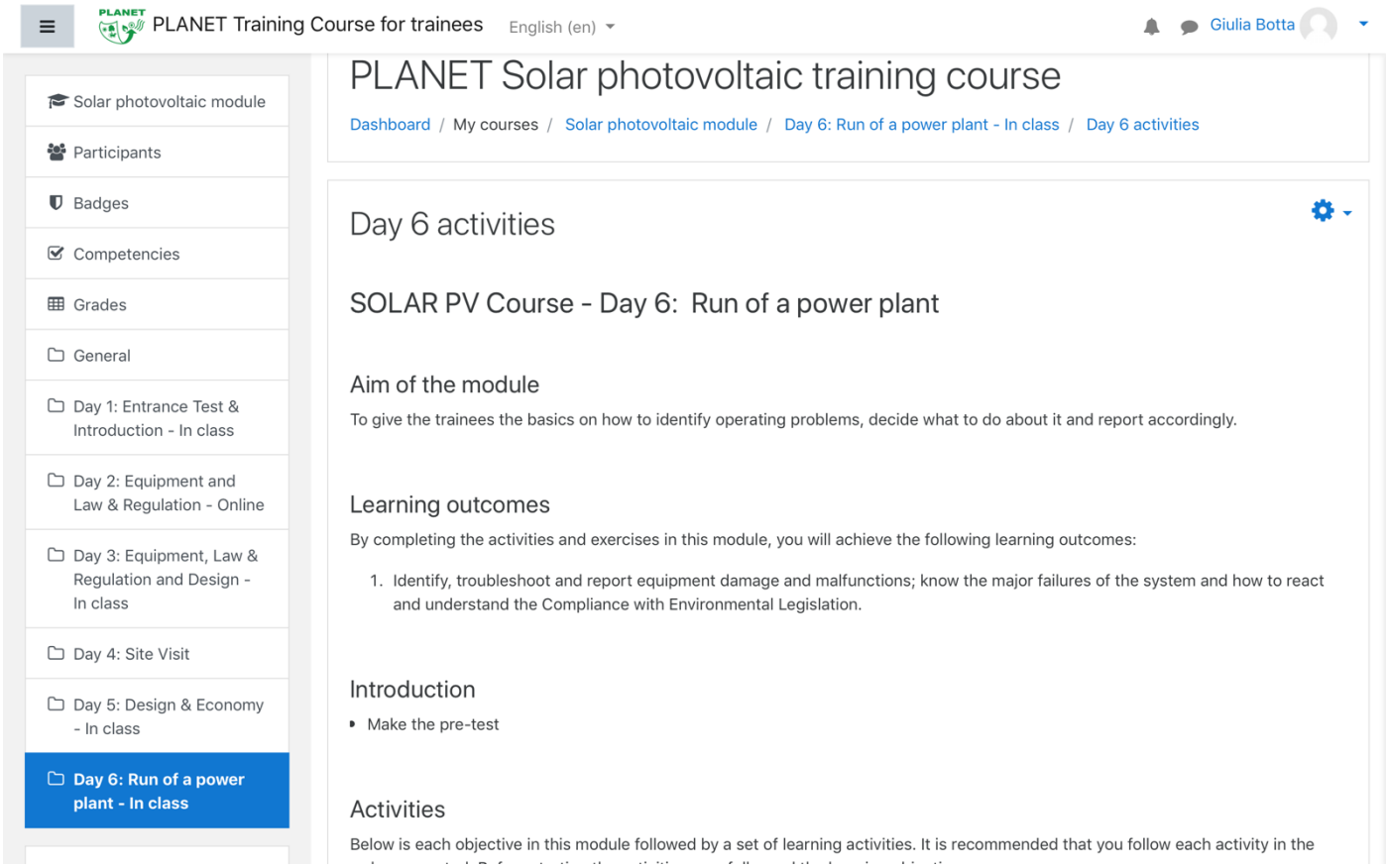

Figura 51

PLANET – PLan for Agriculture reNewable Energy Training

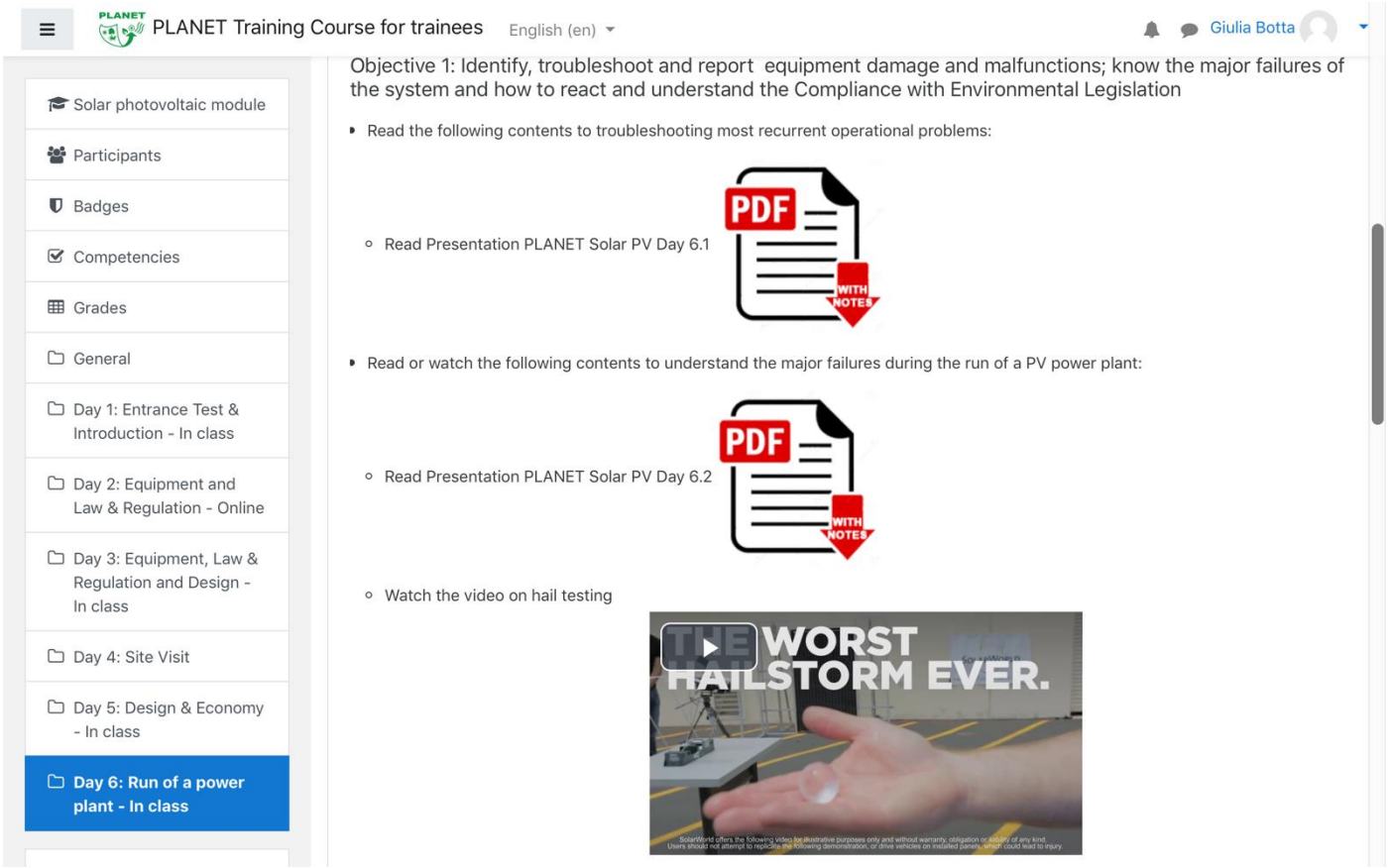

Figura 52

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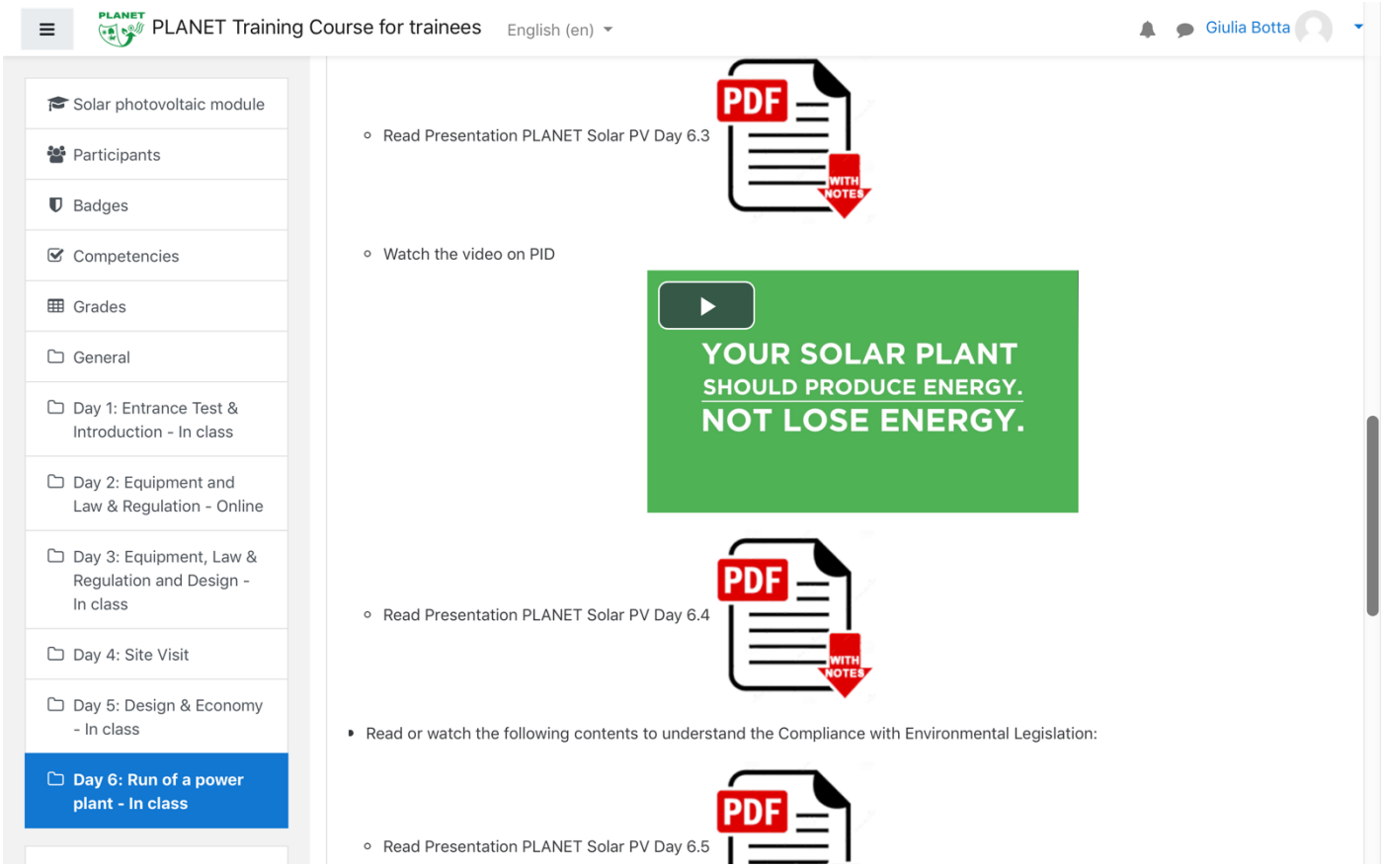

Figura 53

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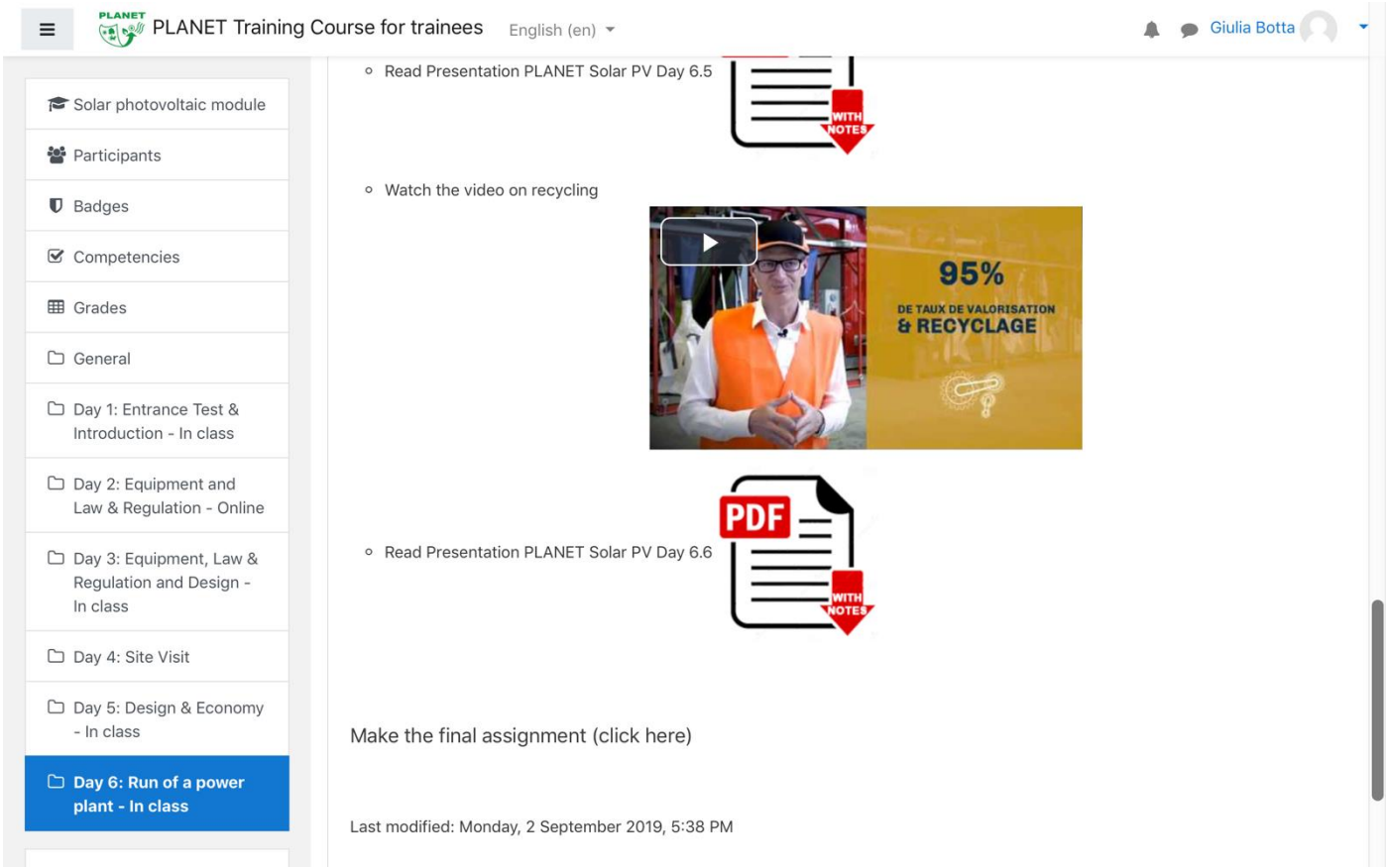


Figura 54

PLANET – PLan for Agriculture reNewable Energy Training

1.4 PLANET Solar Thermal training course

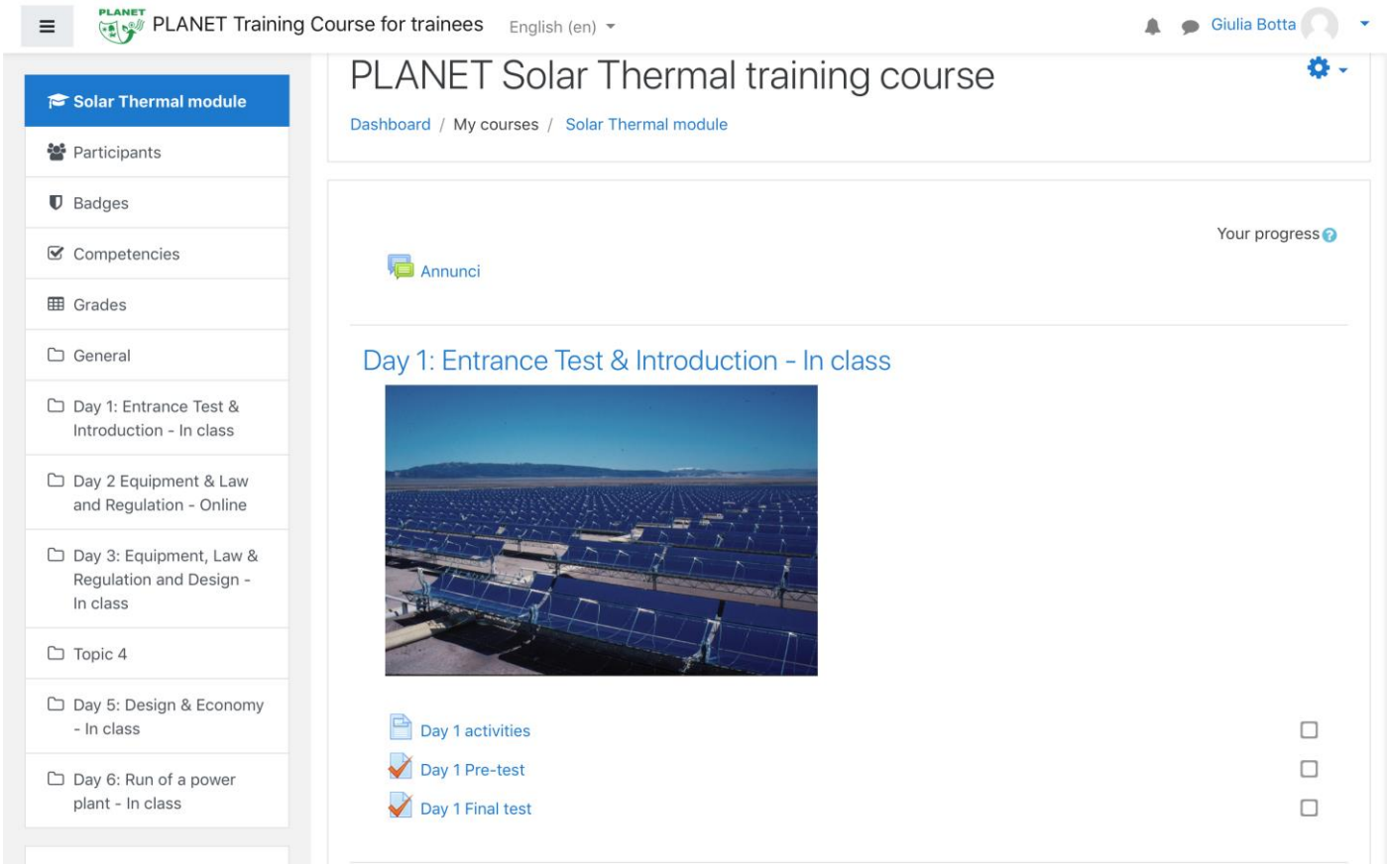


Figura 55

PLANET – PLan for Agriculture reNewable Energy Training

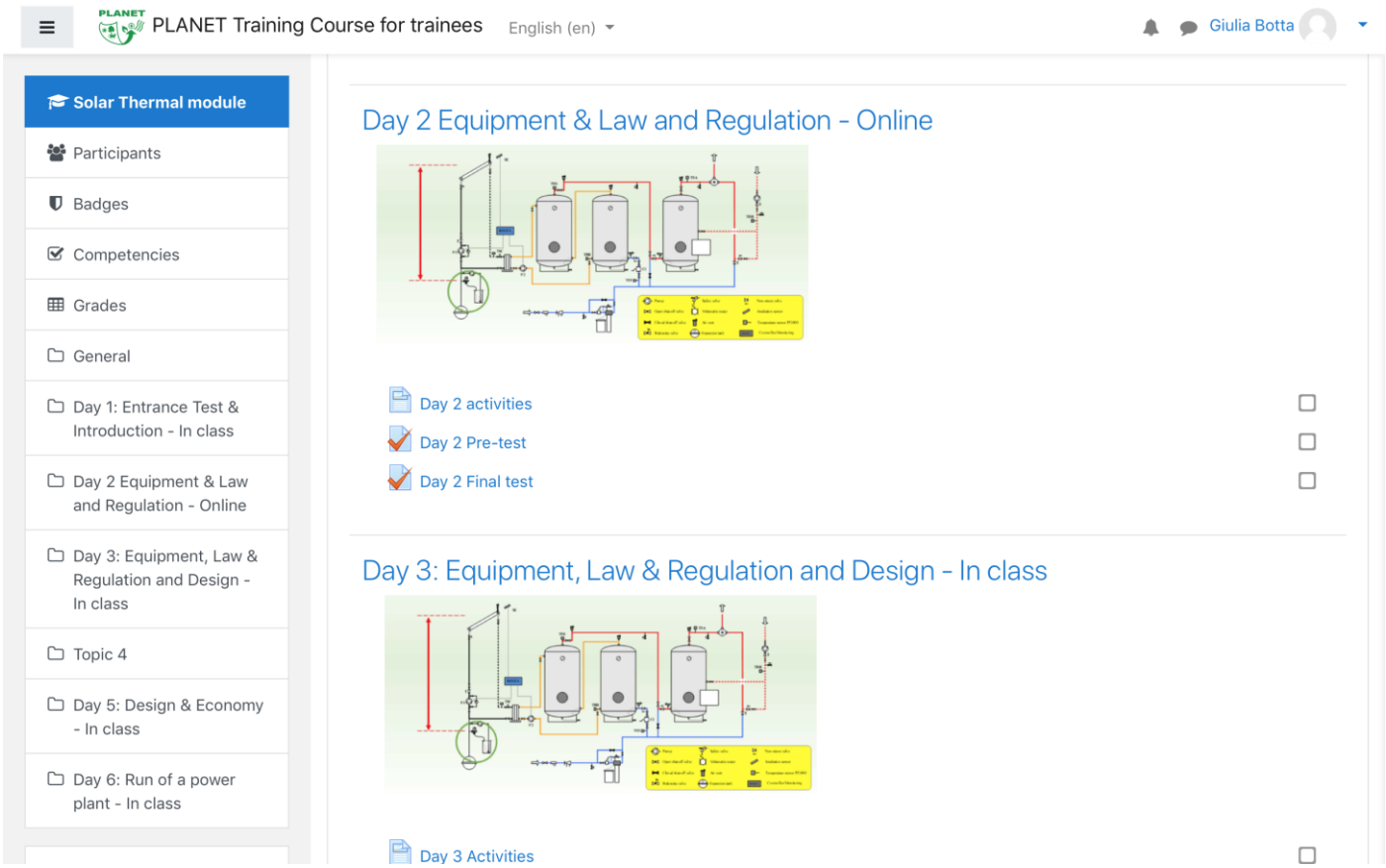


Figura 56

PLANET – PLan for Agriculture reNewable Energy Training

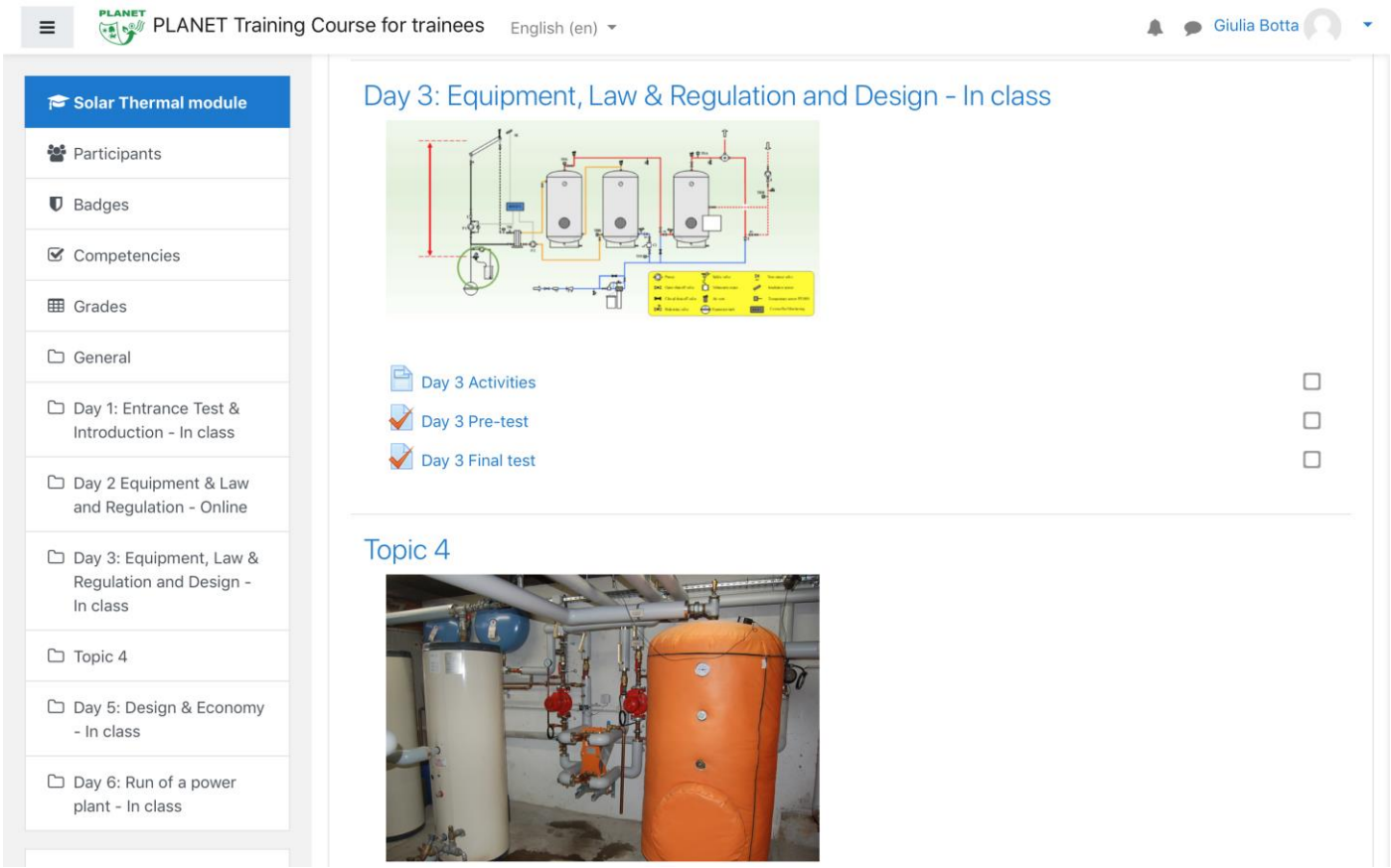


Figura 57

PLANET – PLan for Agriculture reNewable Energy Training

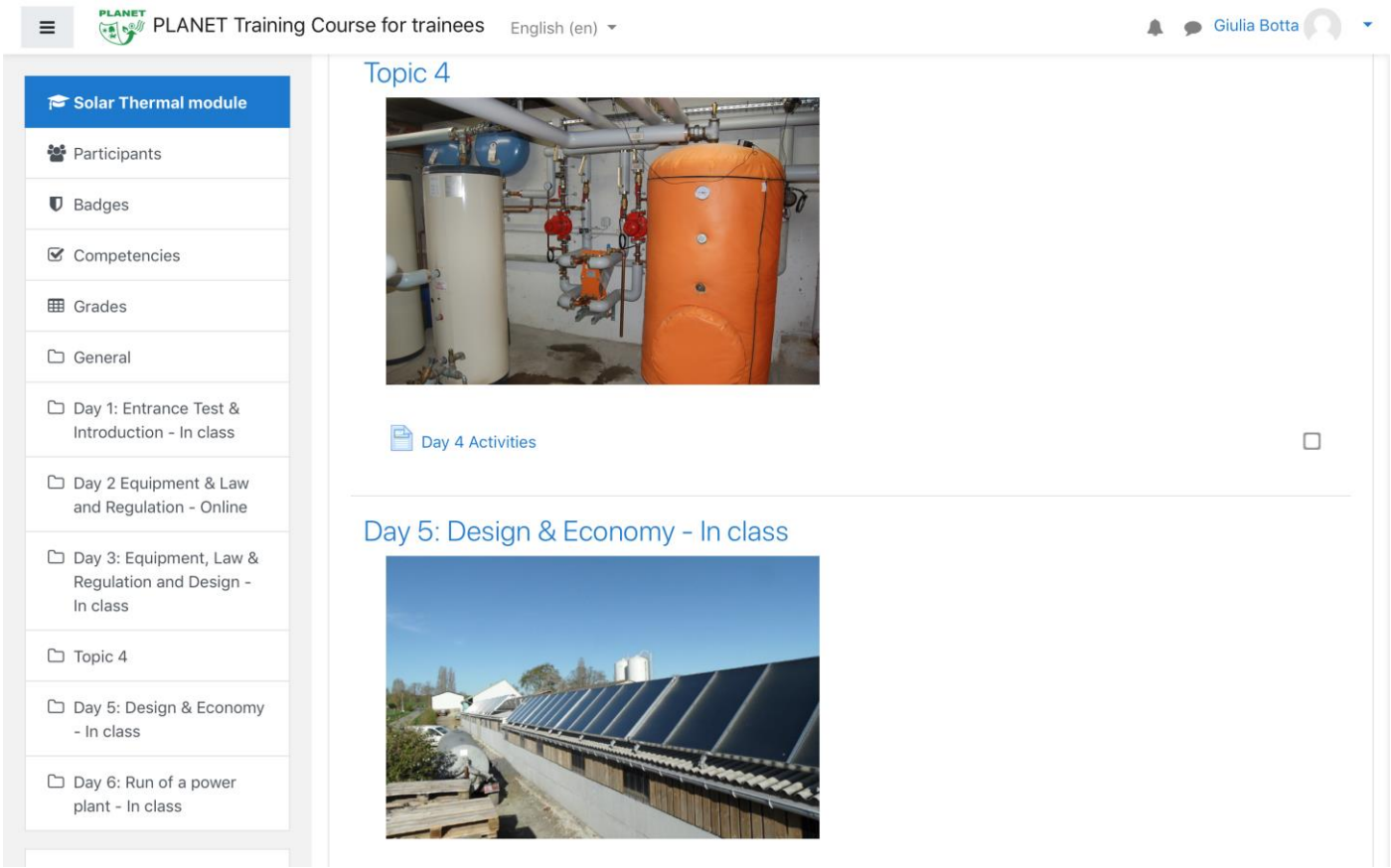


Figura 58

PLANET – PLan for Agriculture reNewable Energy Training

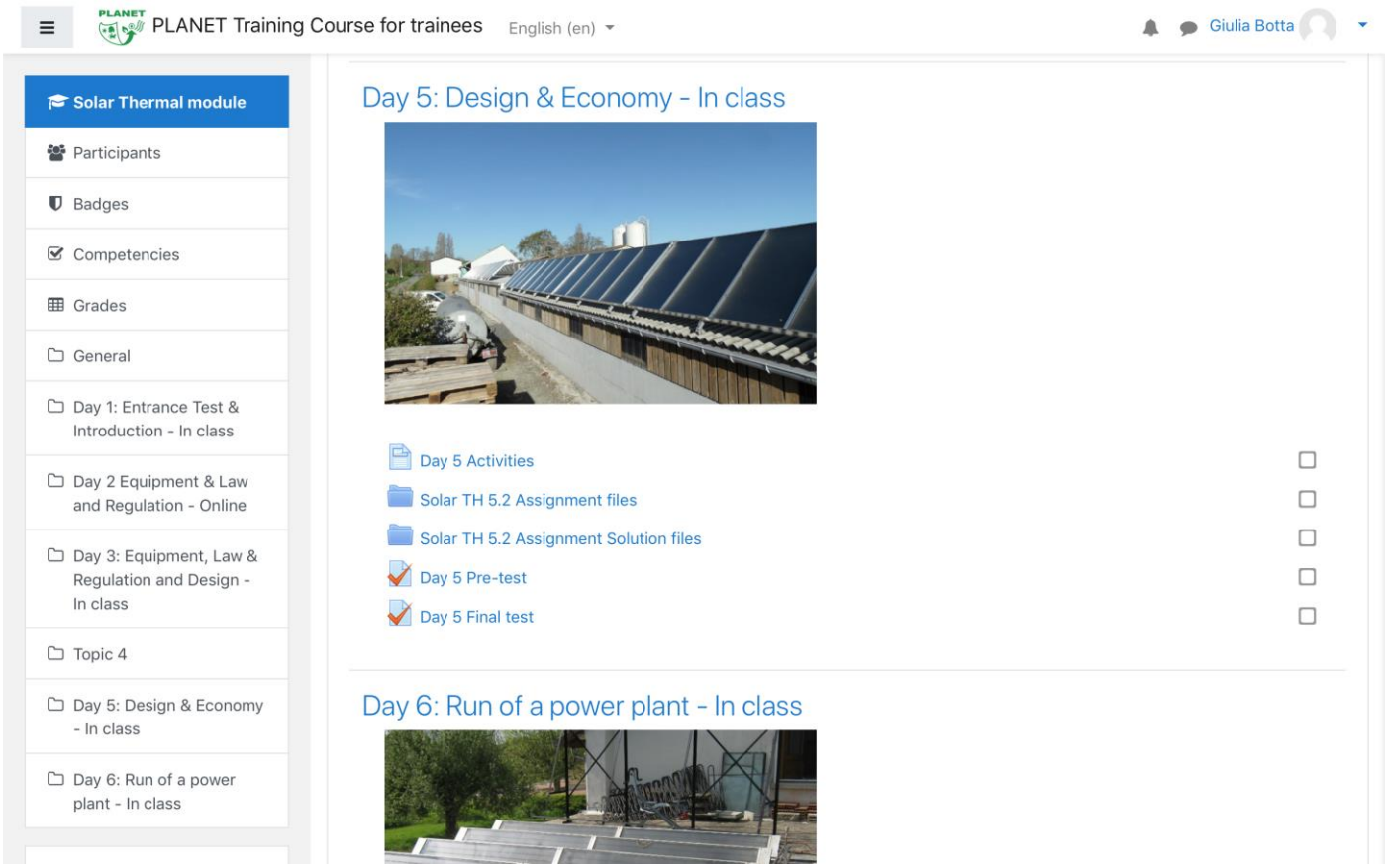


Figura 59

PLANET – PLan for Agriculture reNewable Energy Training

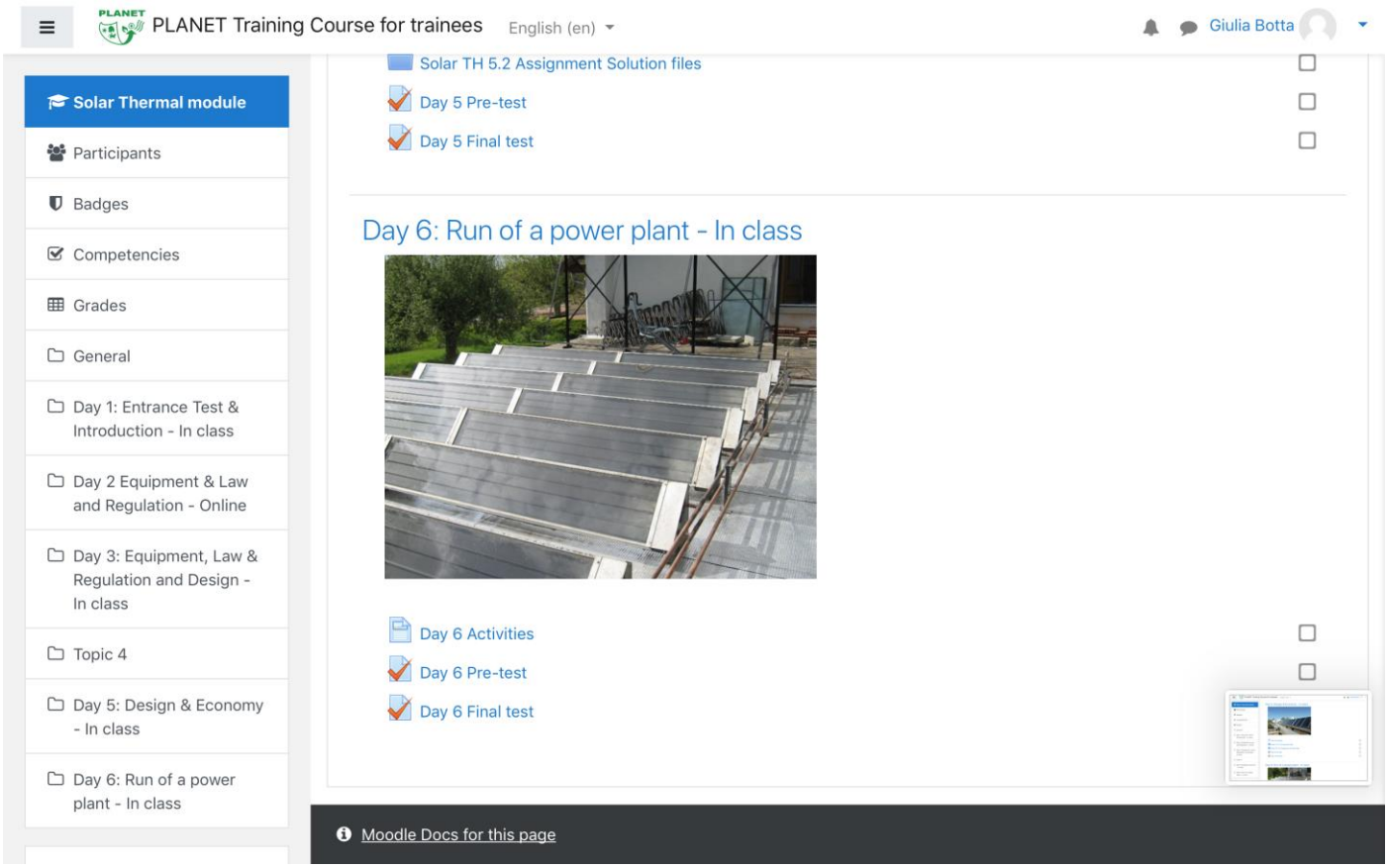


Figura 60

PLANET – PLan for Agriculture reNewable Energy Training

DAYS ACTIVITIES:

ONE:

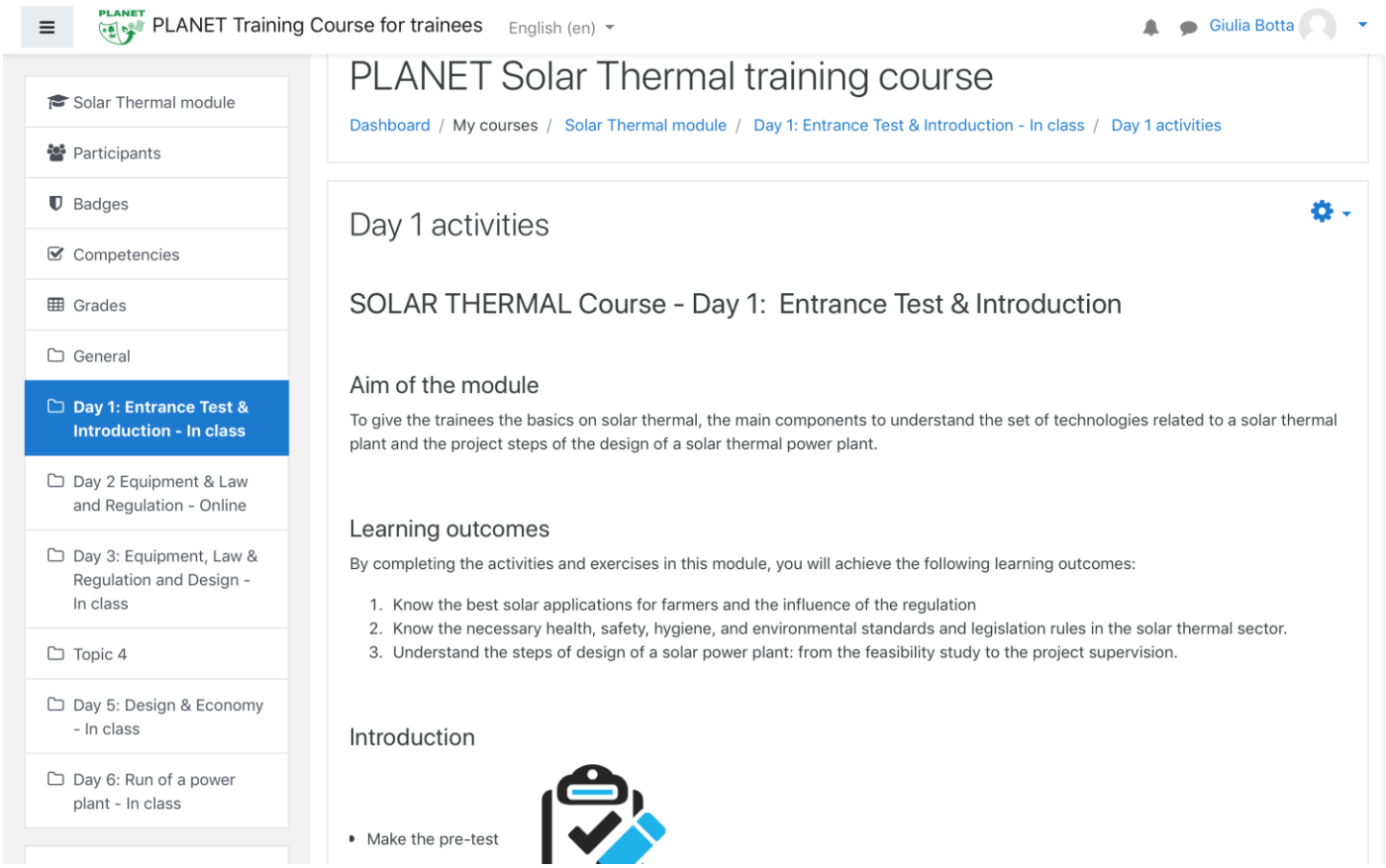


Figura 61

PLANET – PLan for Agriculture reNewable Energy Training

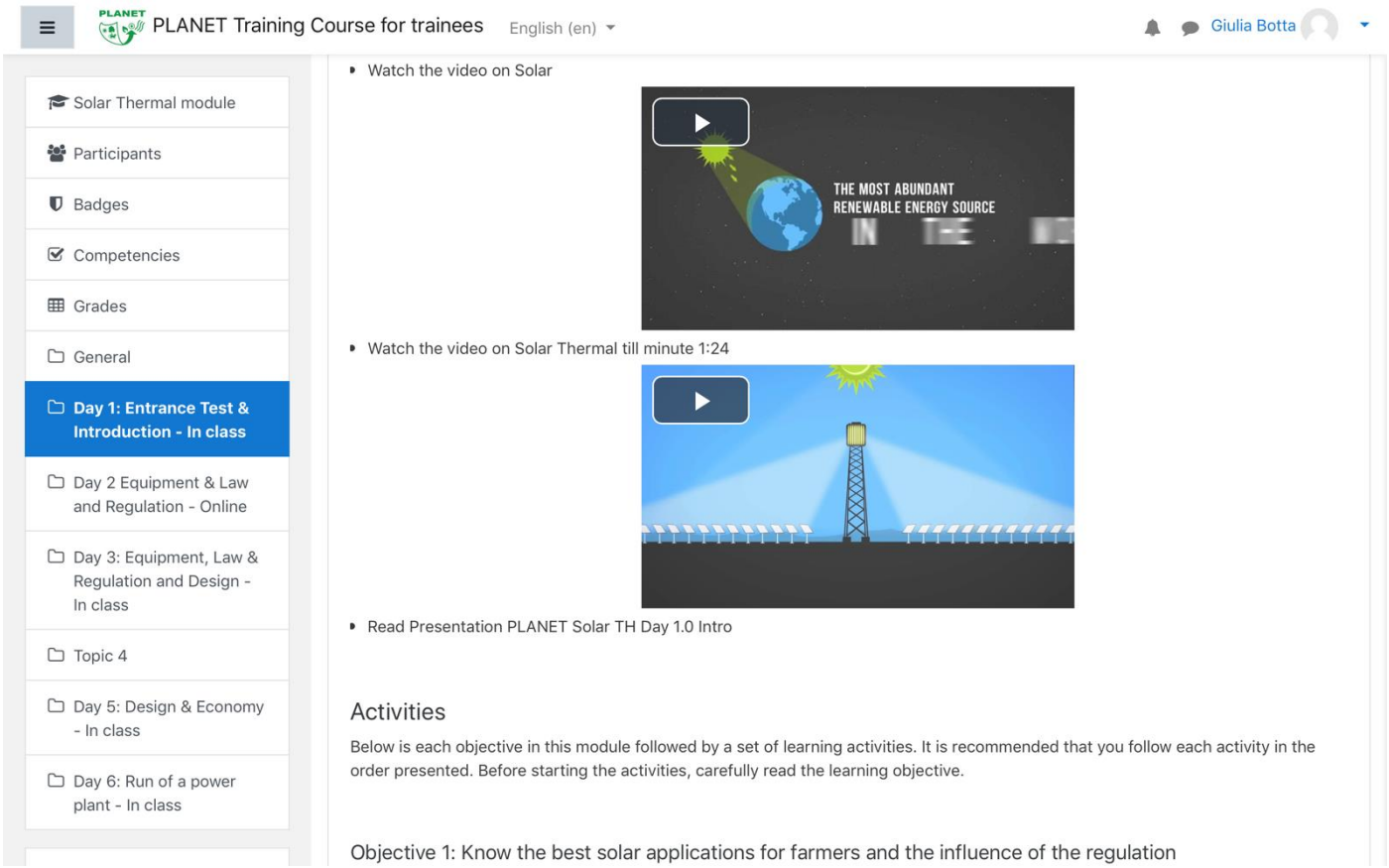


Figura 62

PLANET – PLan for Agriculture reNewable Energy Training

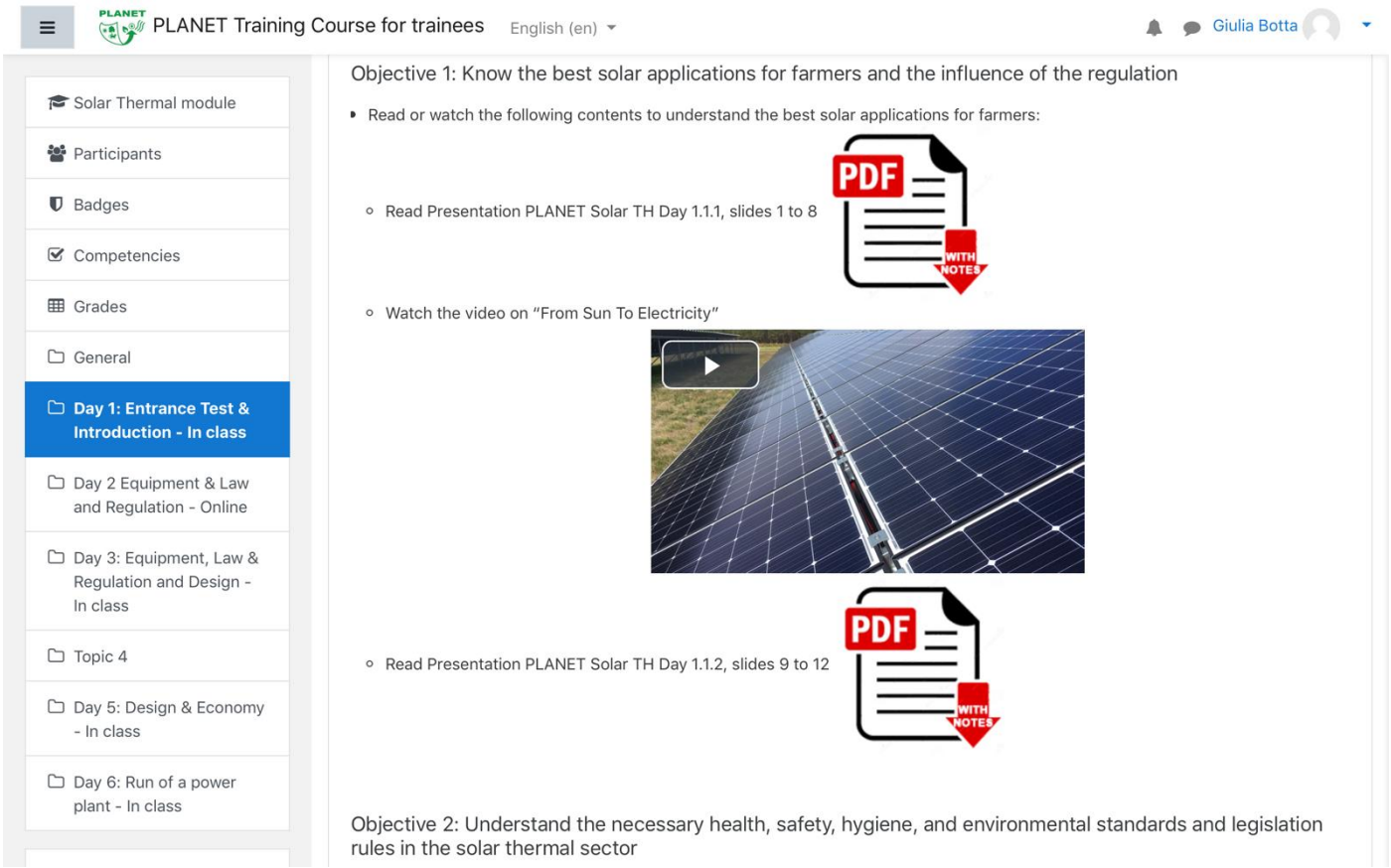


Figura 63

PLANET – PLan for Agriculture reNewable Energy Training

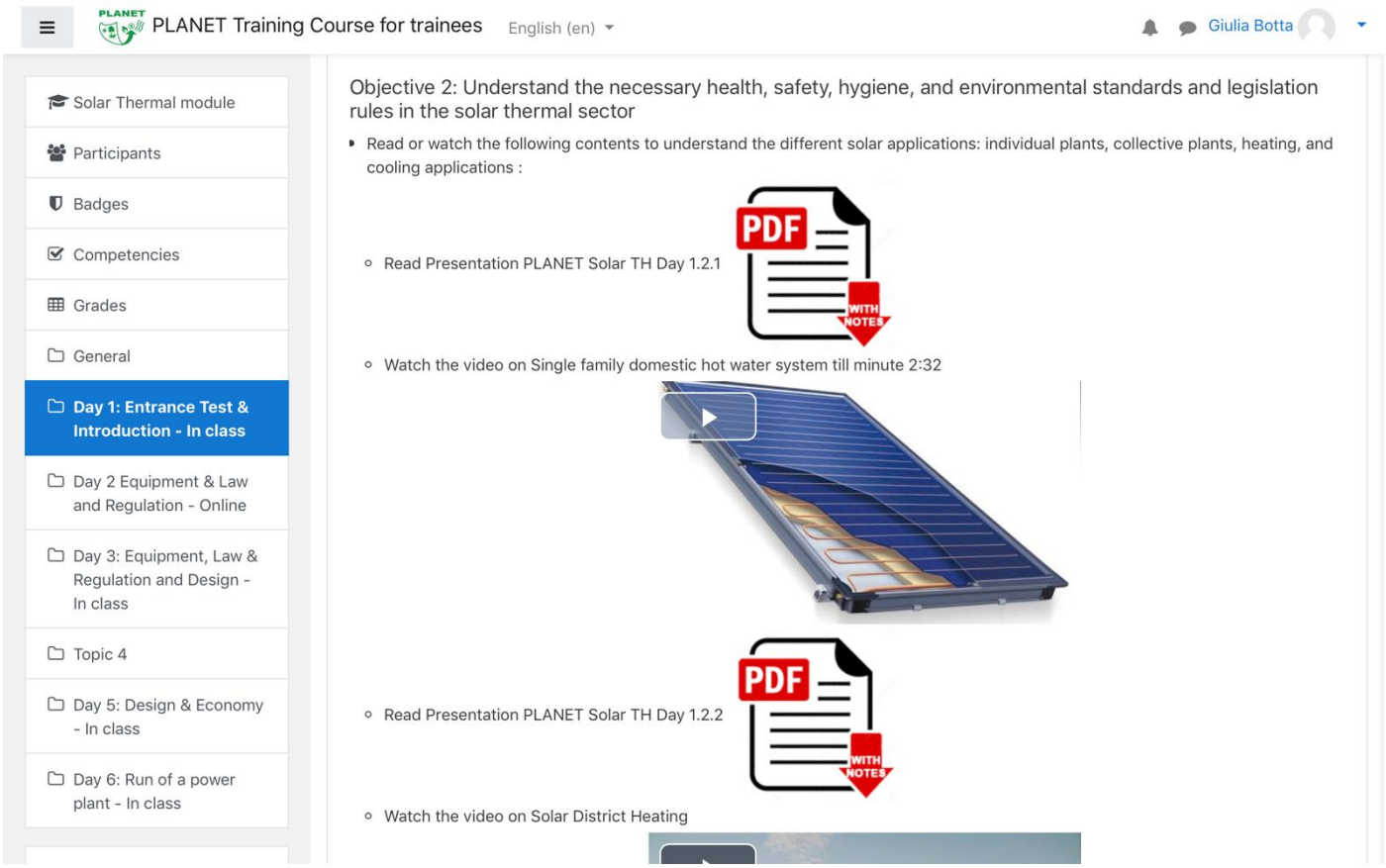
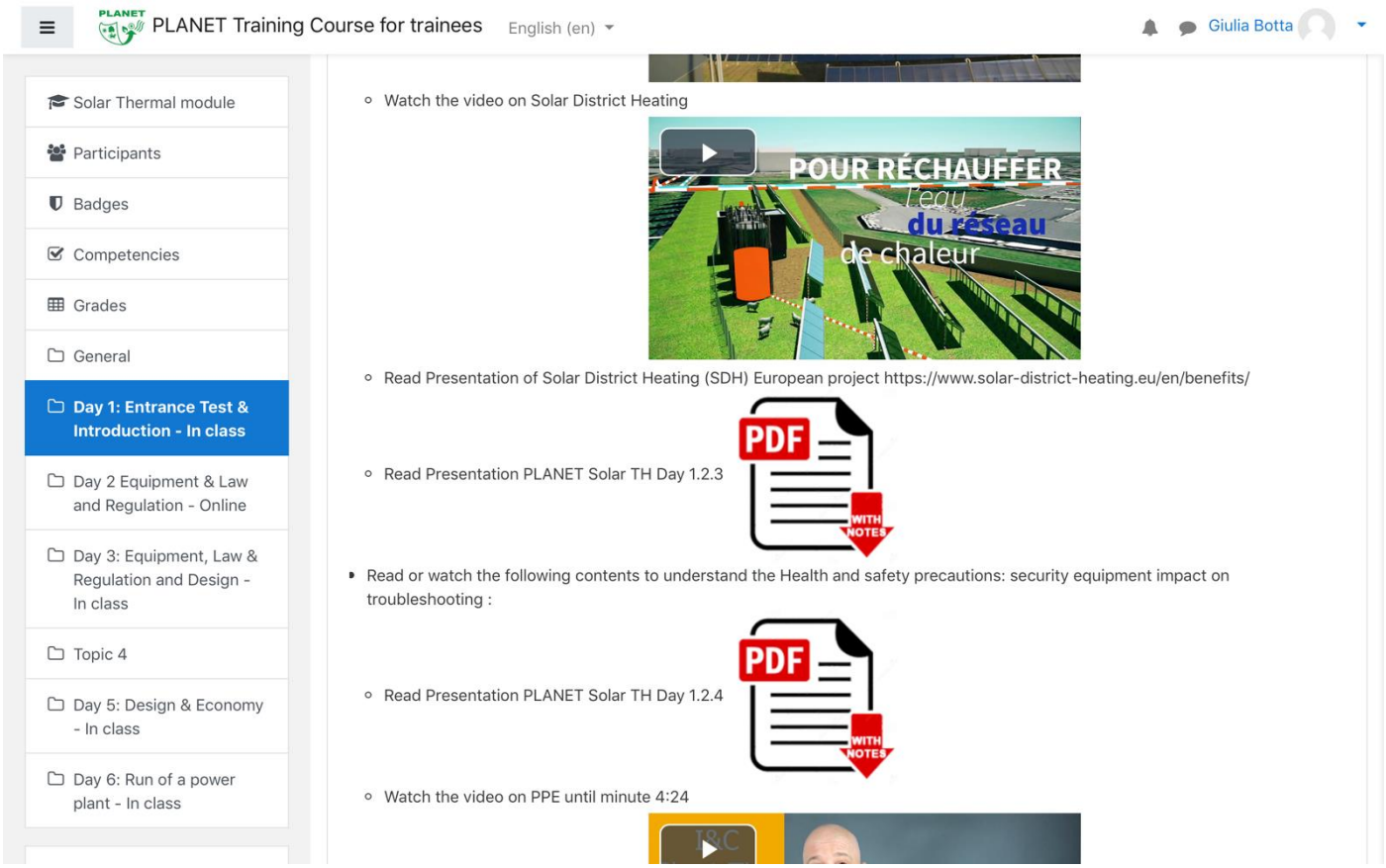


Figura 64

PLANET – PLan for Agriculture reNewable Energy Training



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PLANET – PLan for Agriculture reNewable Energy Training

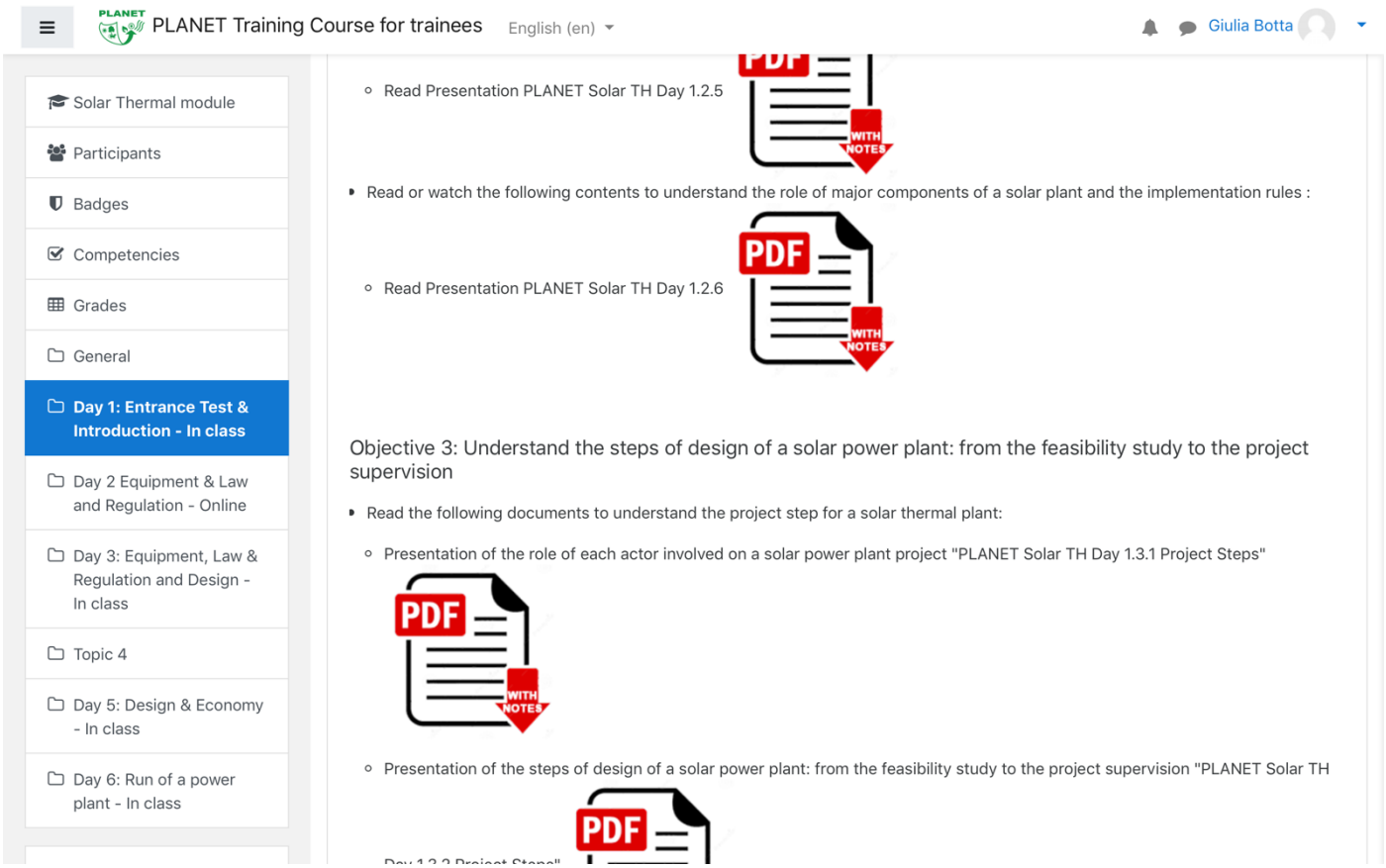


Figura 66

PLANET – PLan for Agriculture reNewable Energy Training

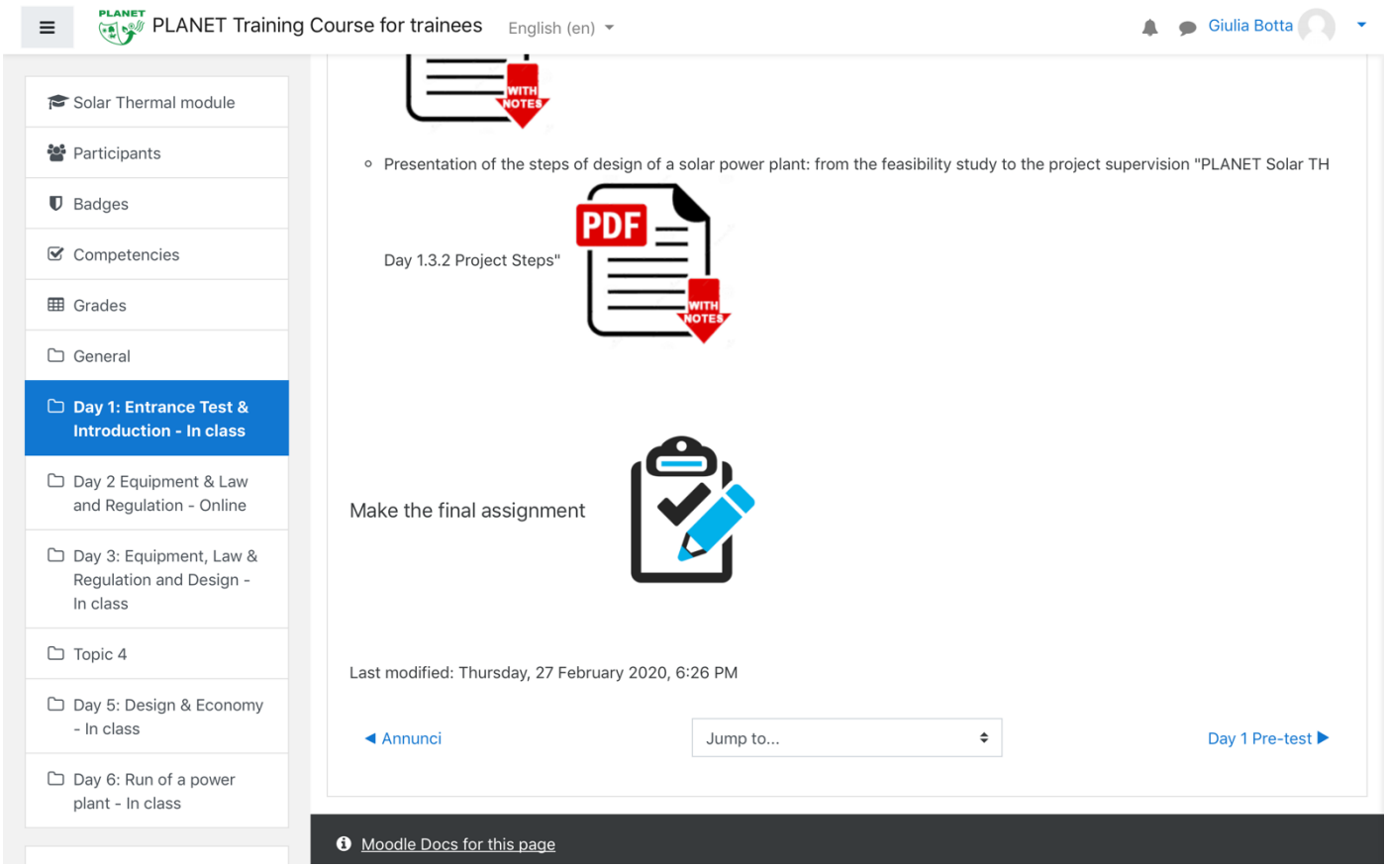


Figura 67

TWO:

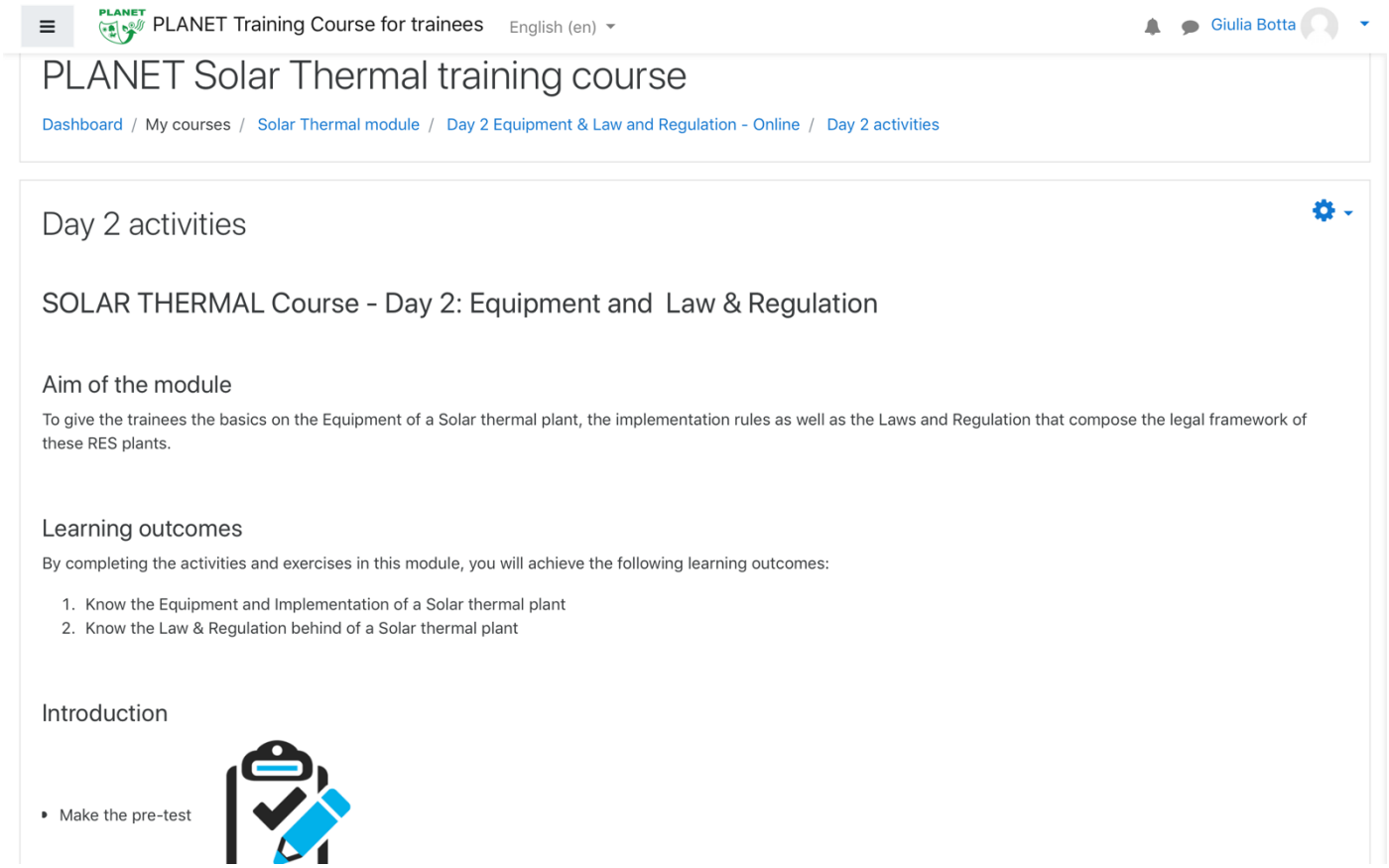


Figura 68

PLANET – PLan for Agriculture reNewable Energy Training

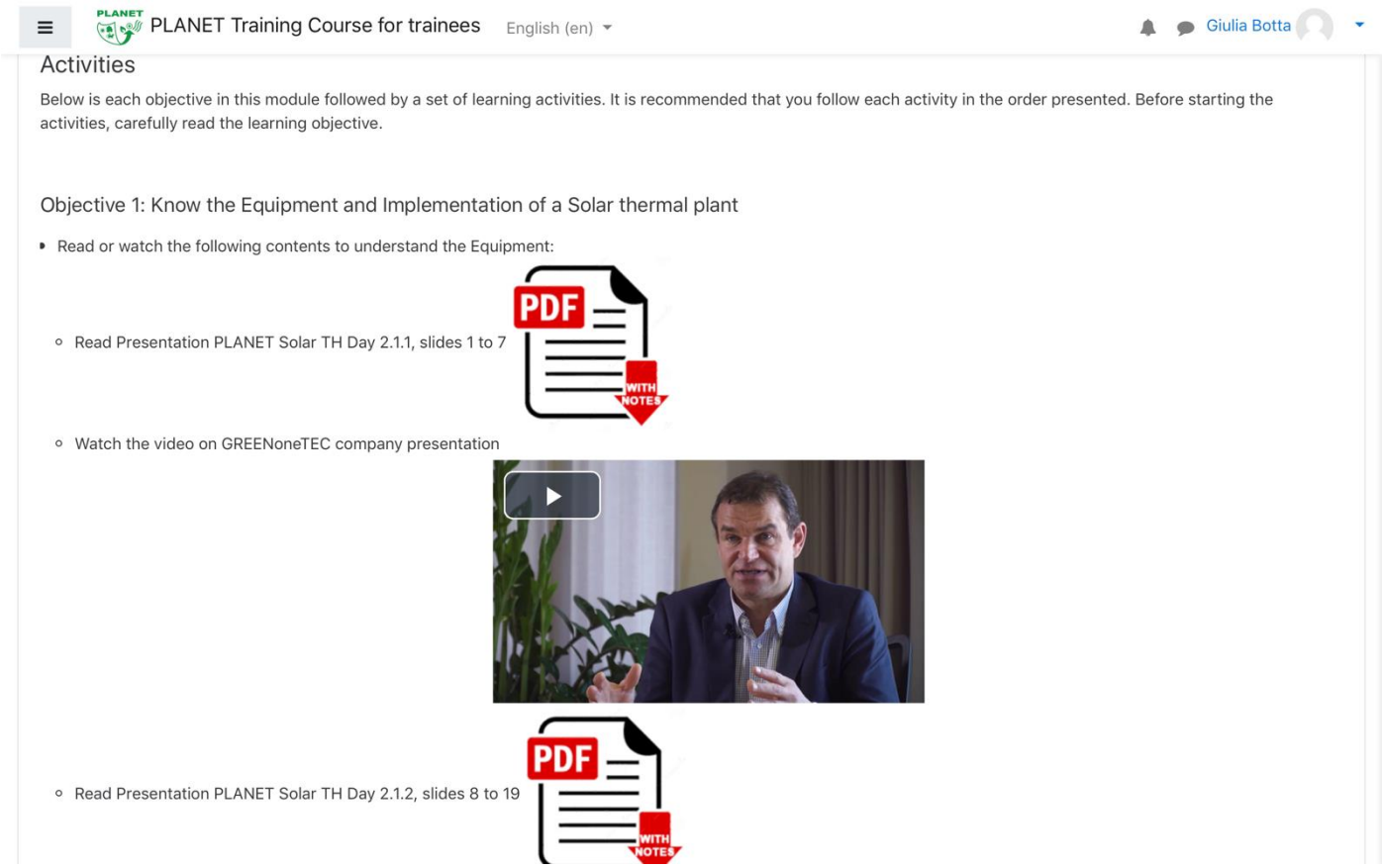


Figura 69

PLANET – PLan for Agriculture reNewable Energy Training

Figura 70

PLANET – PLan for Agriculture reNewable Energy Training

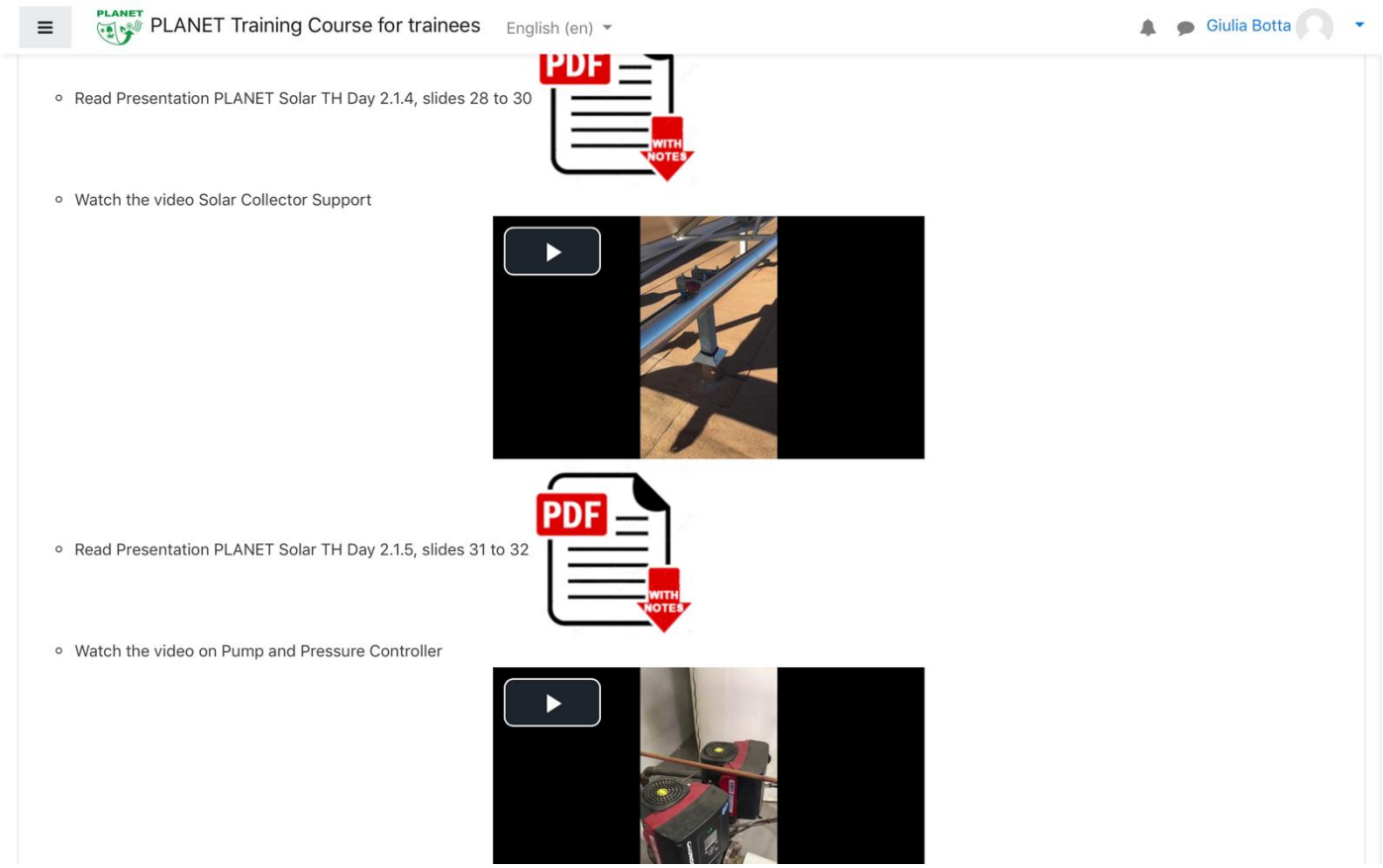


Figura 71

PLANET – PLan for Agriculture reNewable Energy Training

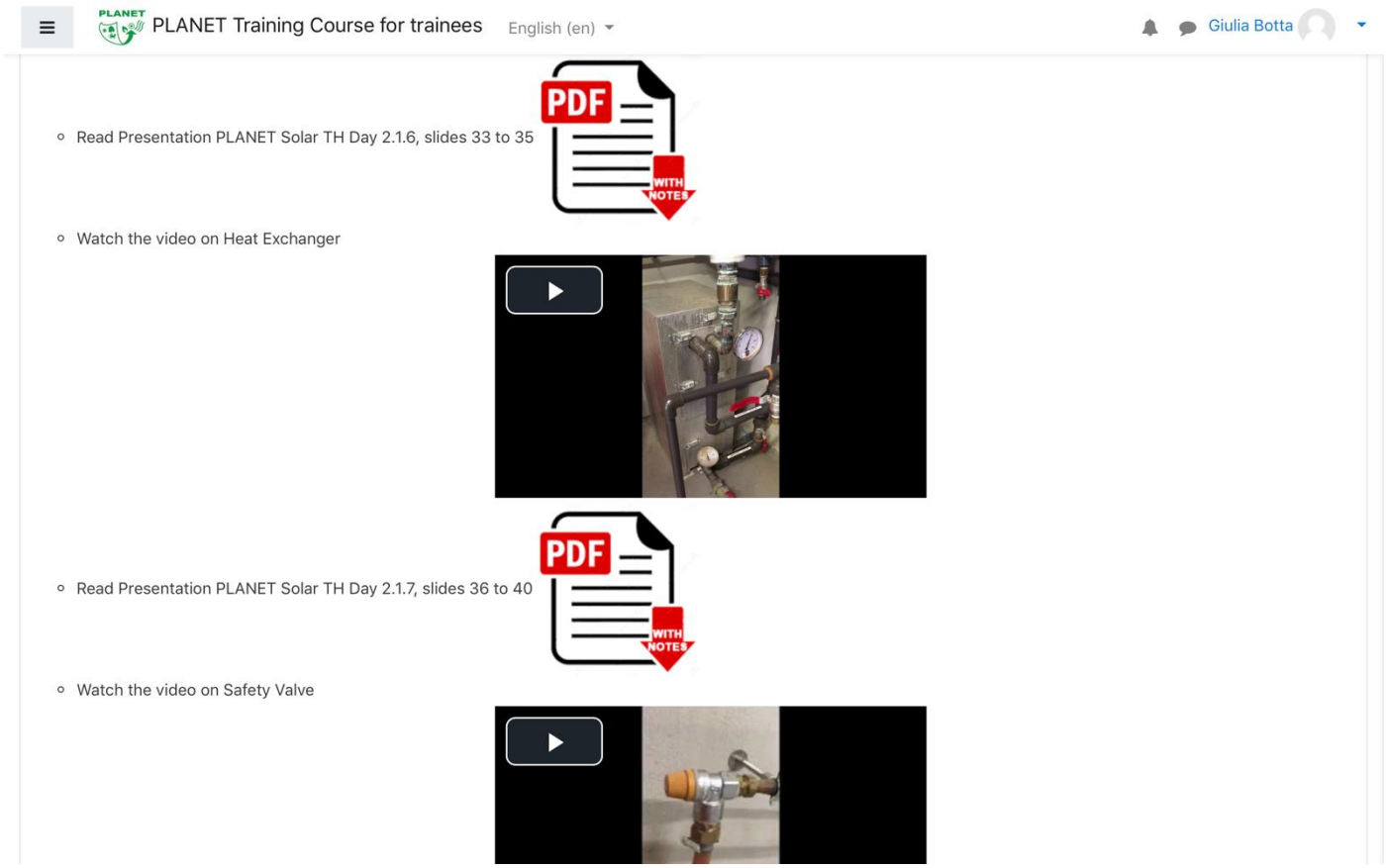


Figura 72

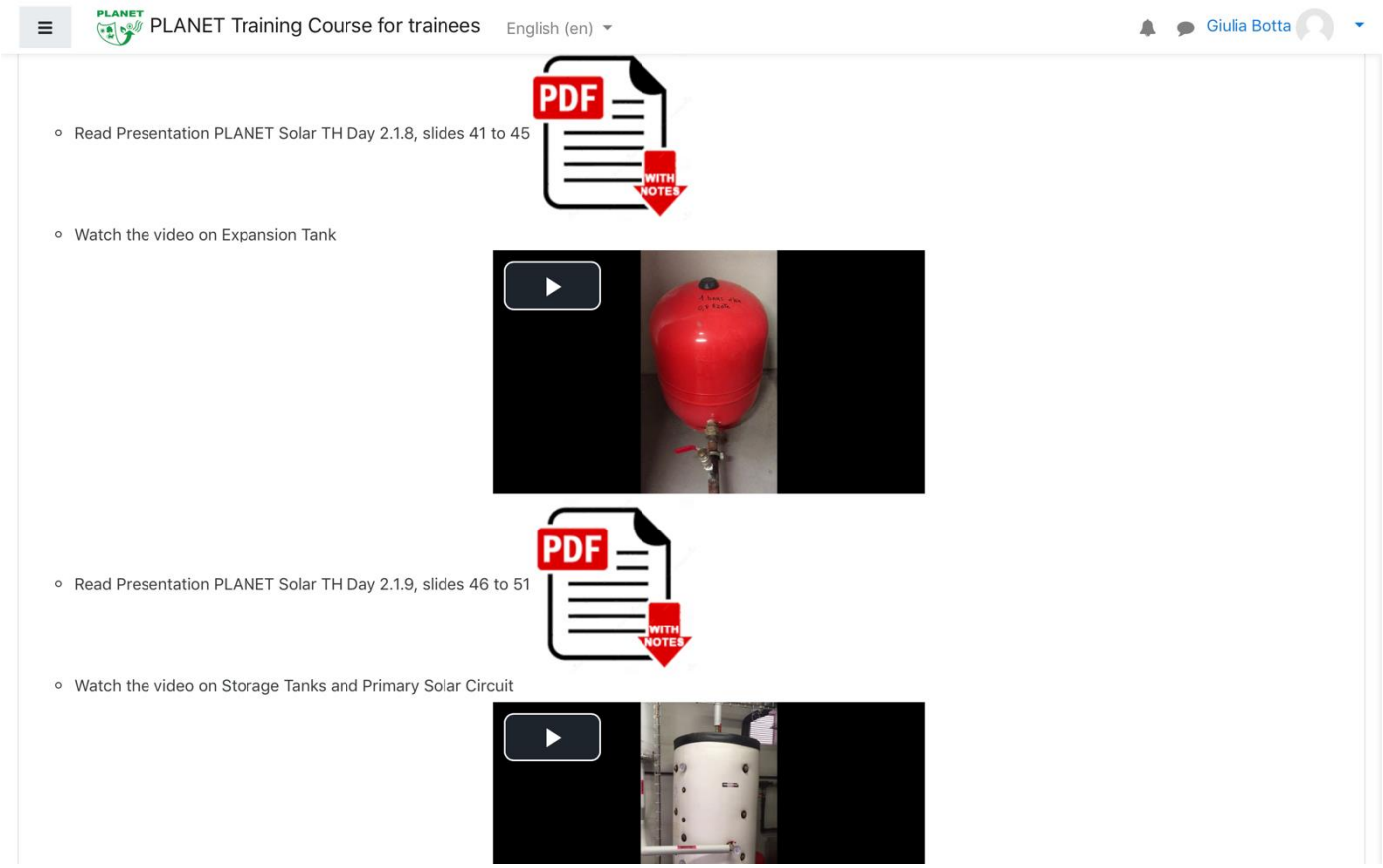

PLANET Training Course for trainees
English (en)
Giulia Botta
Read Presentation PLANET Solar TH Day 2.1.8, slides 41 to 45
PDF
WITH NOTES
Watch the video on Expansion Tank
Read Presentation PLANET Solar TH Day 2.1.9, slides 46 to 51
PDF
WITH NOTES
Watch the video on Storage Tanks and Primary Solar Circuit

Figura 73

PLANET – PLan for Agriculture reNewable Energy Training

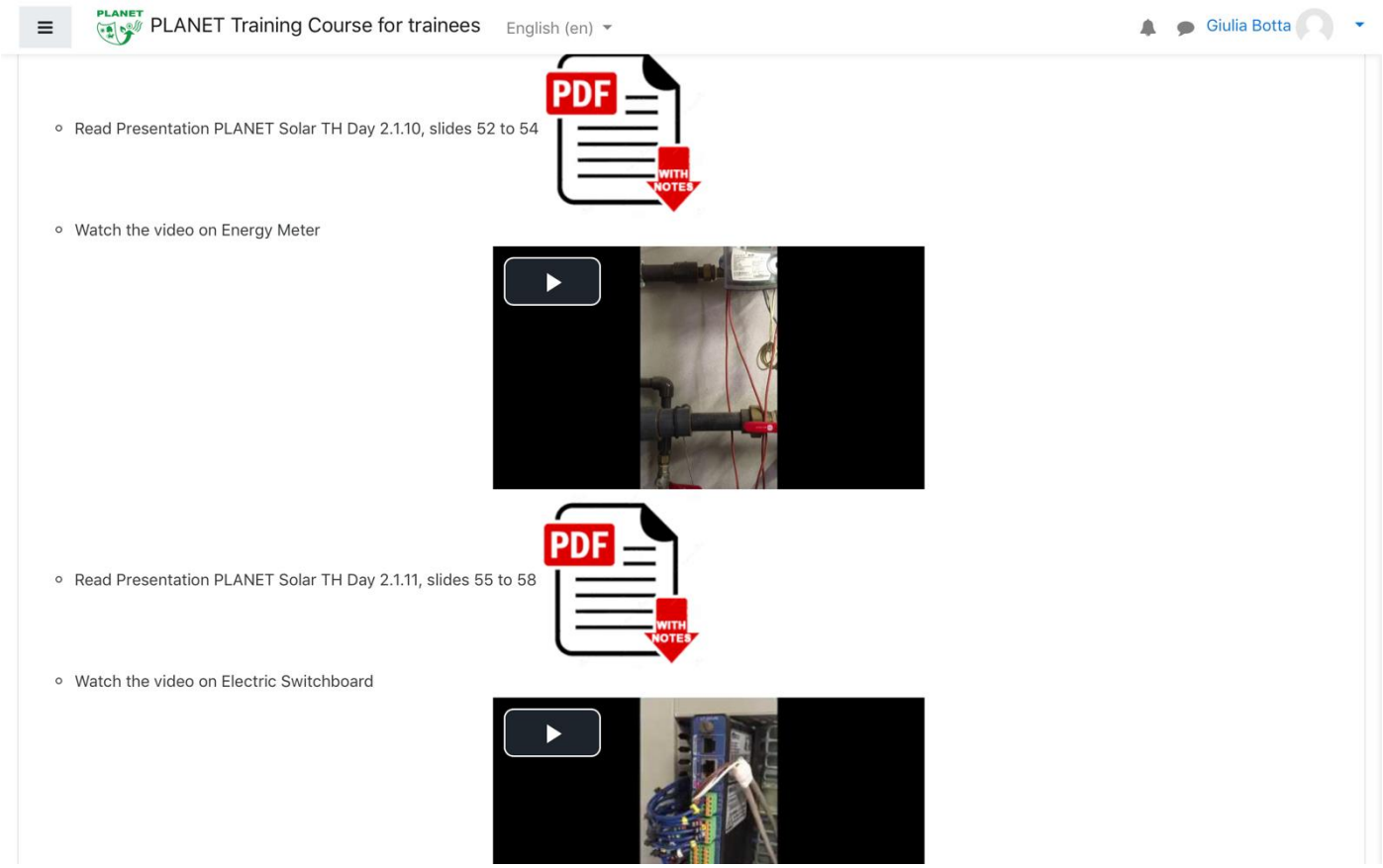


Figura 74

PLANET – PLan for Agriculture reNewable Energy Training

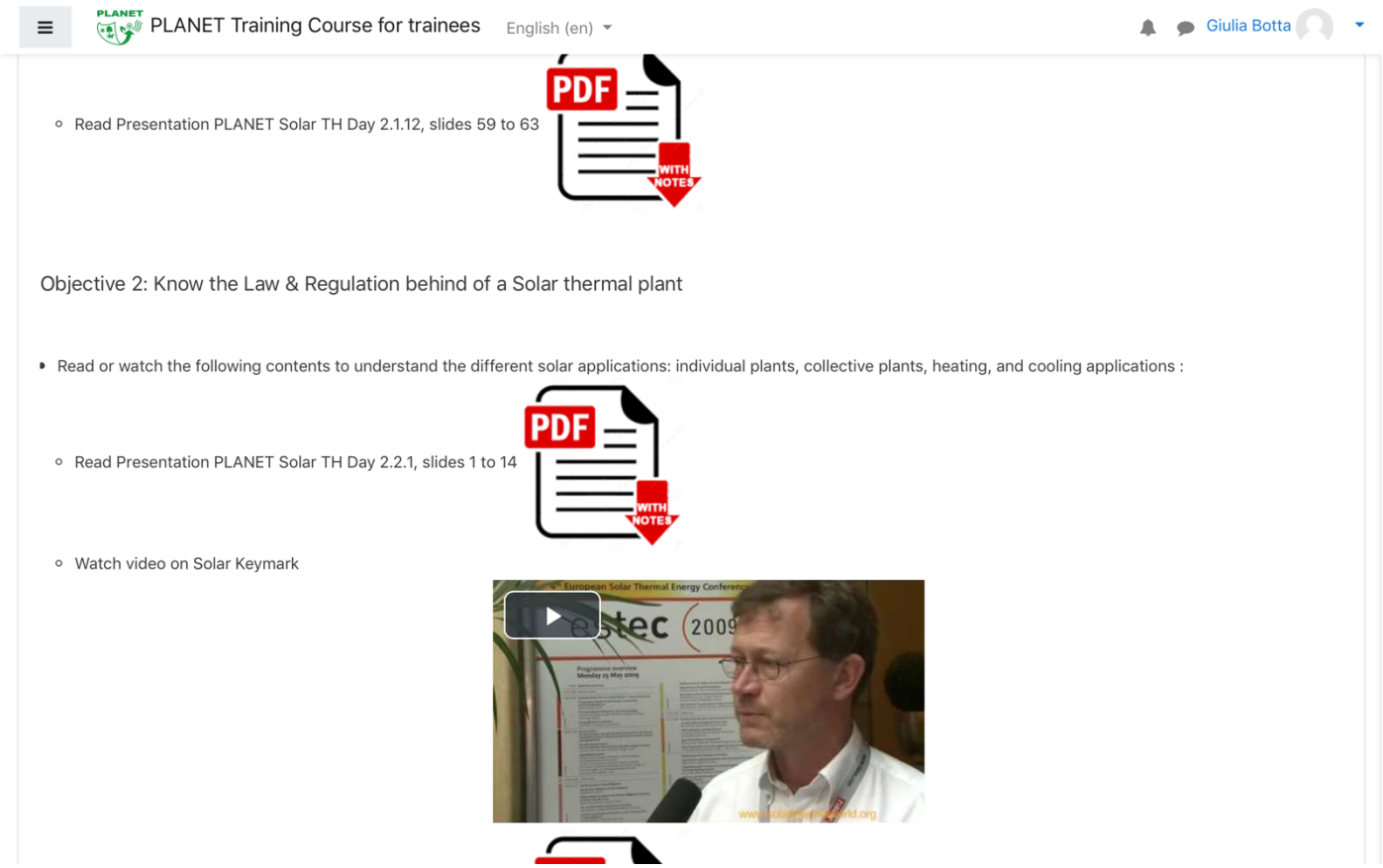
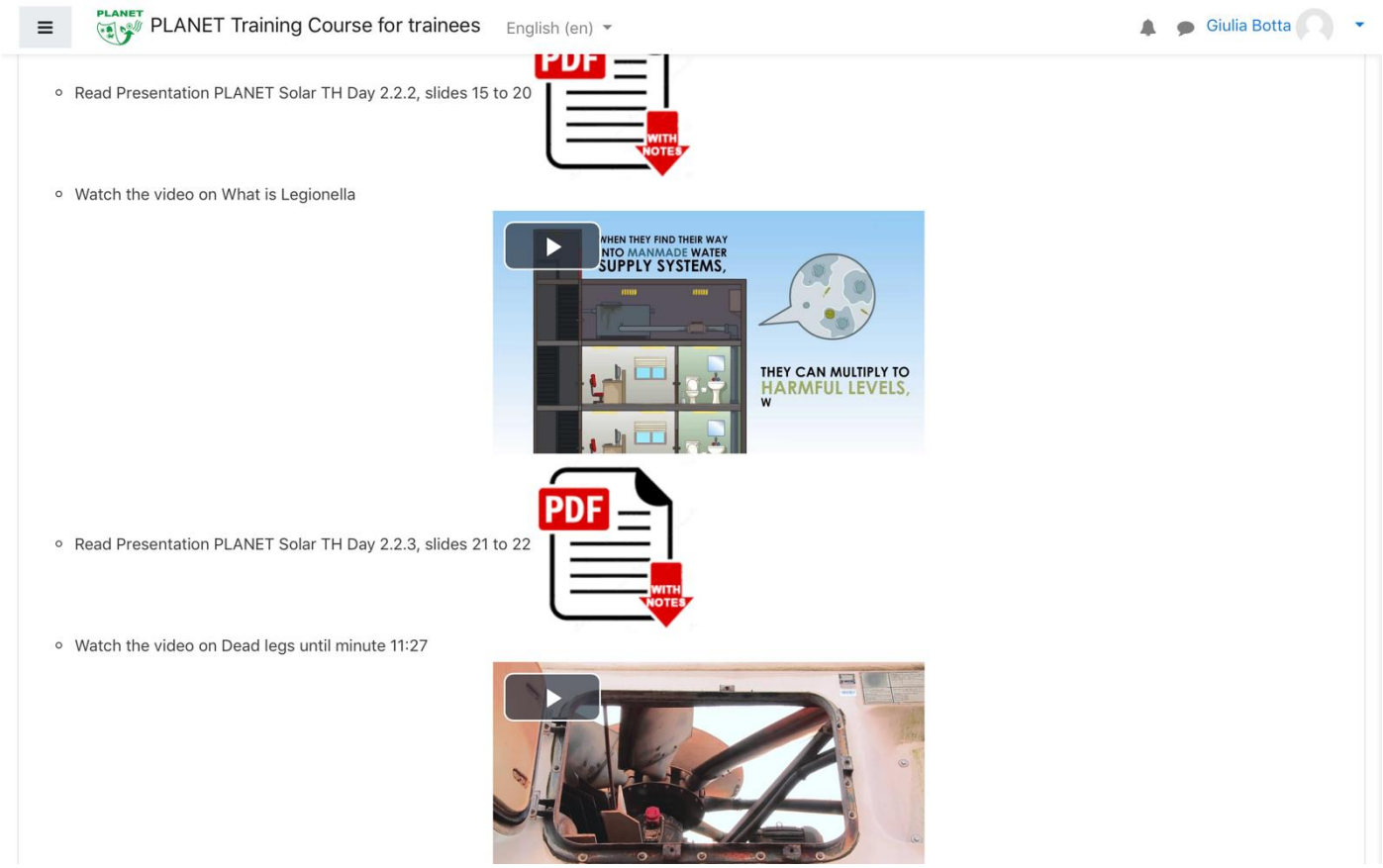


Figura 75

PLANET – PLan for Agriculture reNewable Energy Training



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PLANET – PLan for Agriculture reNewable Energy Training

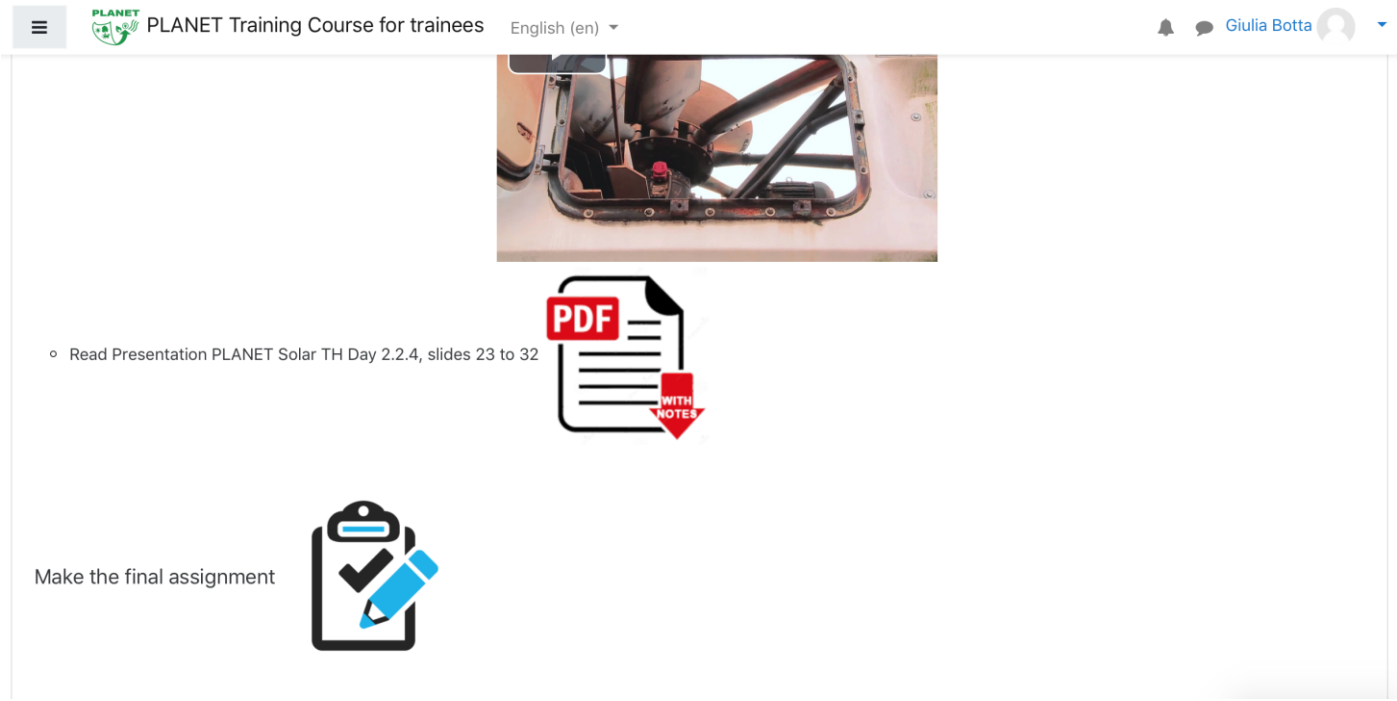

Figura 77

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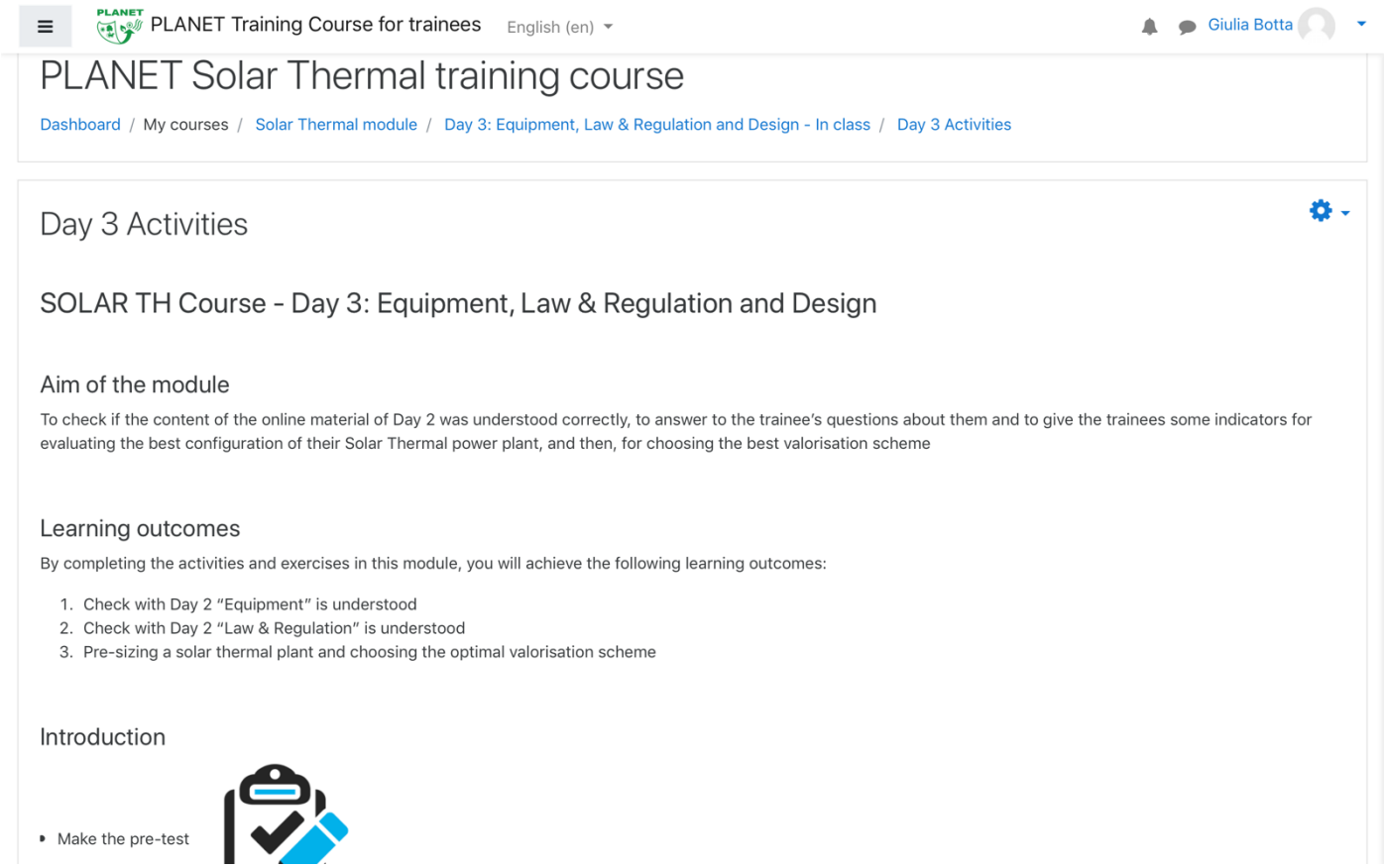

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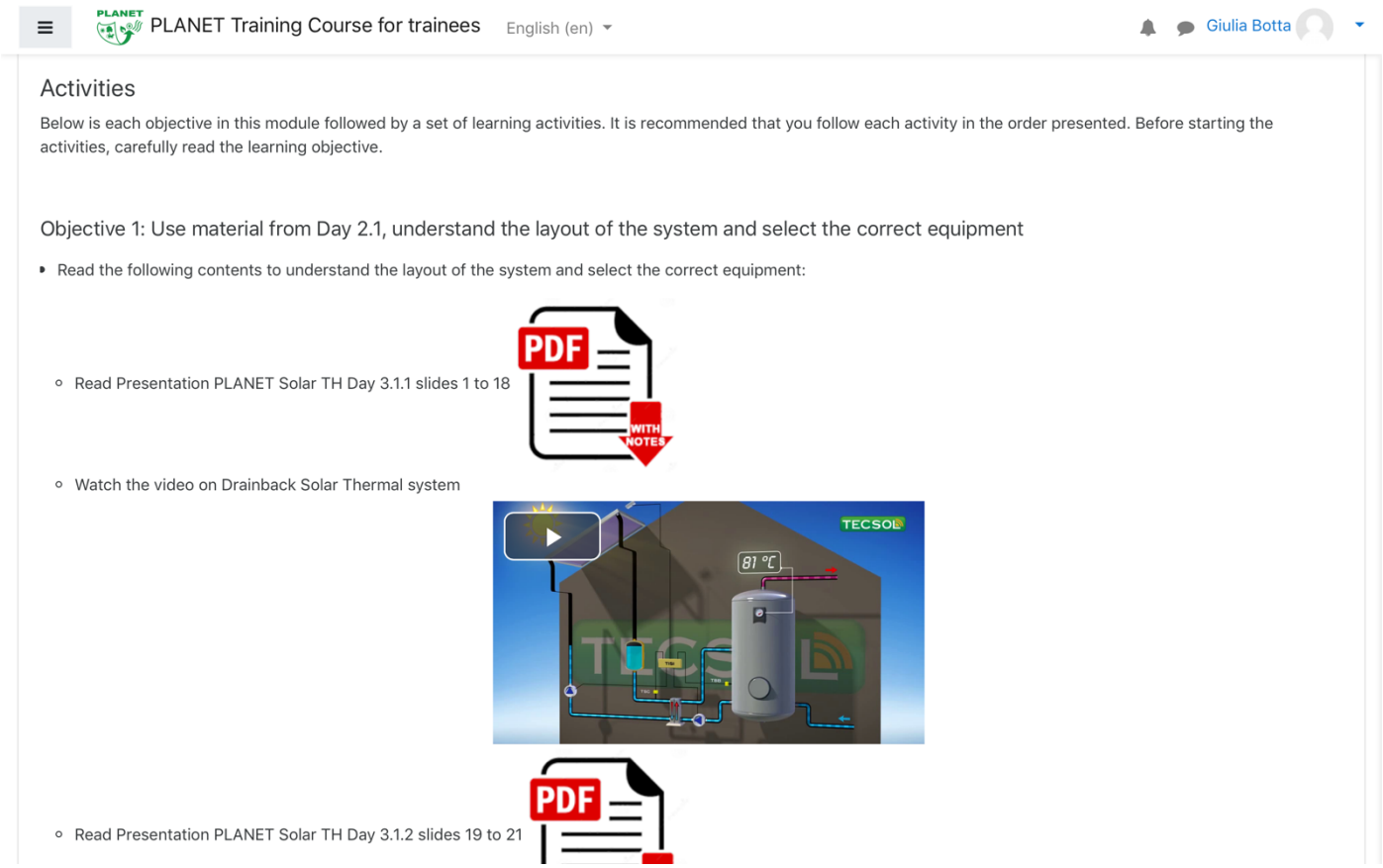
PLANET – PLan for Agriculture reNewable Energy Training



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PLANET – PLan for Agriculture reNewable Energy Training

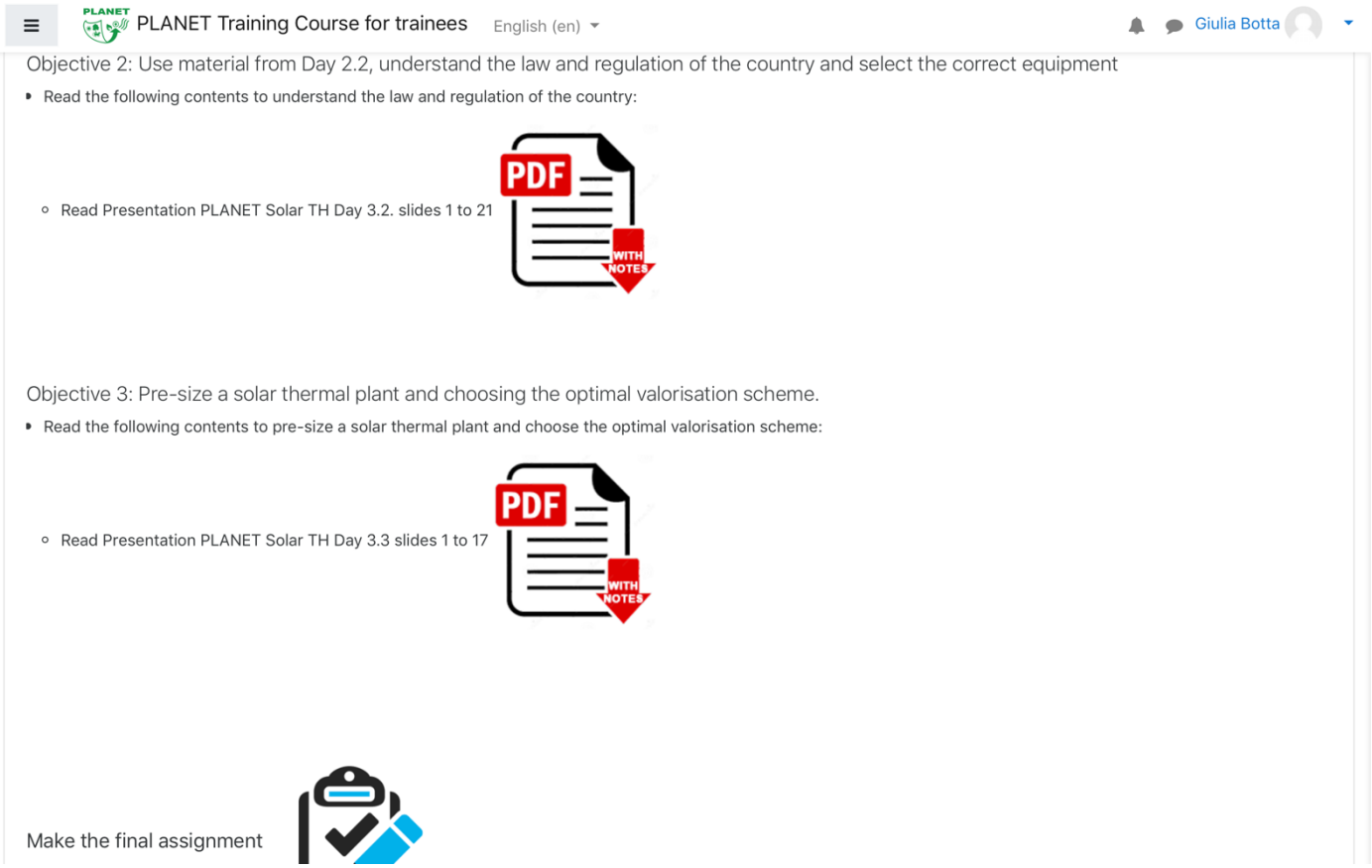
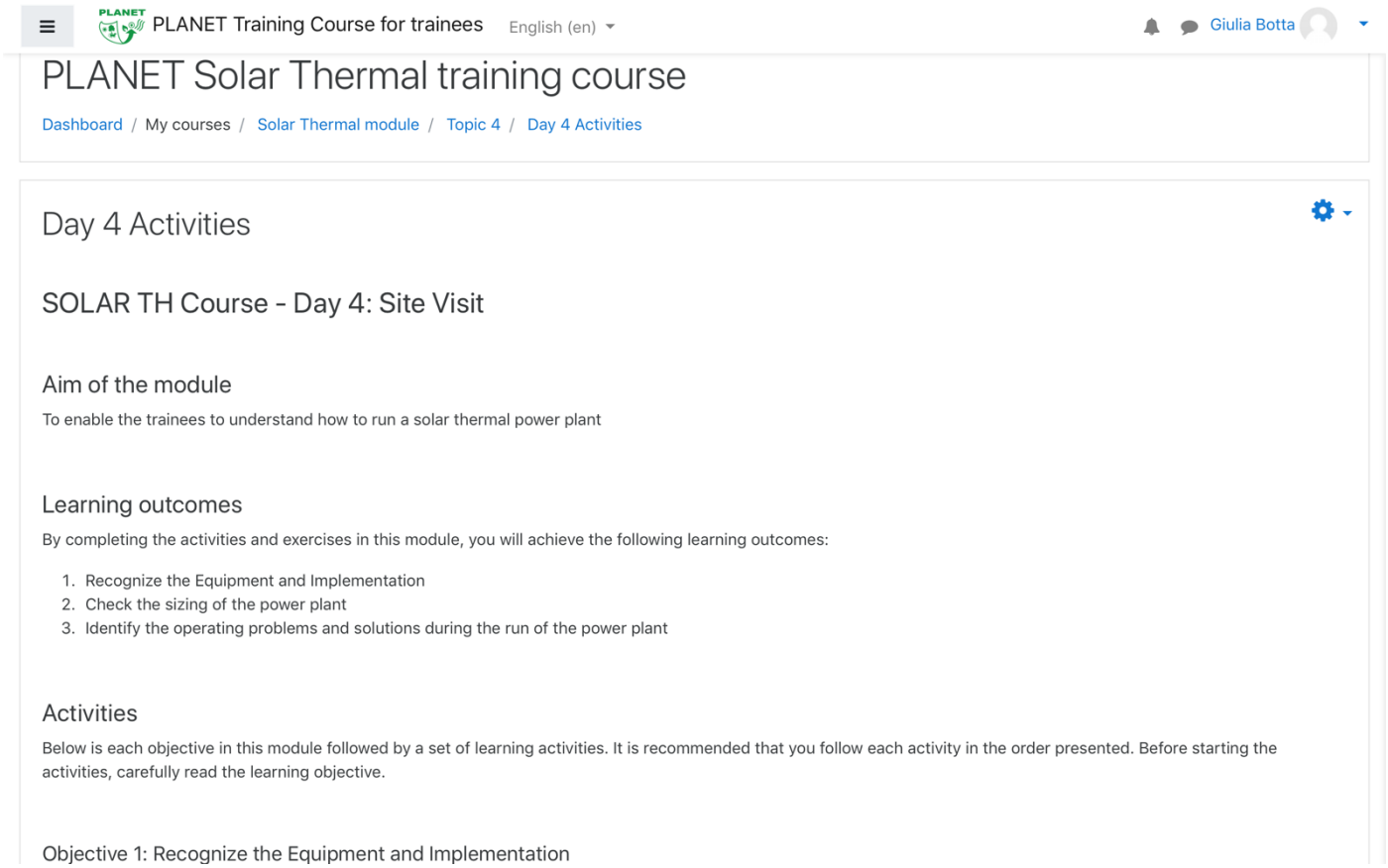


Figura 80

PLANET – PLan for Agriculture reNewable Energy Training

FOUR:



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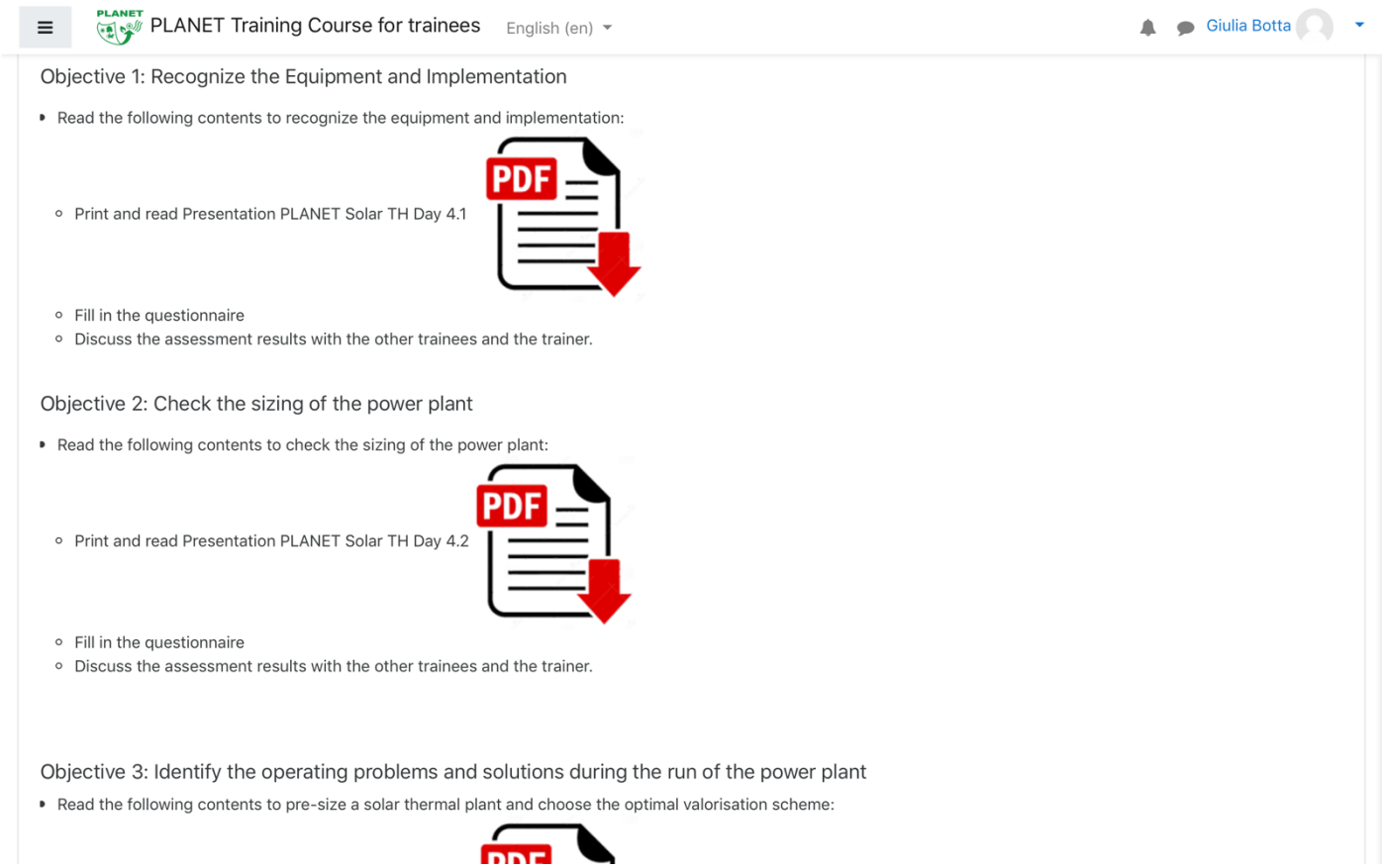
PLANET – PLan for Agriculture reNewable Energy Training



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PLANET – PLan for Agriculture reNewable Energy Training

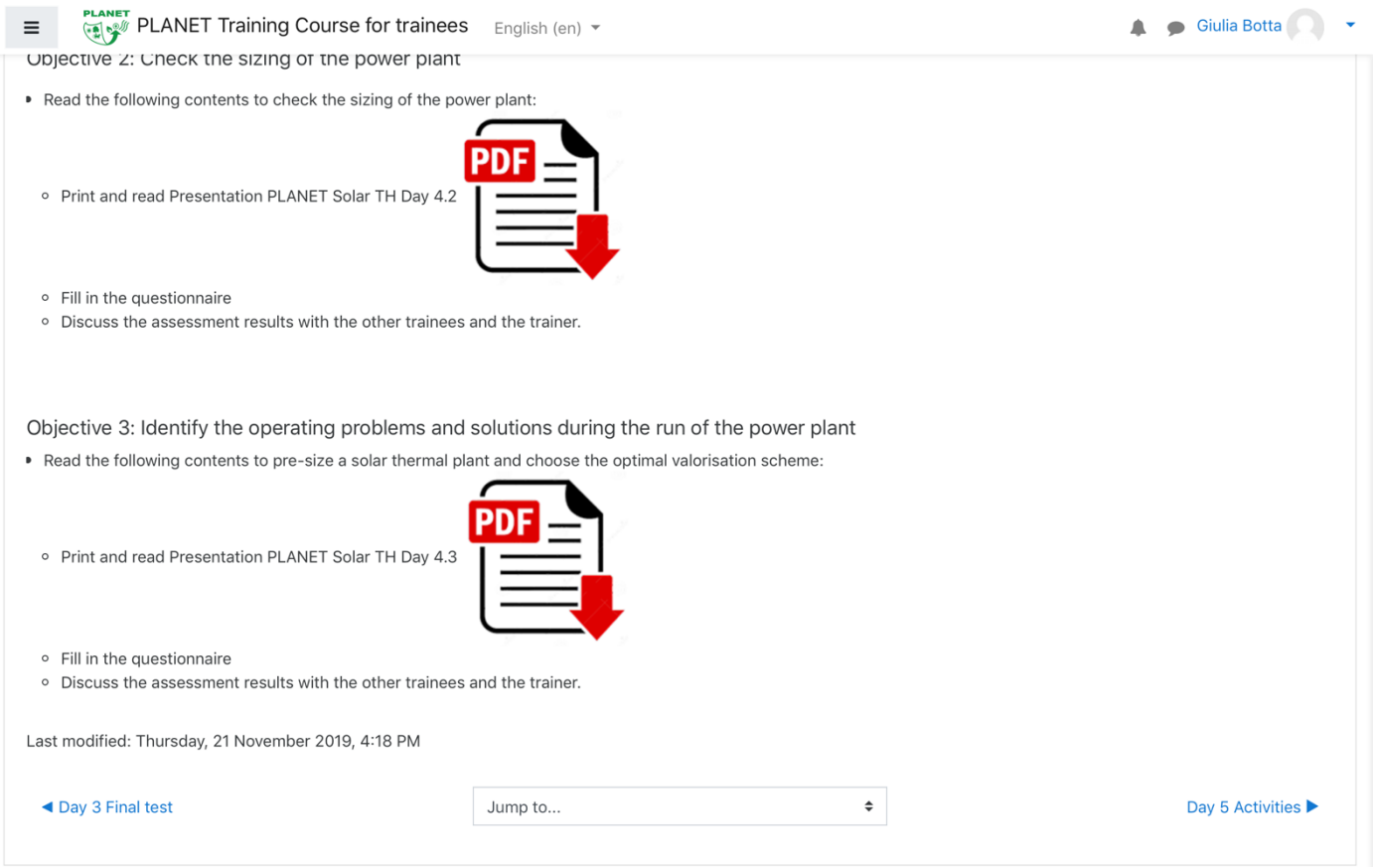

Figura 83

PLANET – PLan for Agriculture reNewable Energy Training

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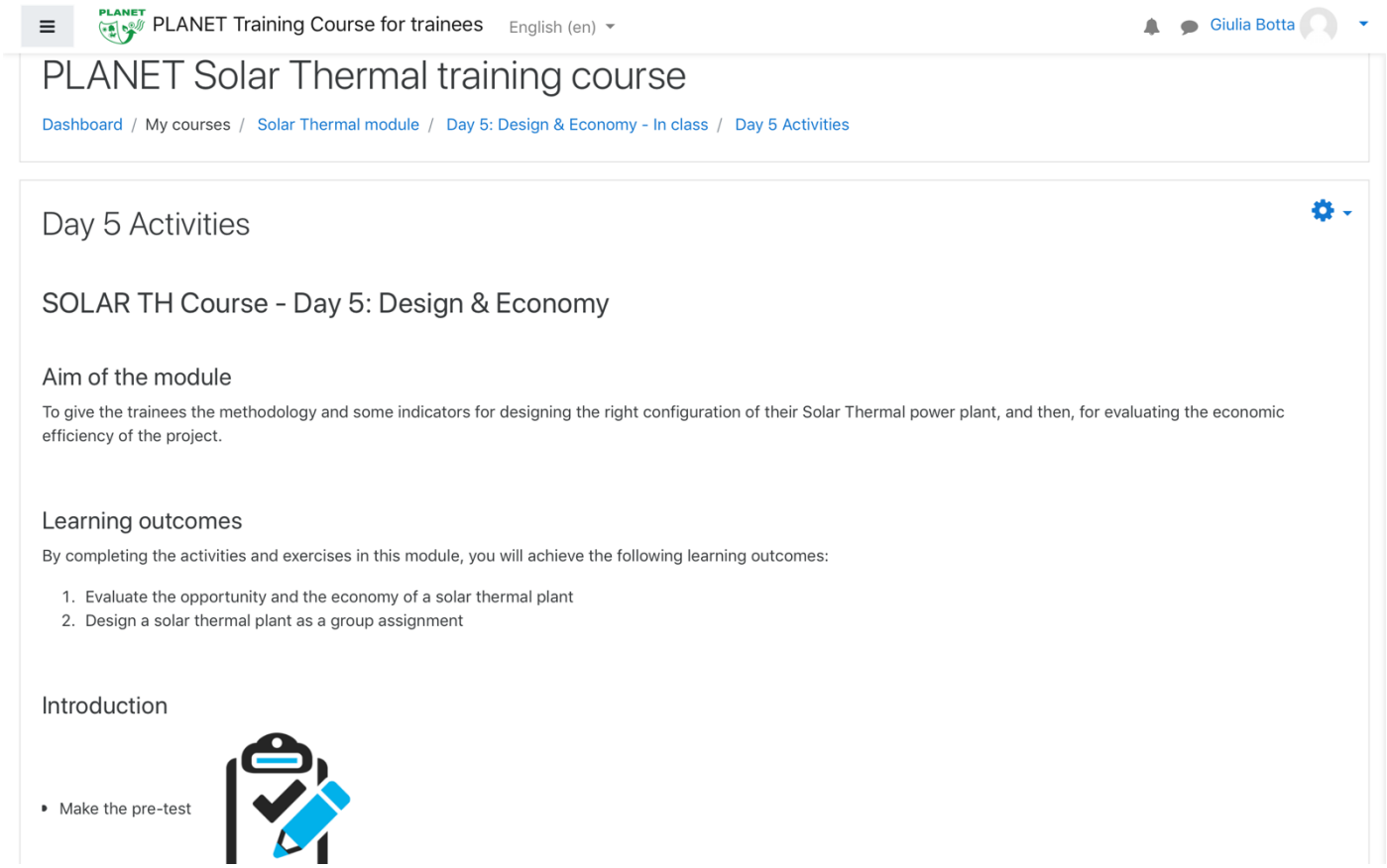
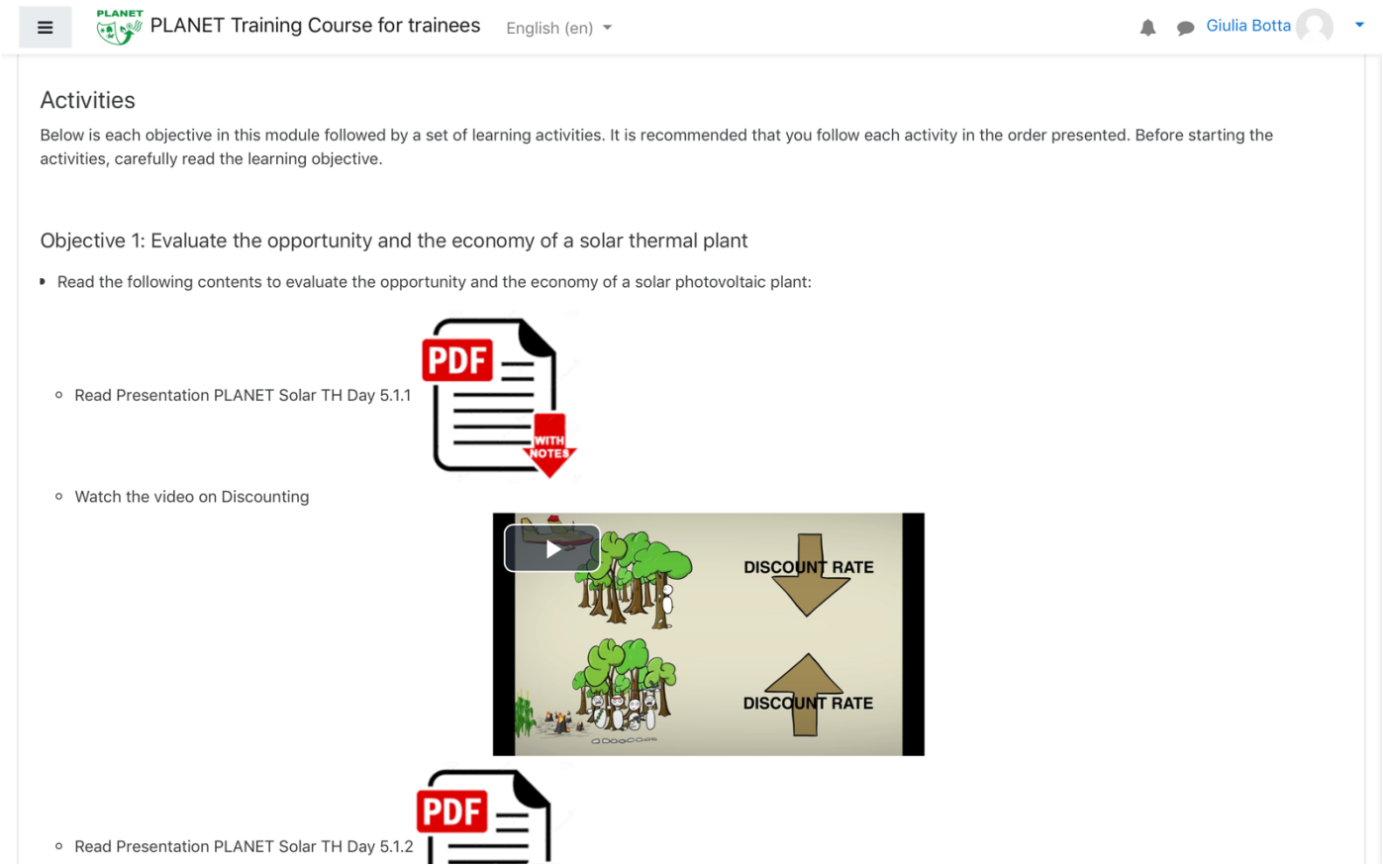


Figura 84

PLANET – PLan for Agriculture reNewable Energy Training



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PLANET – PLan for Agriculture reNewable Energy Training

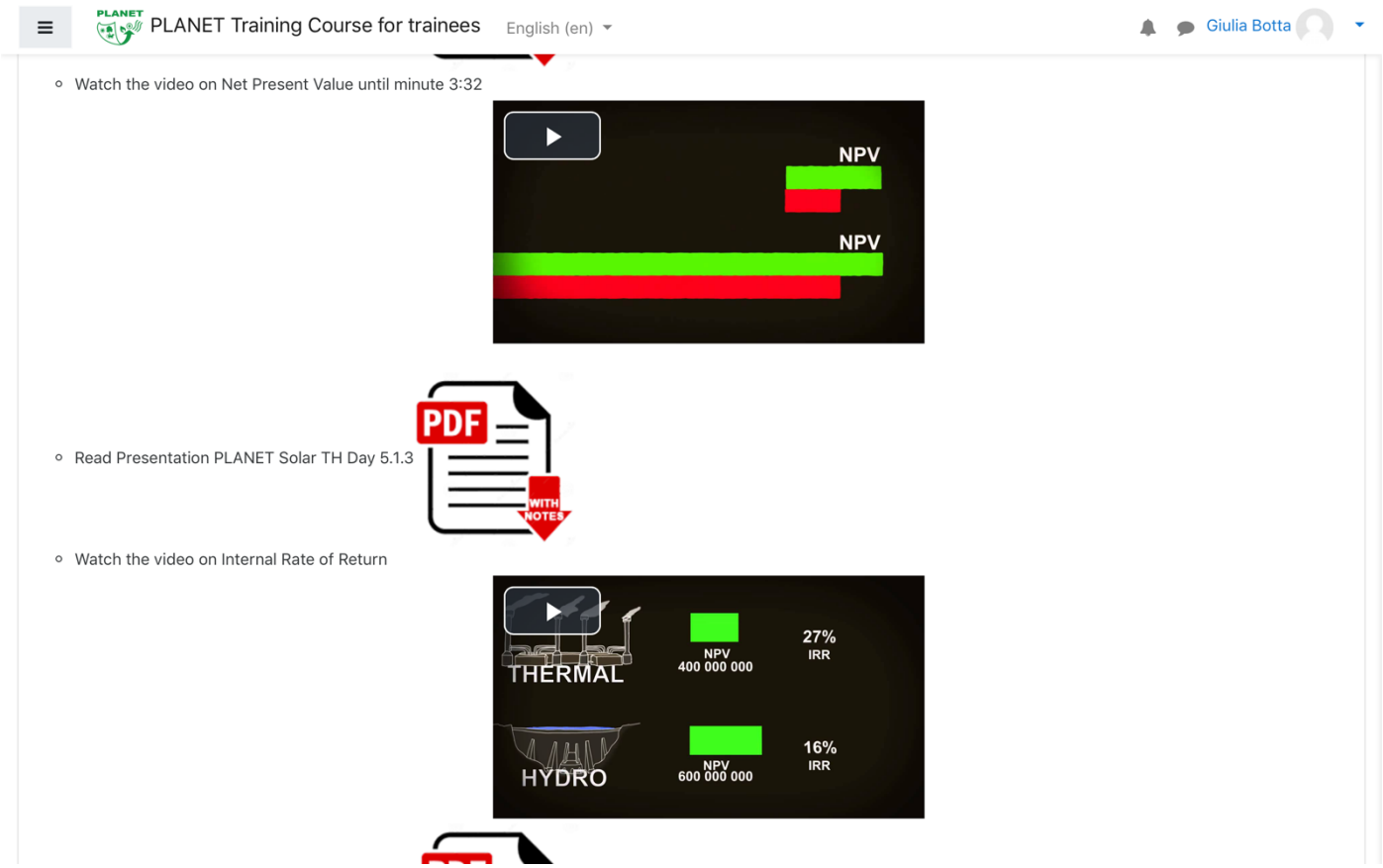
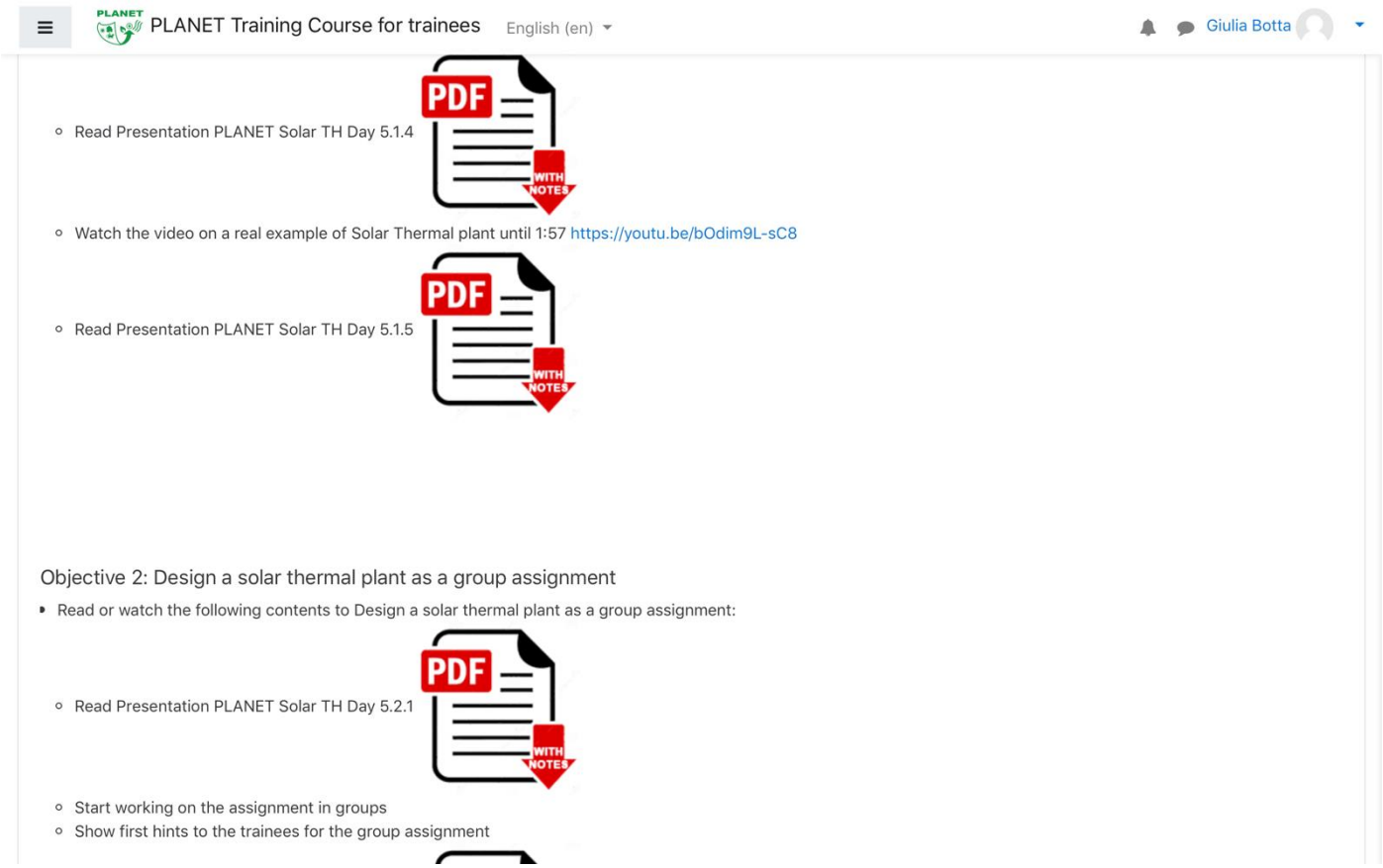


Figura 86

PLANET – PLan for Agriculture reNewable Energy Training



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PLANET – PLan for Agriculture reNewable Energy Training

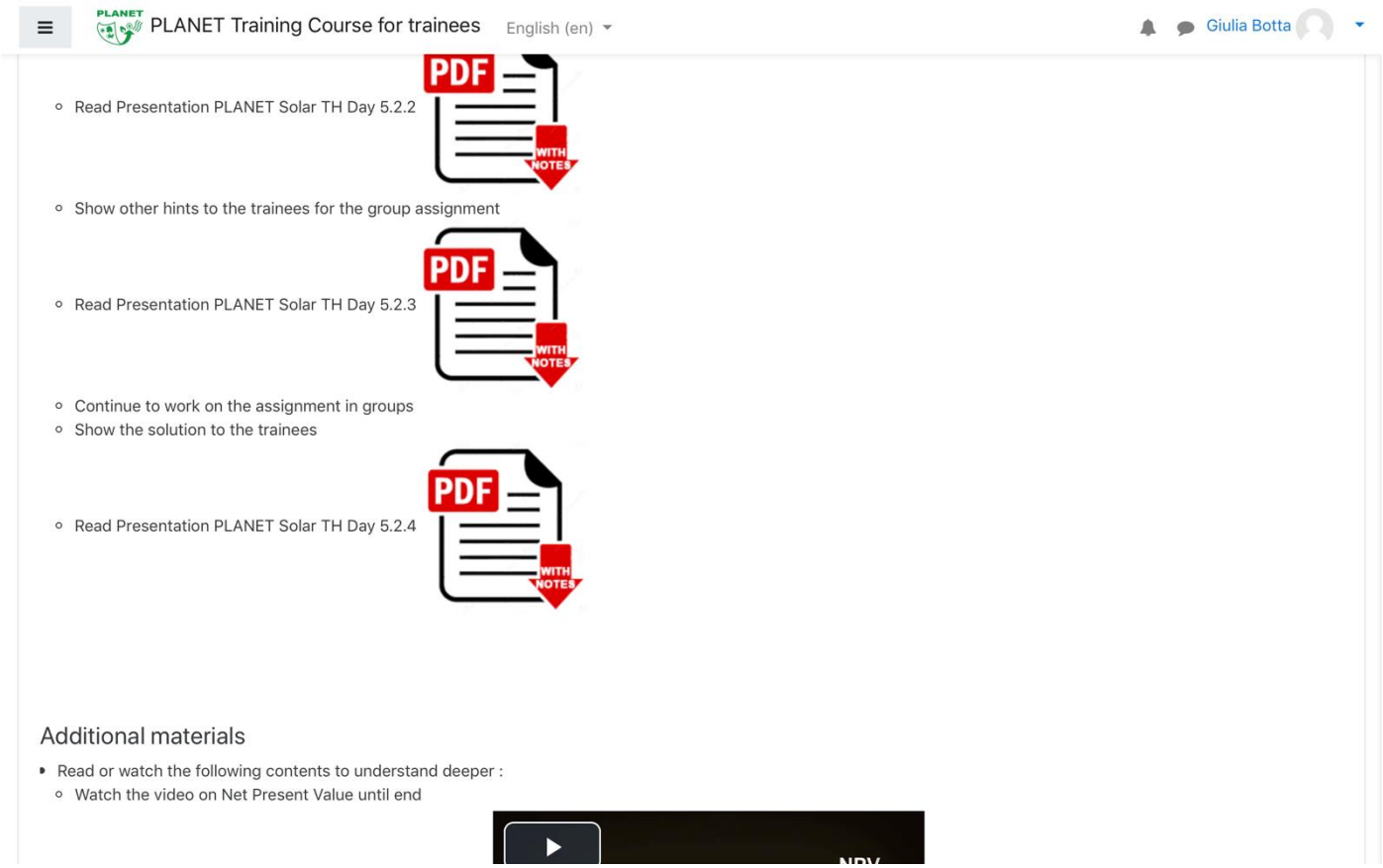

Figura 88

PLANET – PLan for Agriculture reNewable Energy Training

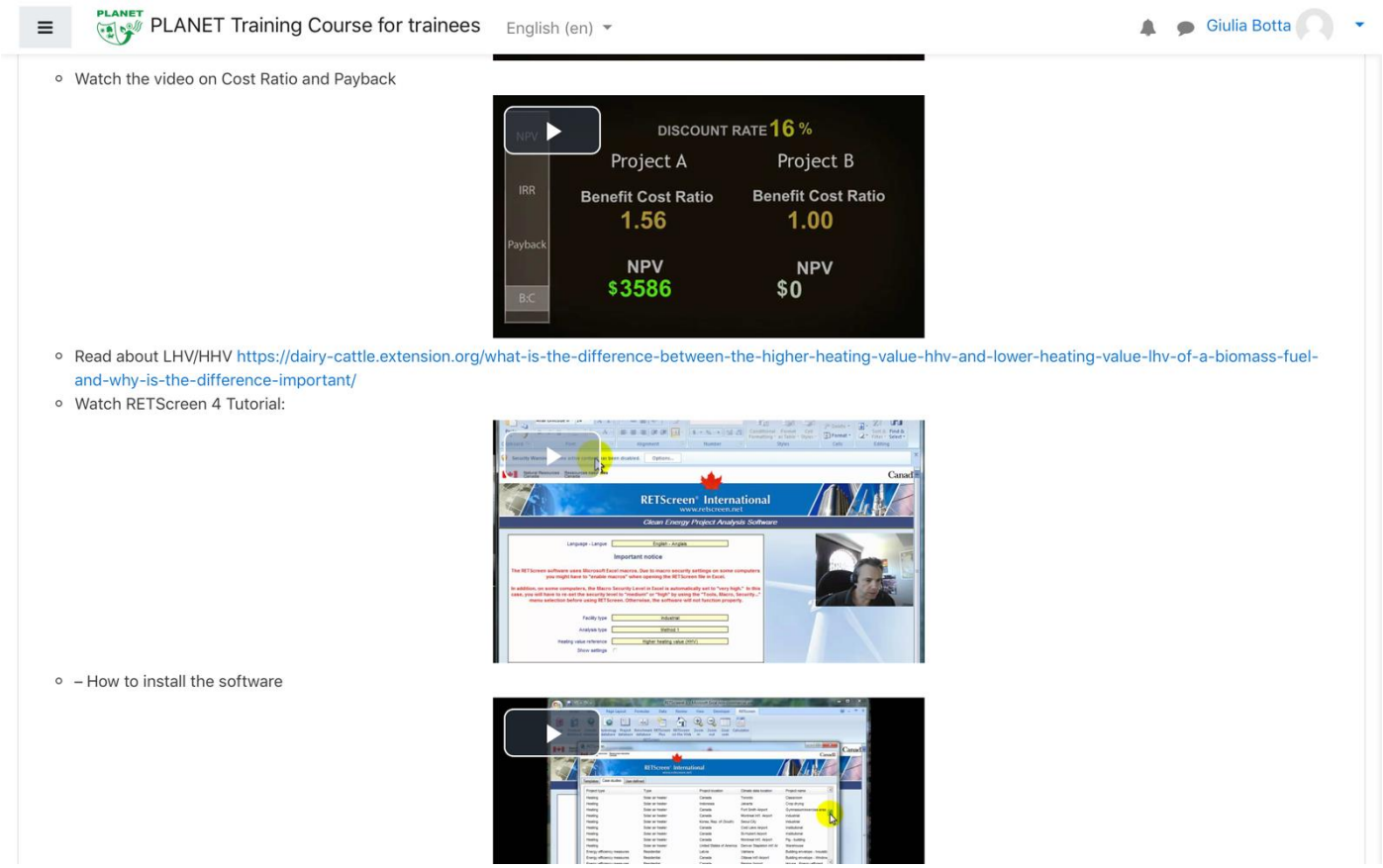

Figura 89

PLANET – PLan for Agriculture reNewable Energy Training

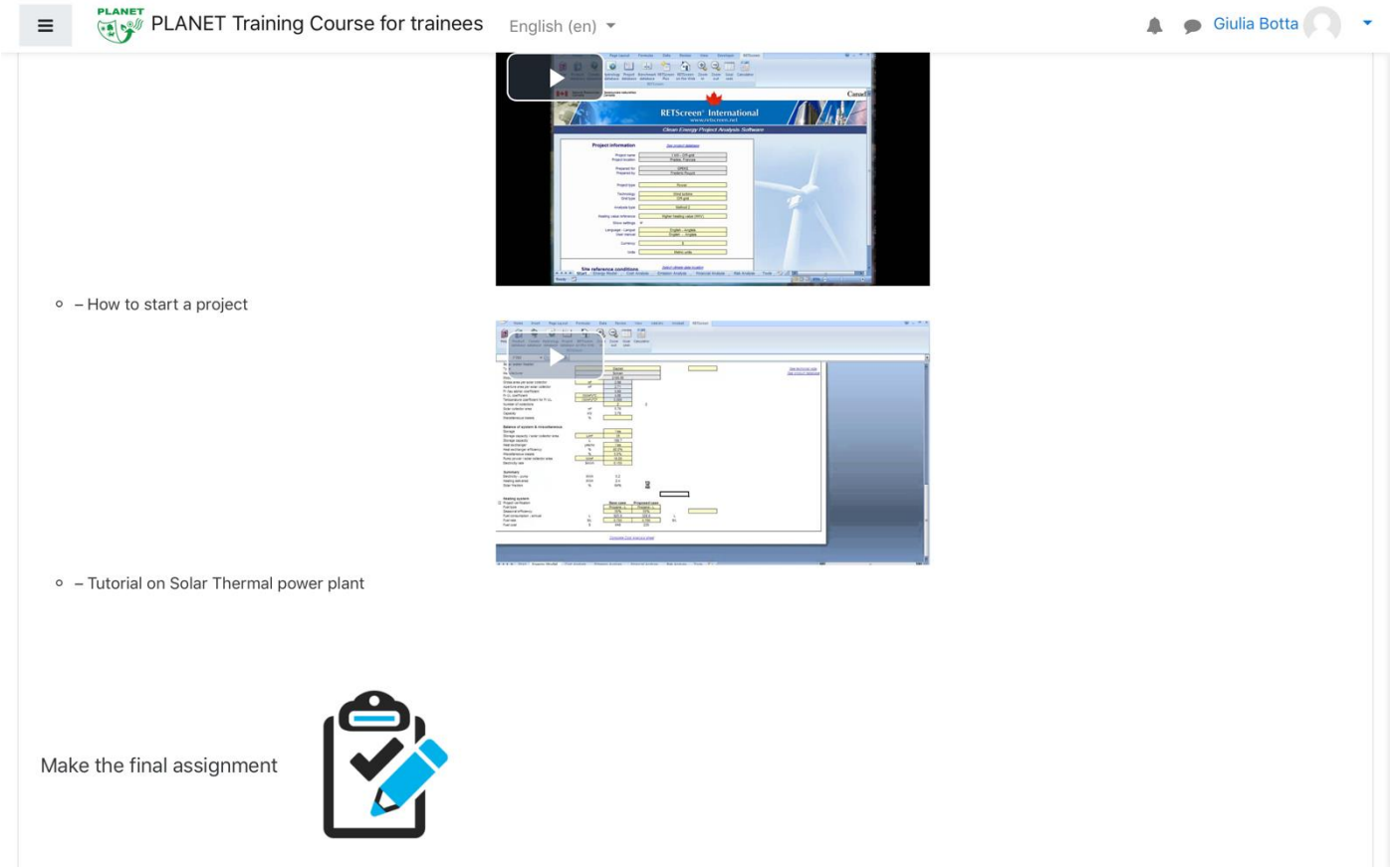

Figura 90

PLANET – PLan for Agriculture reNewable Energy Training

SIX:

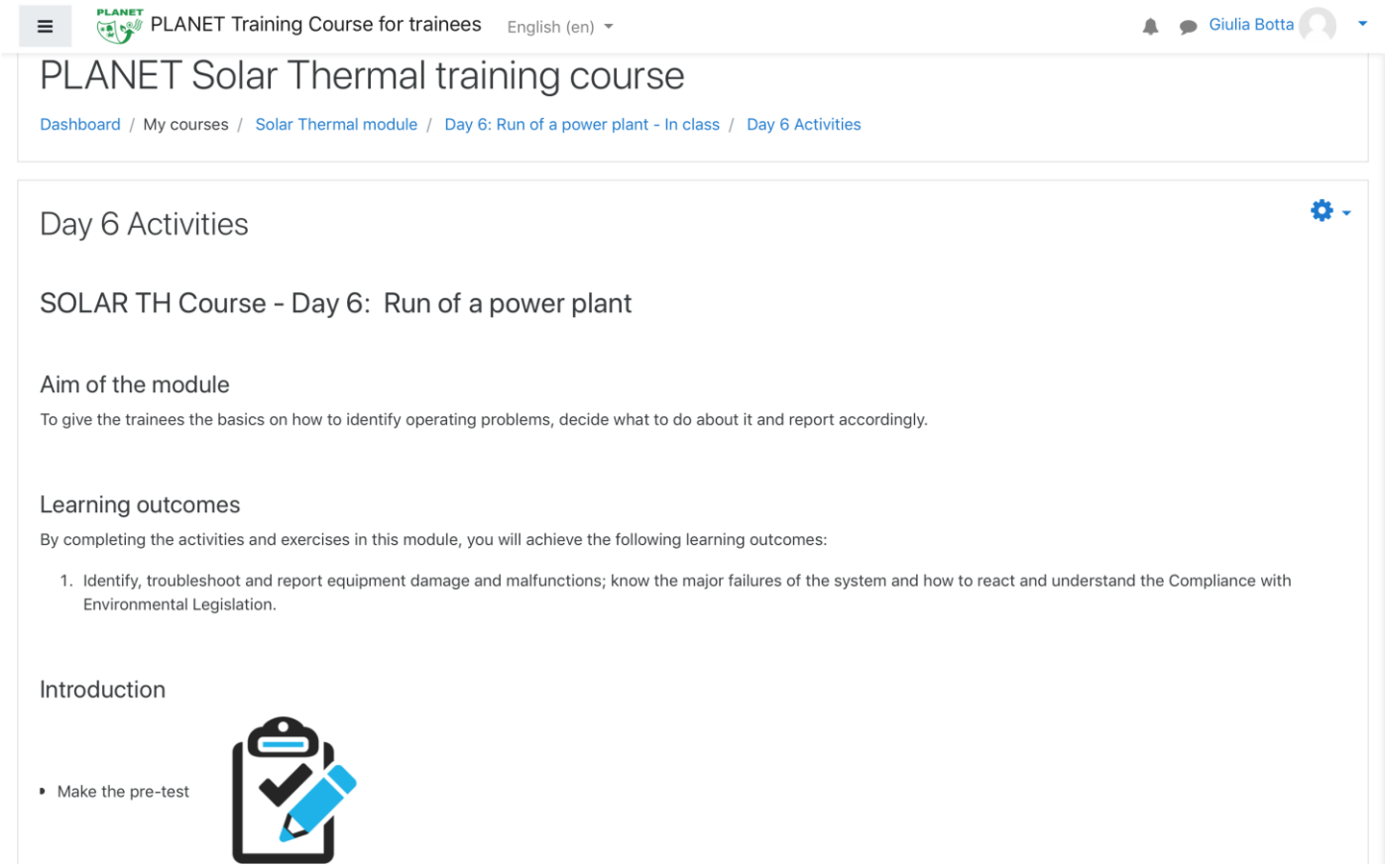

Figura 91

PLANET – PLan for Agriculture reNewable Energy Training

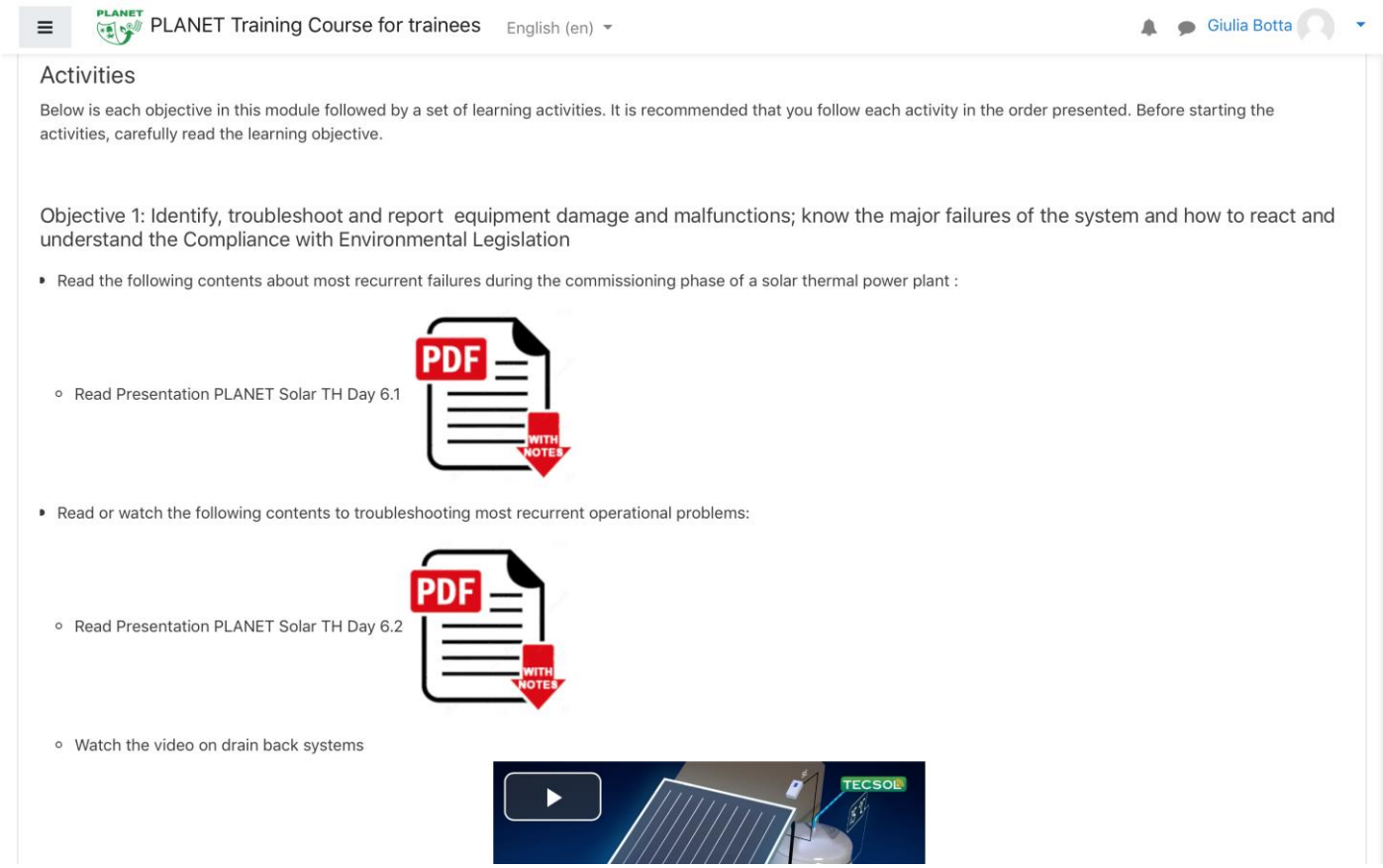

Figura 92

PLANET – PLan for Agriculture reNewable Energy Training

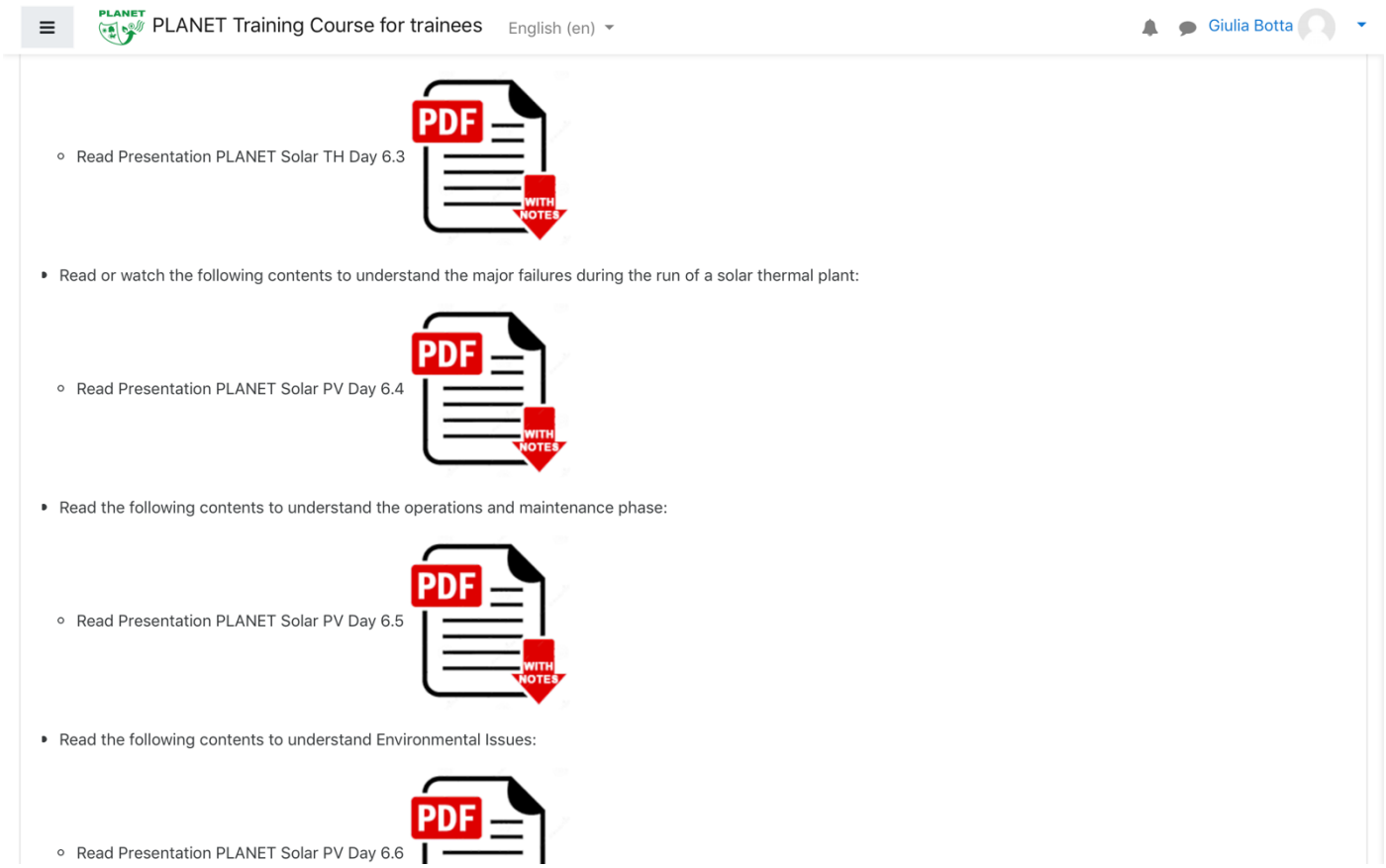

Figura 93

PLANET – PLan for Agriculture reNewable Energy Training

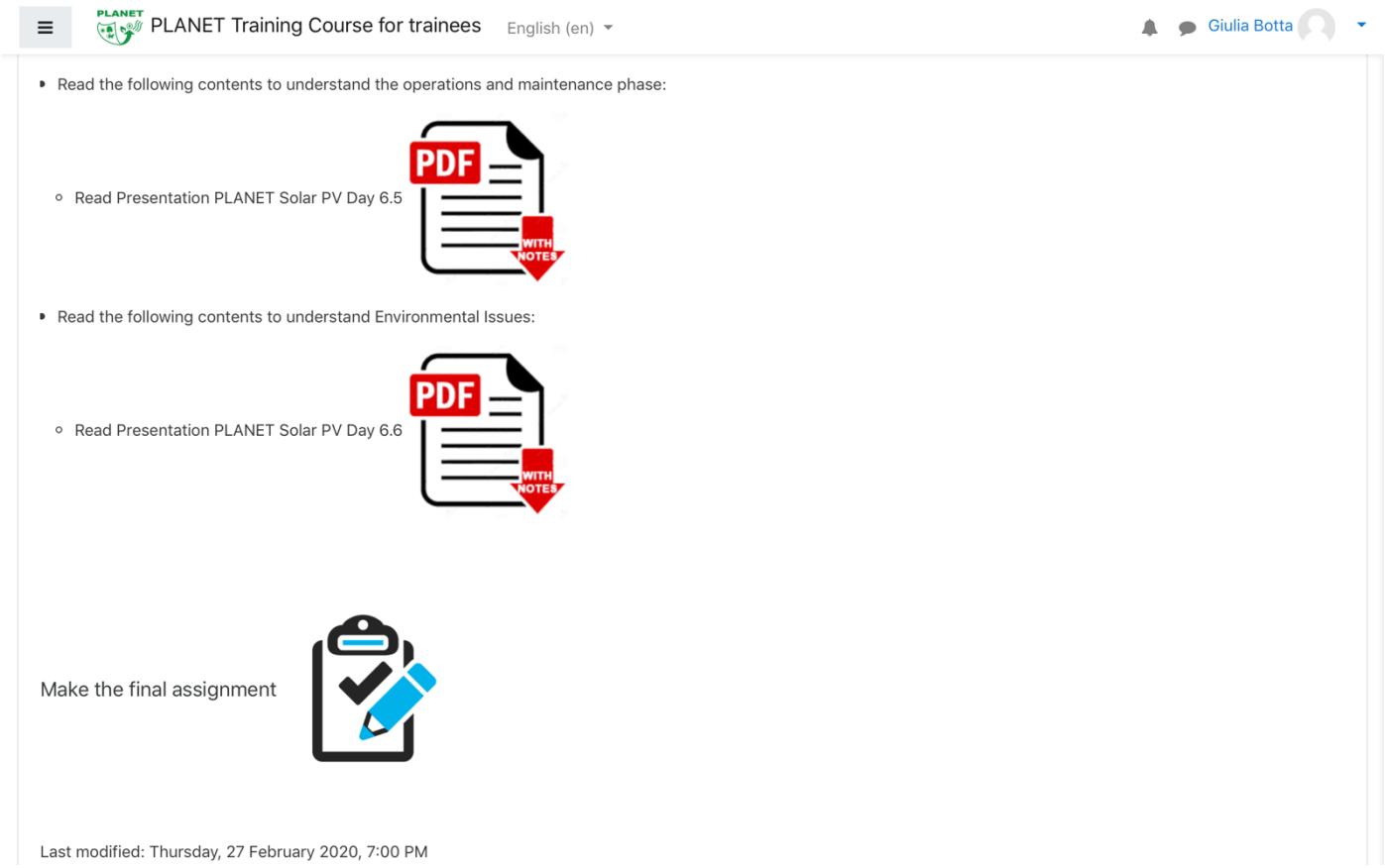

Figura 94

PLANET – PLan for Agriculture reNewable Energy Training

PLANET Biomass training course

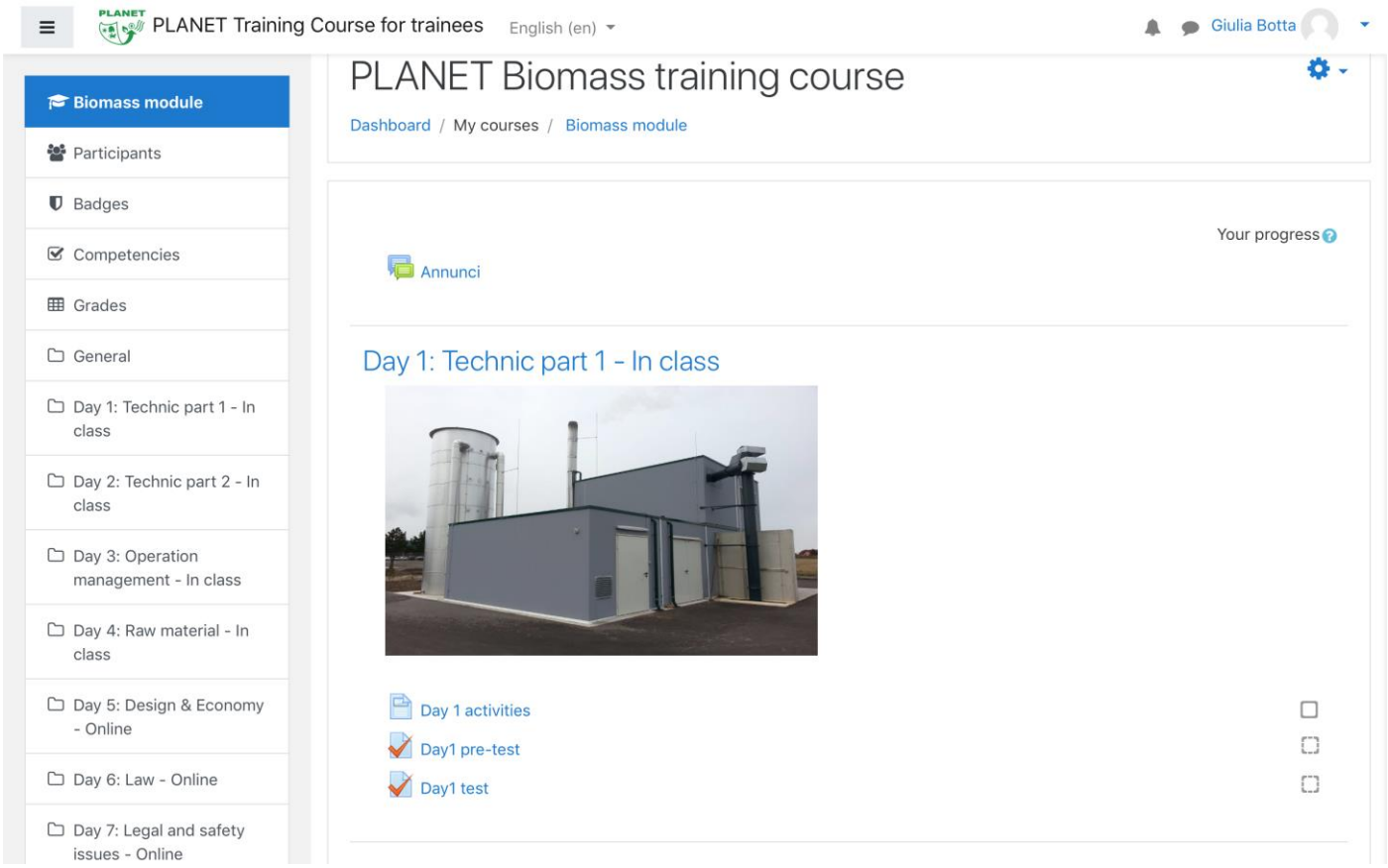

Figura 96

PLANET – PLan for Agriculture reNewable Energy Training

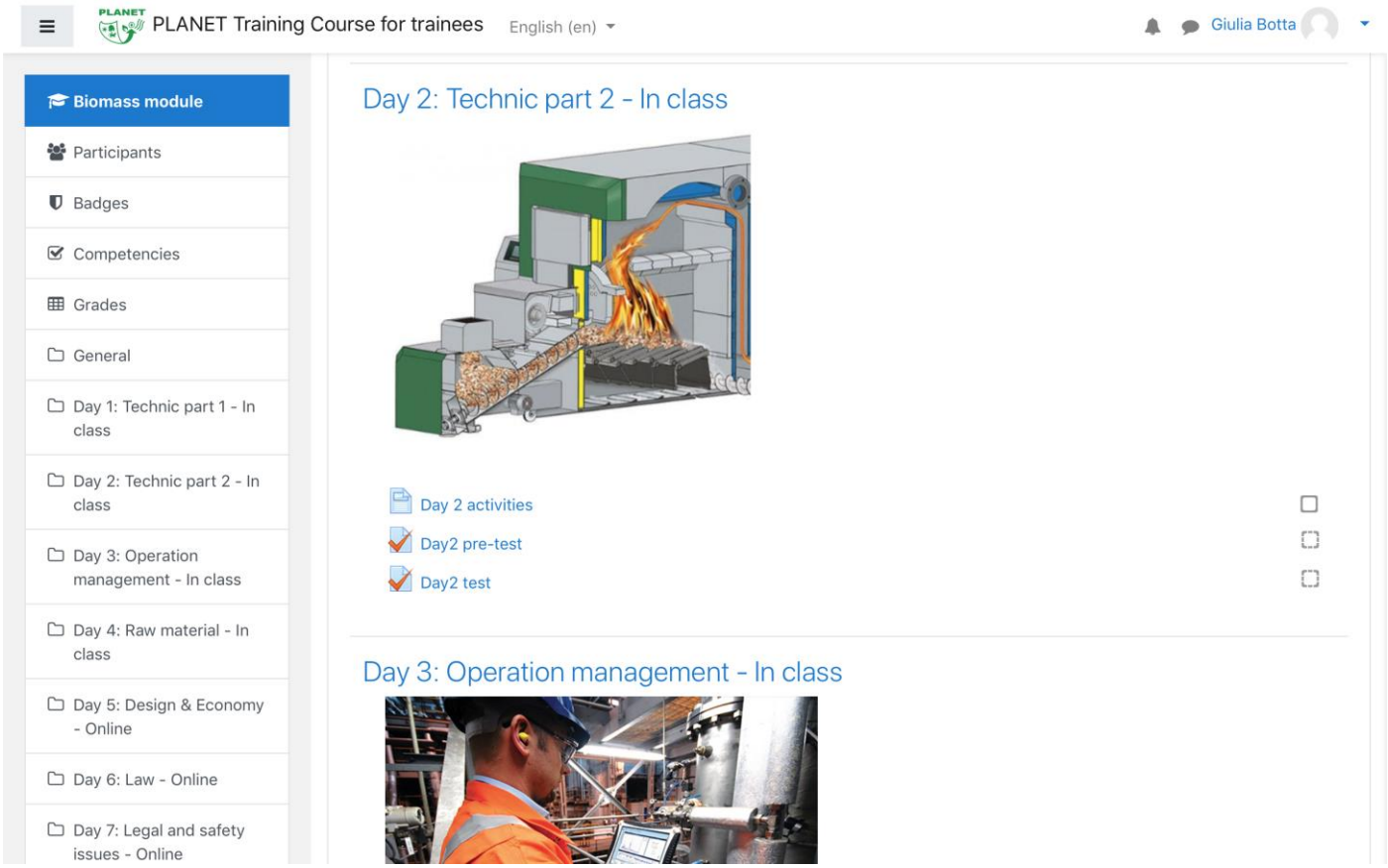

Figura 97

PLANET – PLan for Agriculture reNewable Energy Training

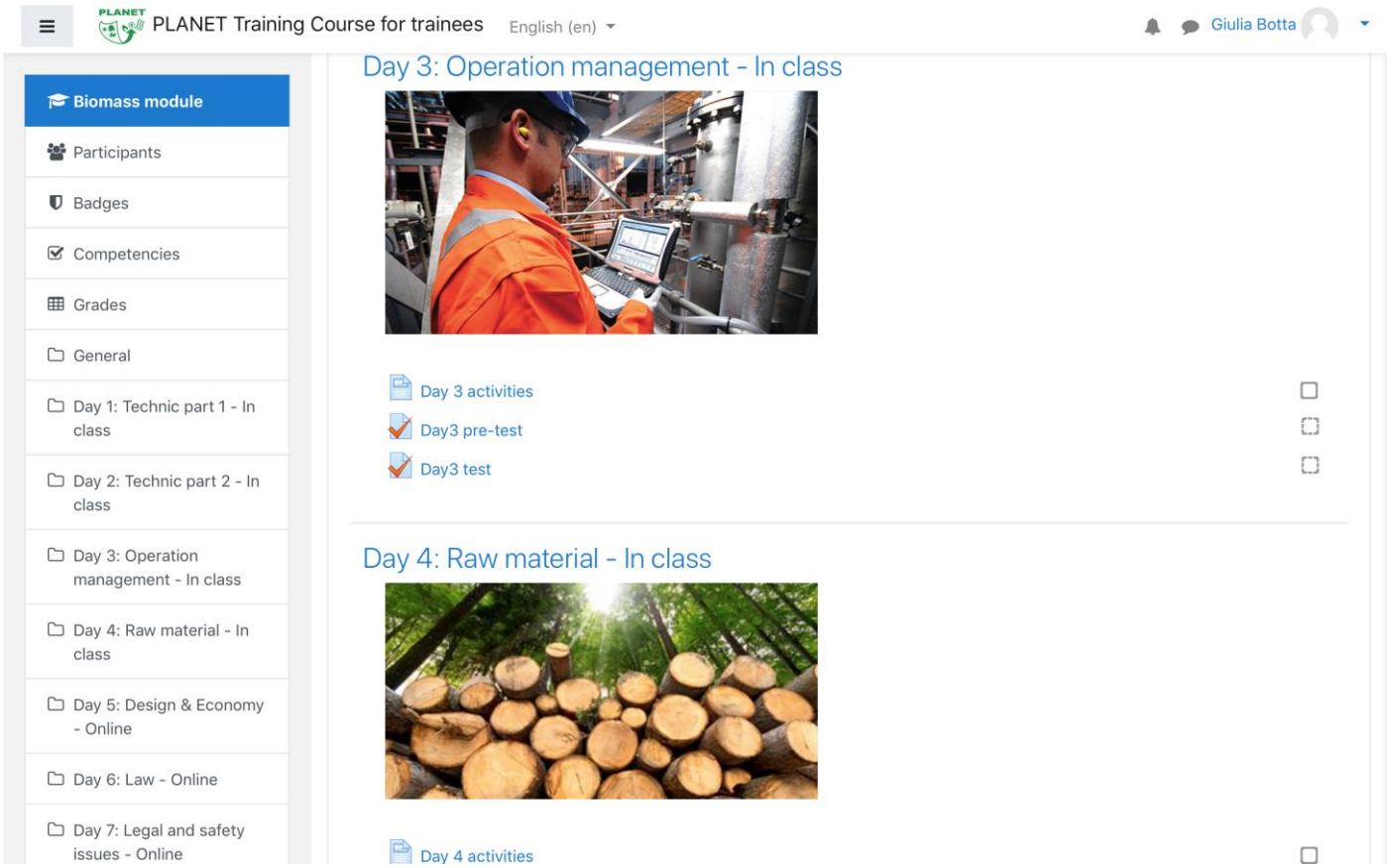

Figura 98

PLANET – PLan for Agriculture reNewable Energy Training

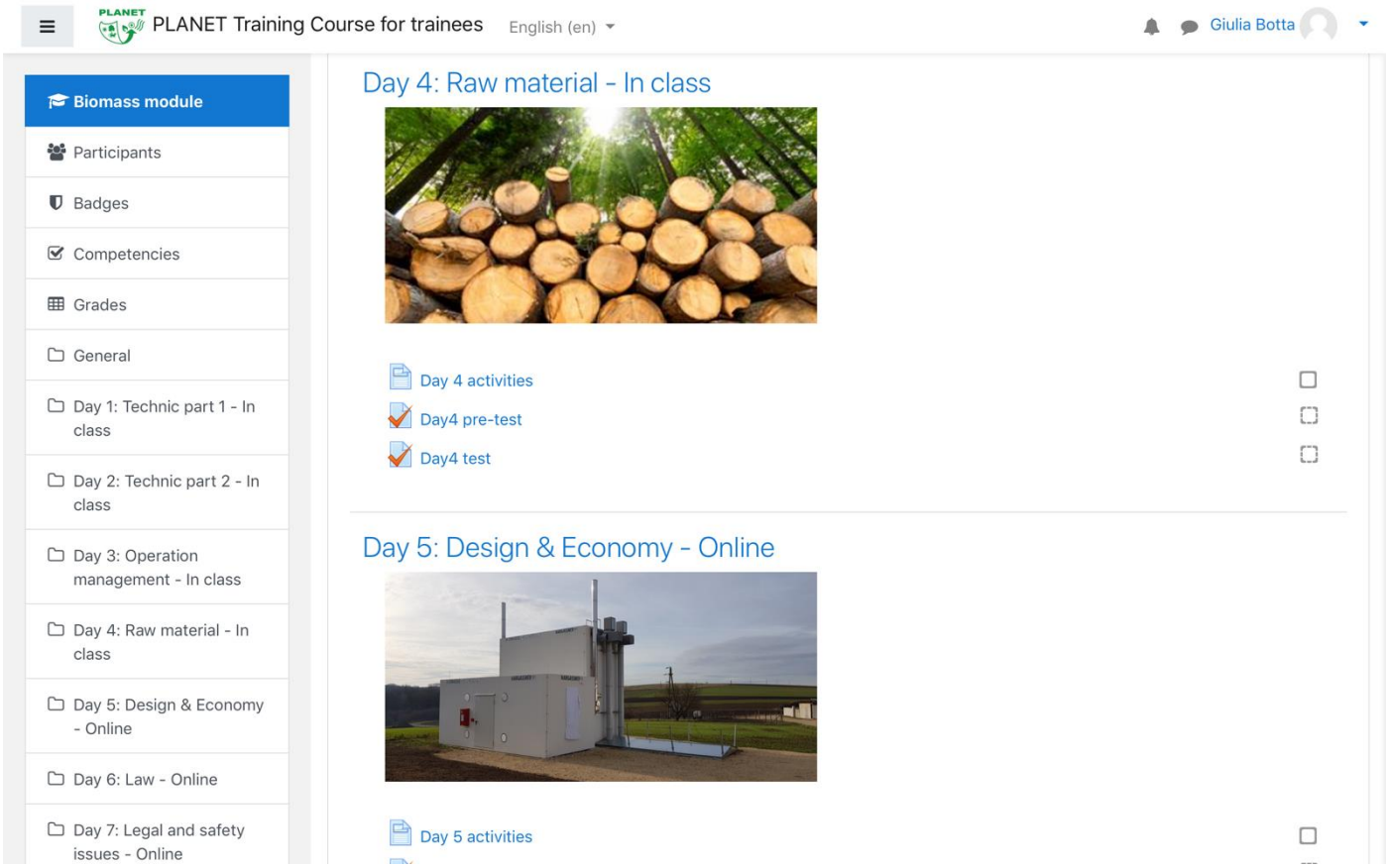

Figura 99

PLANET – PLan for Agriculture reNewable Energy Training

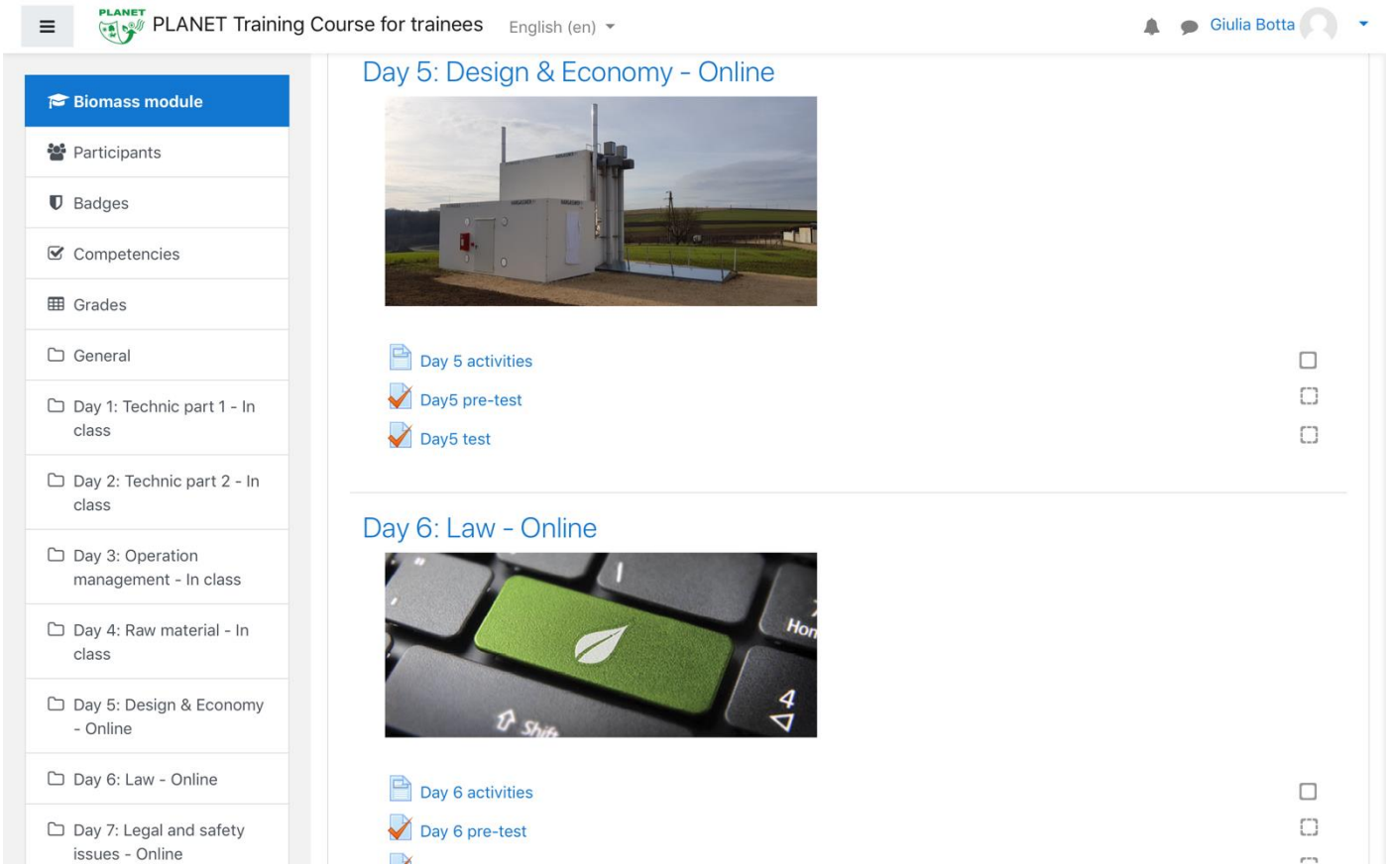

Figura 100

PLANET – PLan for Agriculture reNewable Energy Training

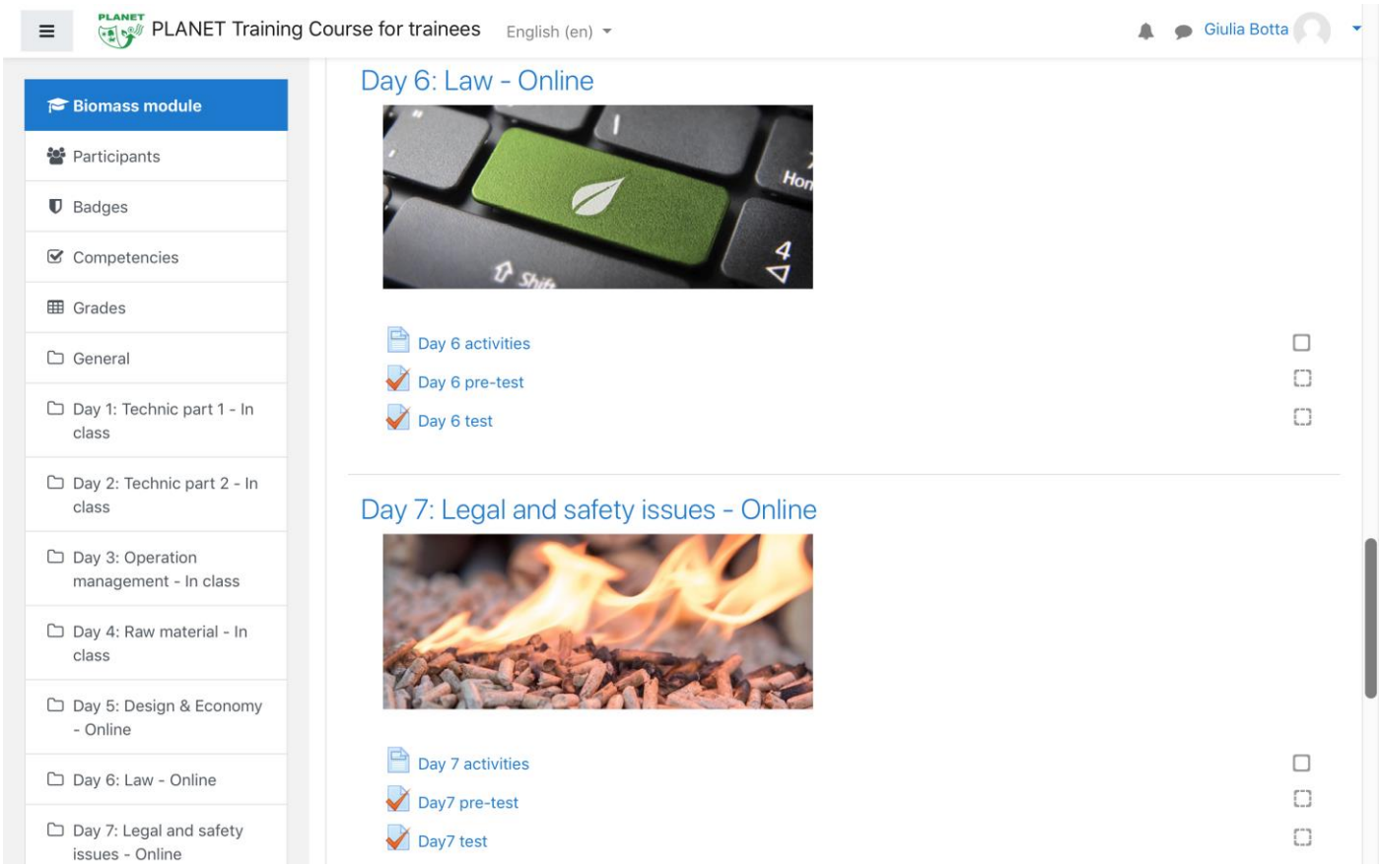

Figura 101

PLANET – PLan for Agriculture reNewable Energy Training

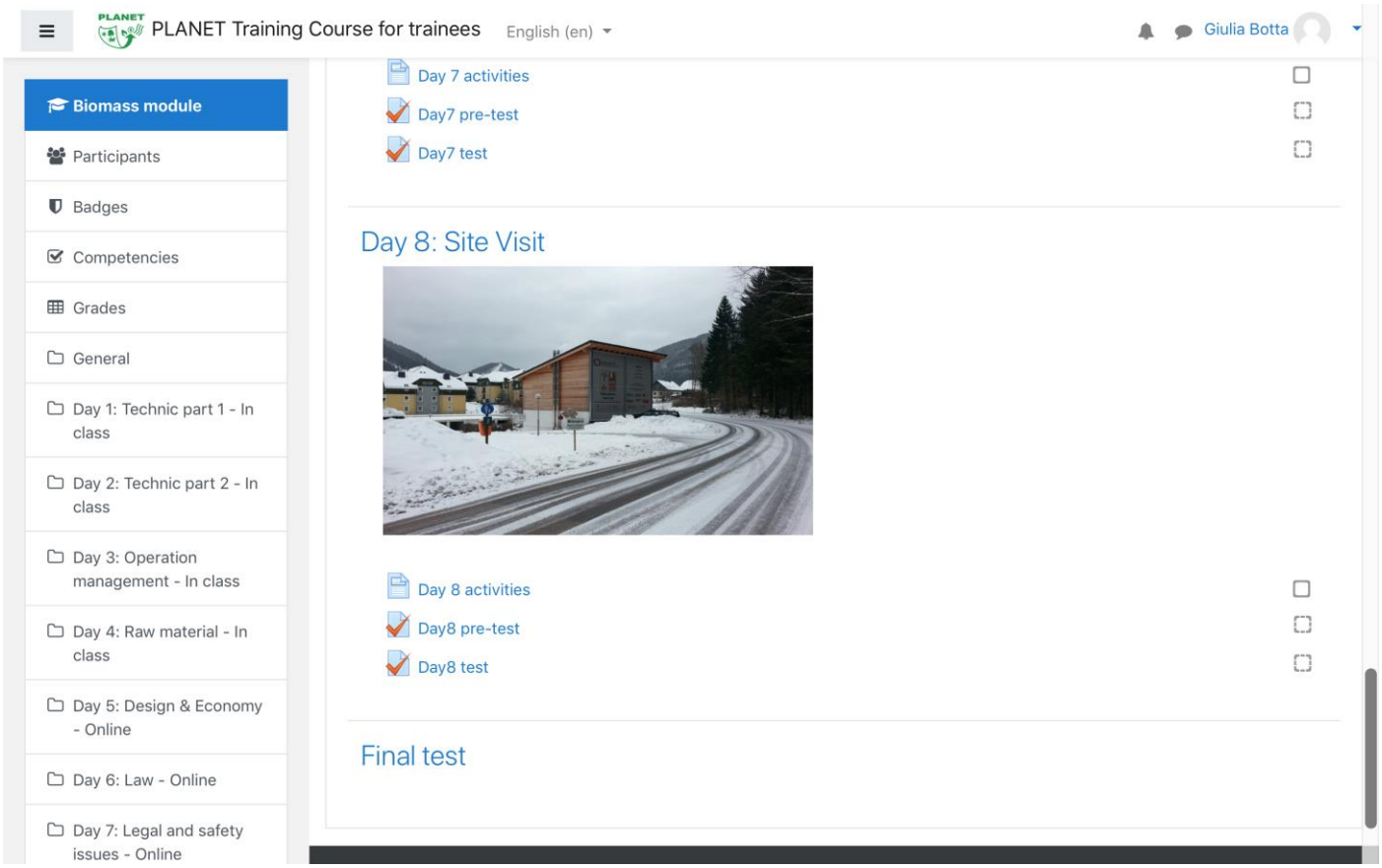

Figura 102

PLANET – PLan for Agriculture reNewable Energy Training

DAYS ACTIVITIES

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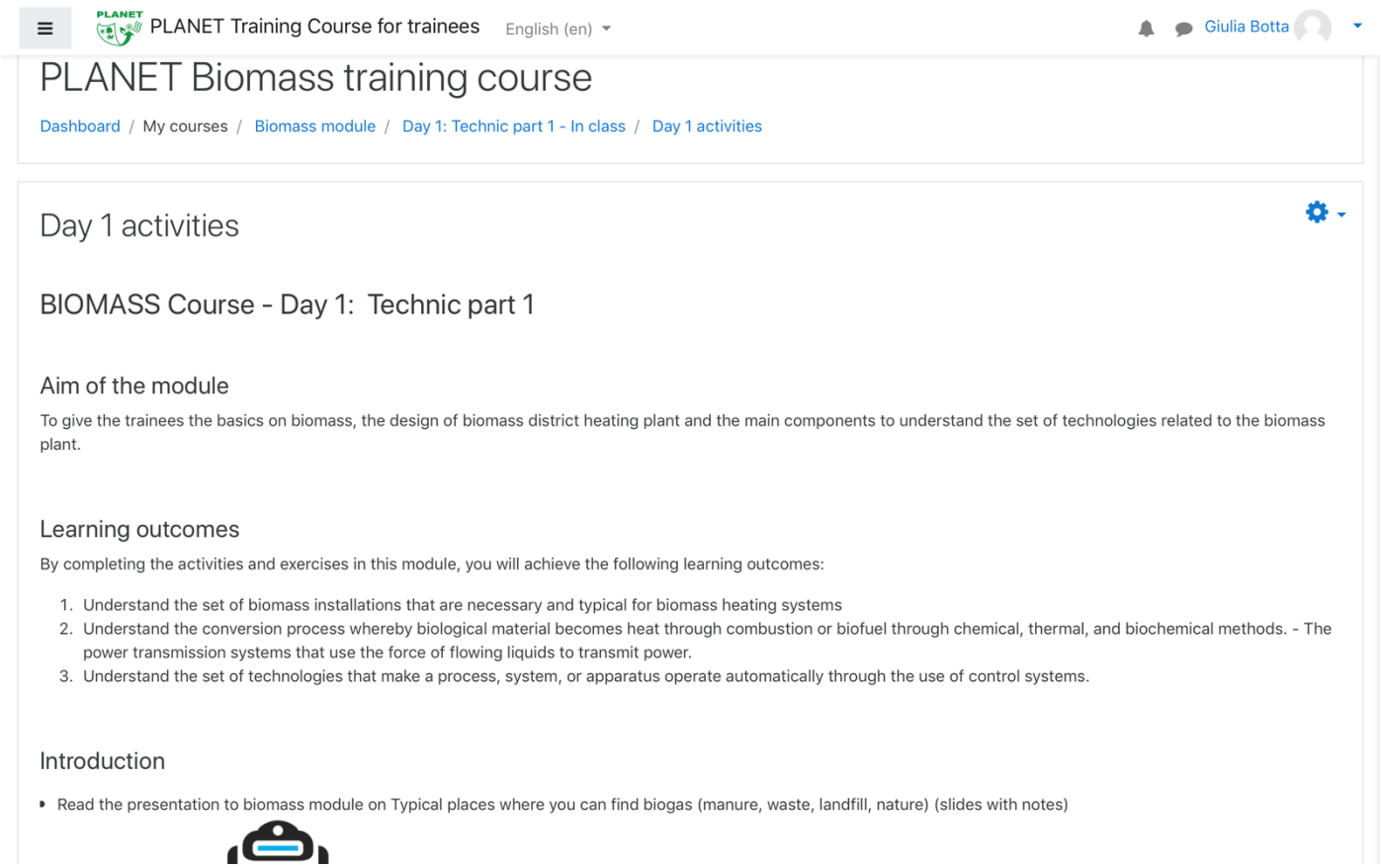


Figura 103

PLANET – PLan for Agriculture reNewable Energy Training

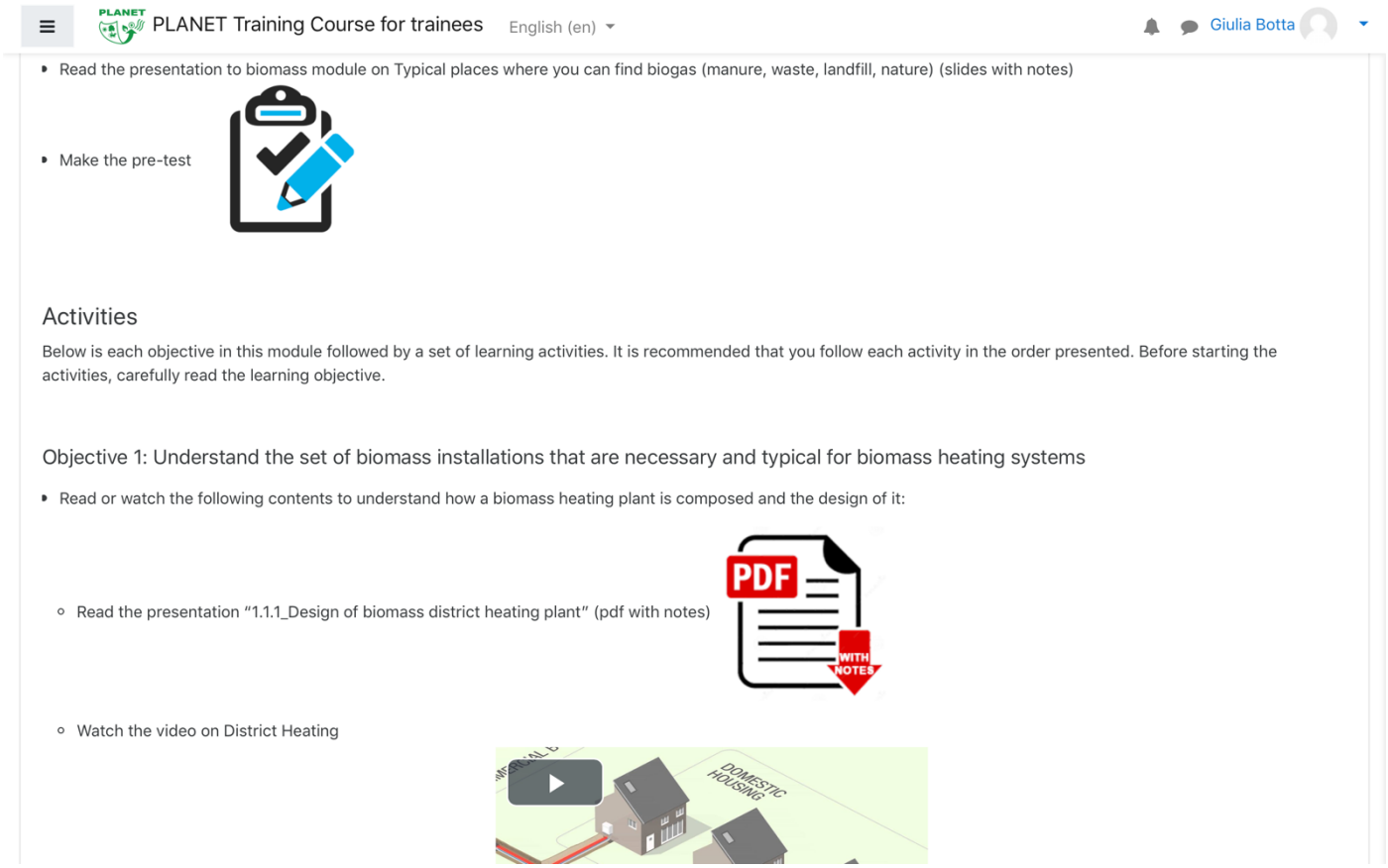


Figura 104

PLANET – PLan for Agriculture reNewable Energy Training

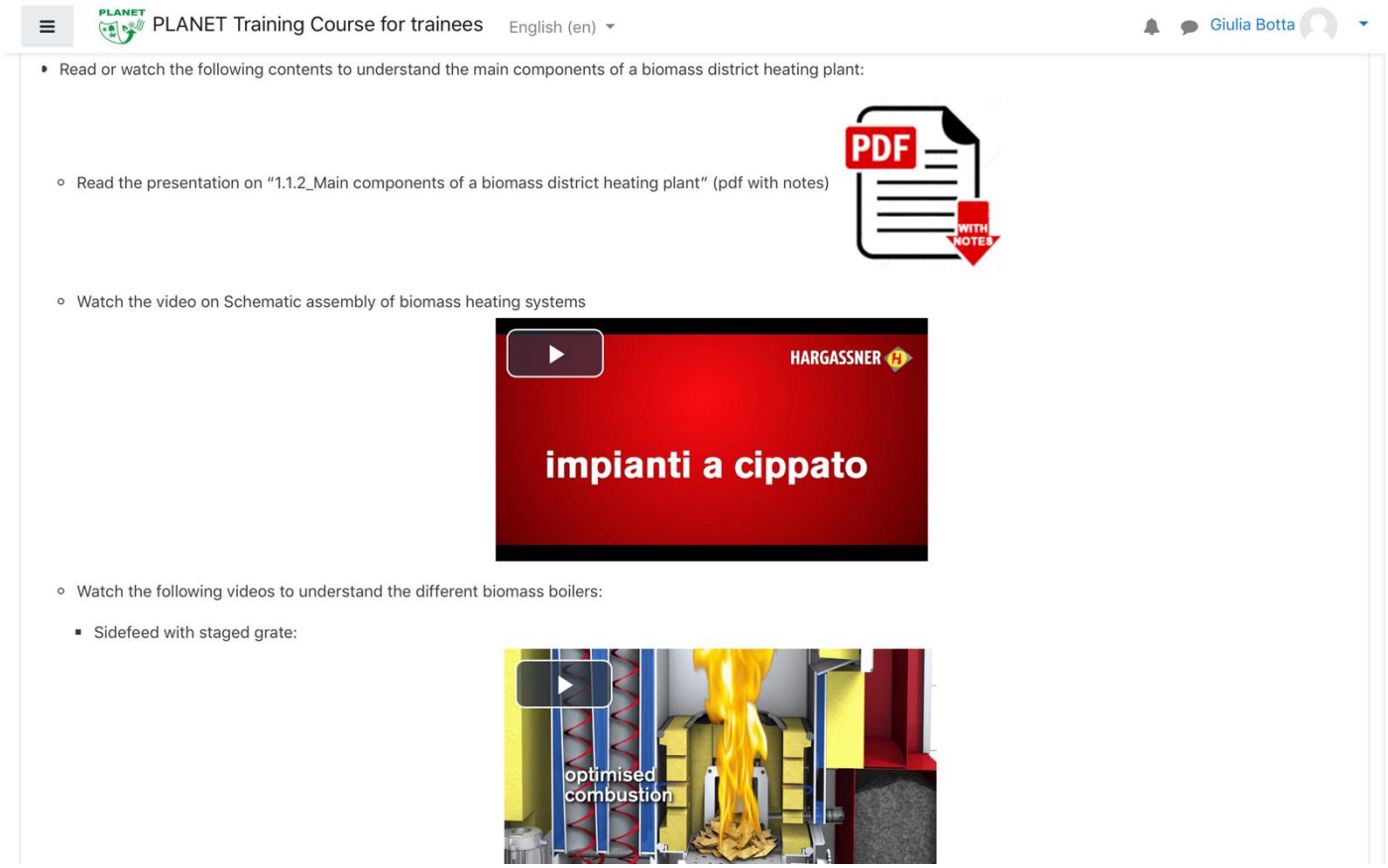


Figura 104

PLANET – PLan for Agriculture reNewable Energy Training

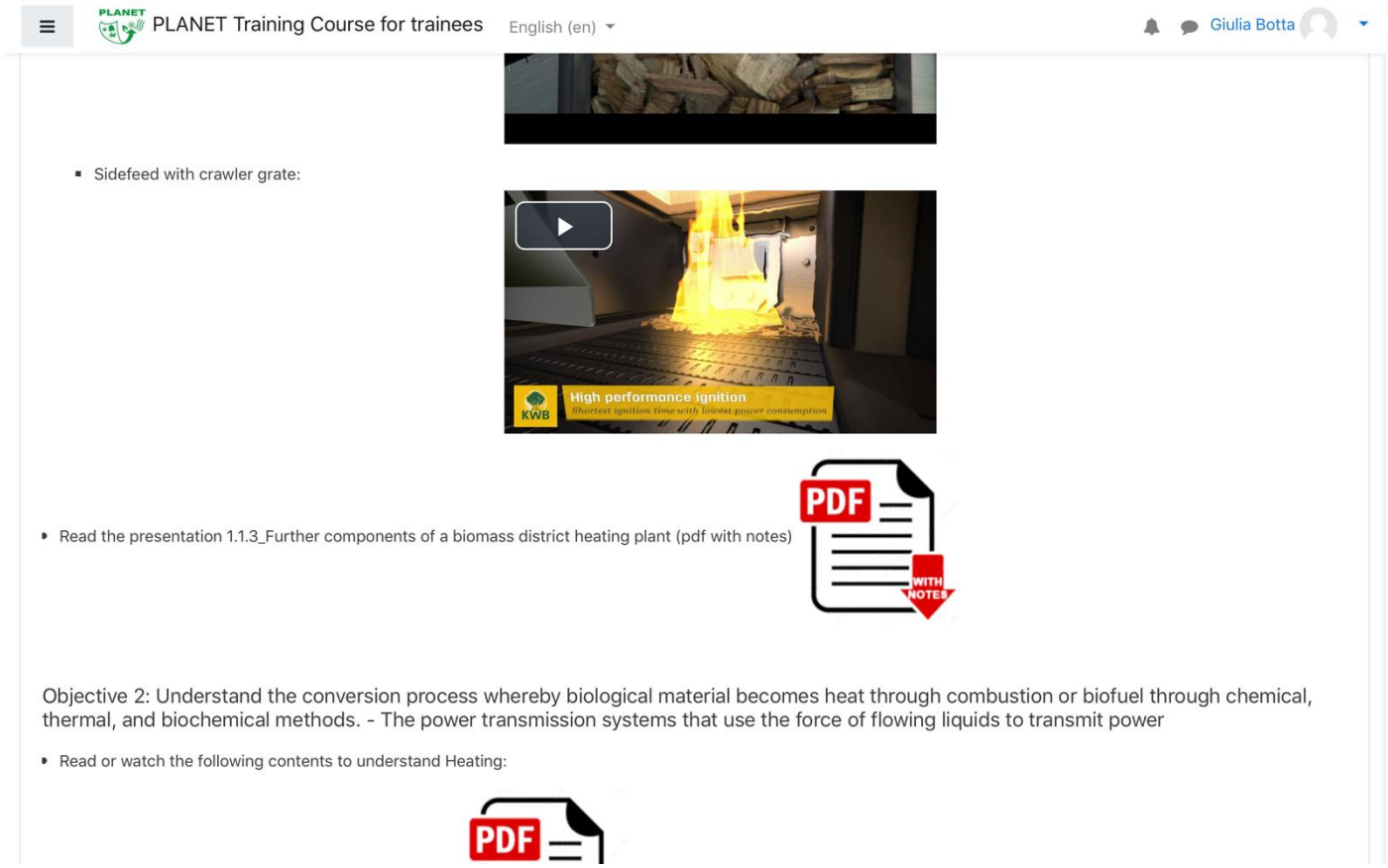


Figura 105

PLANET – PLan for Agriculture reNewable Energy Training

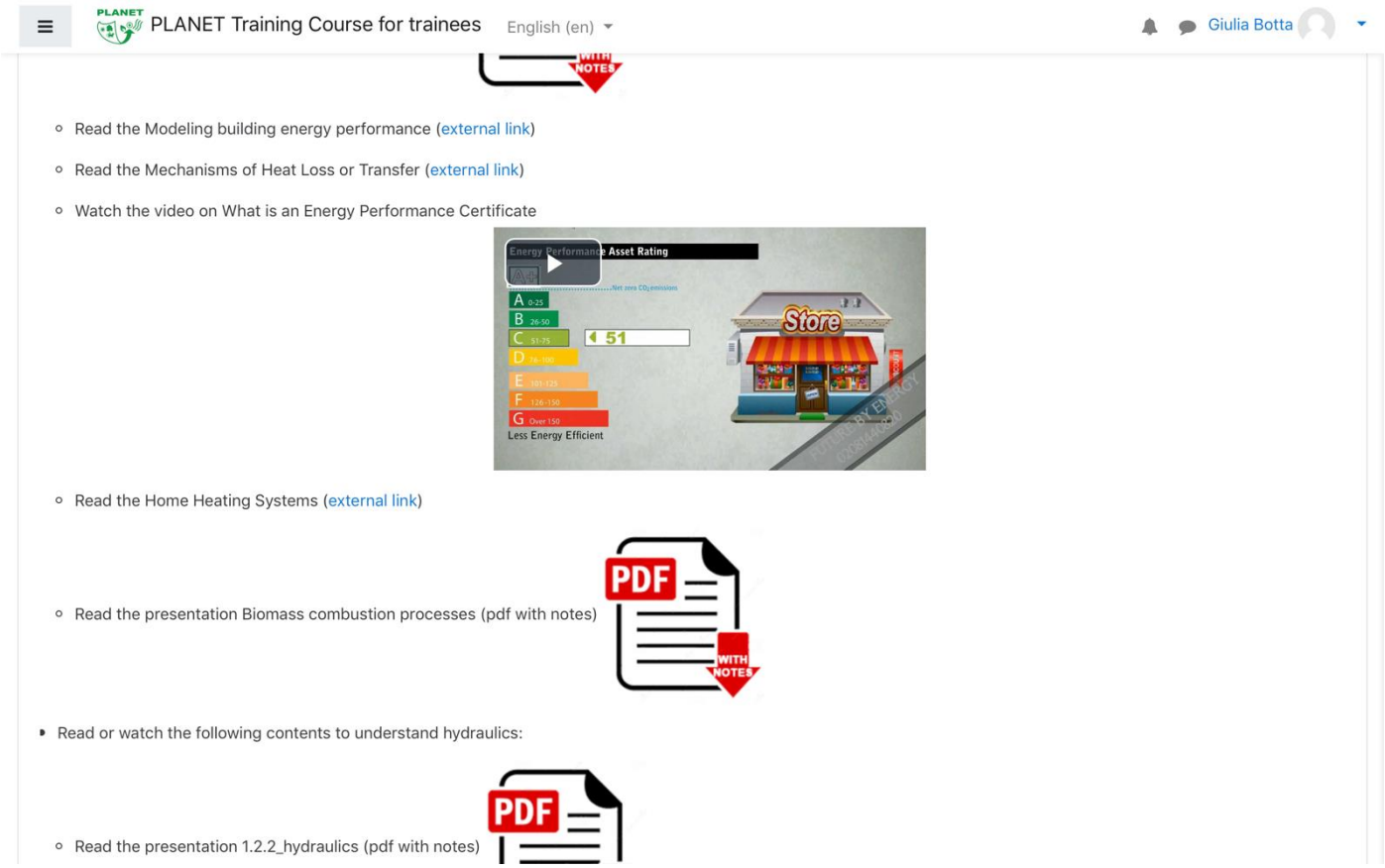


Figura 106

PLANET – PLan for Agriculture reNewable Energy Training

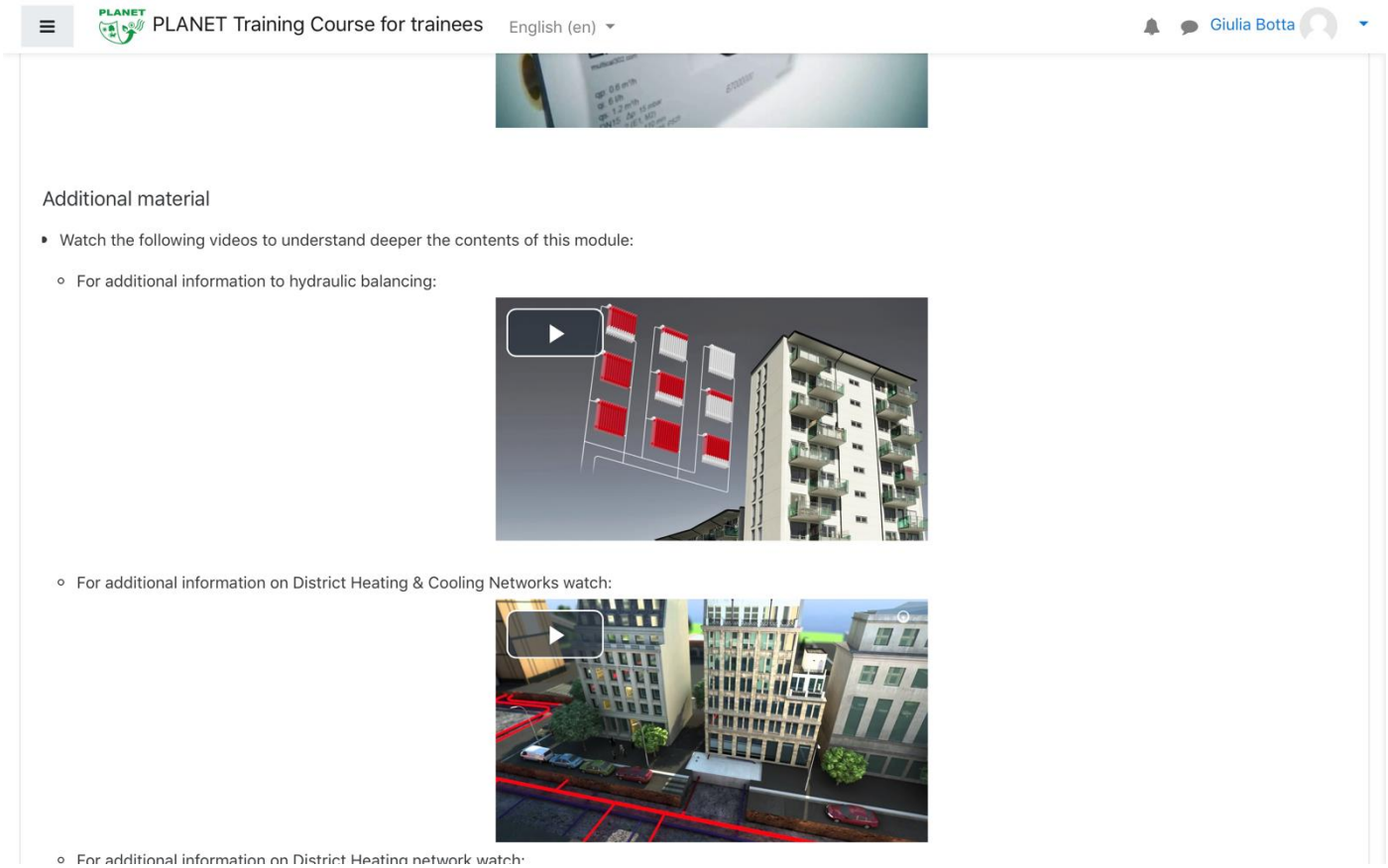


Figura 107

PLANET – PLan for Agriculture reNewable Energy Training

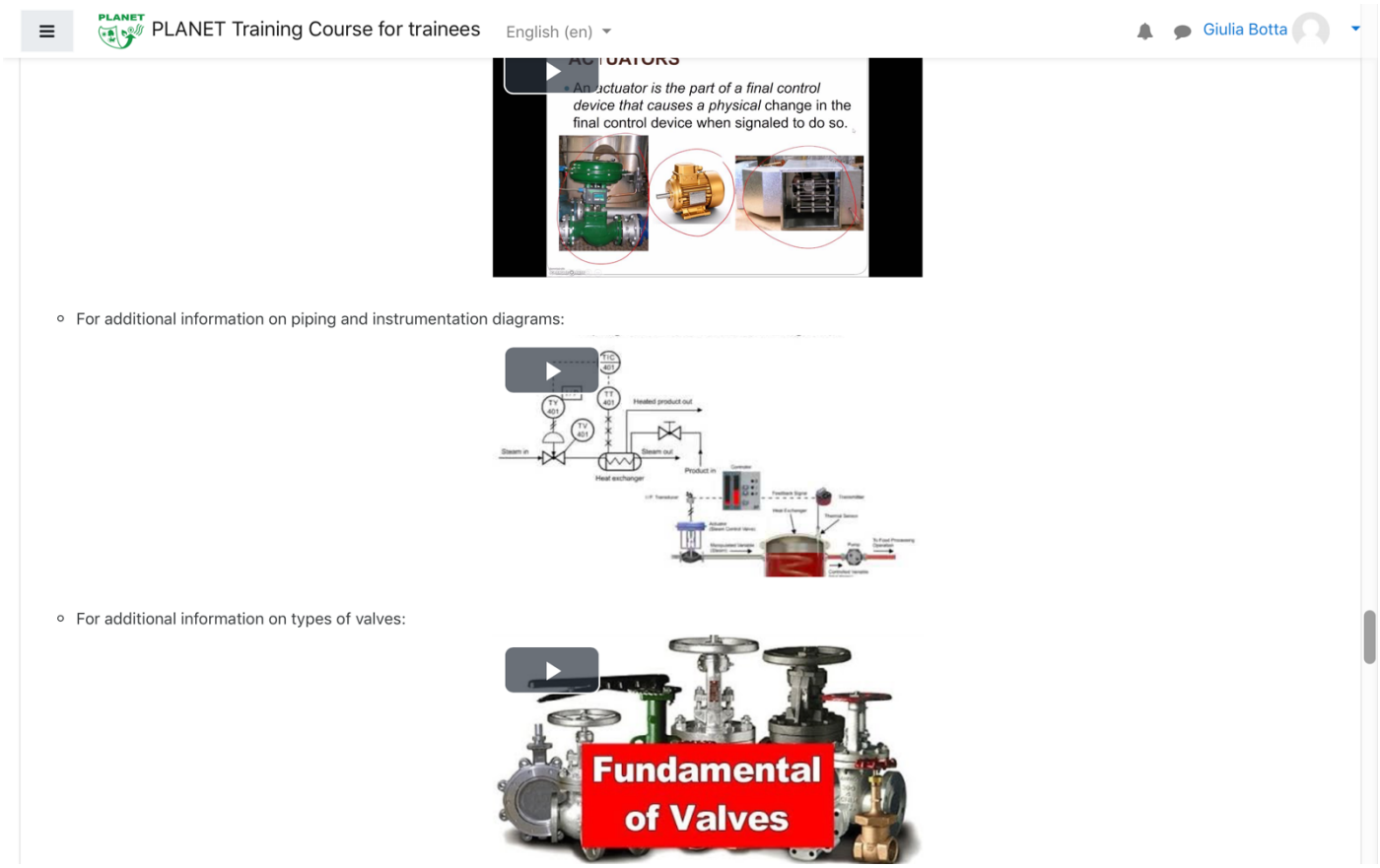


Figura 108

PLANET – PLan for Agriculture reNewable Energy Training

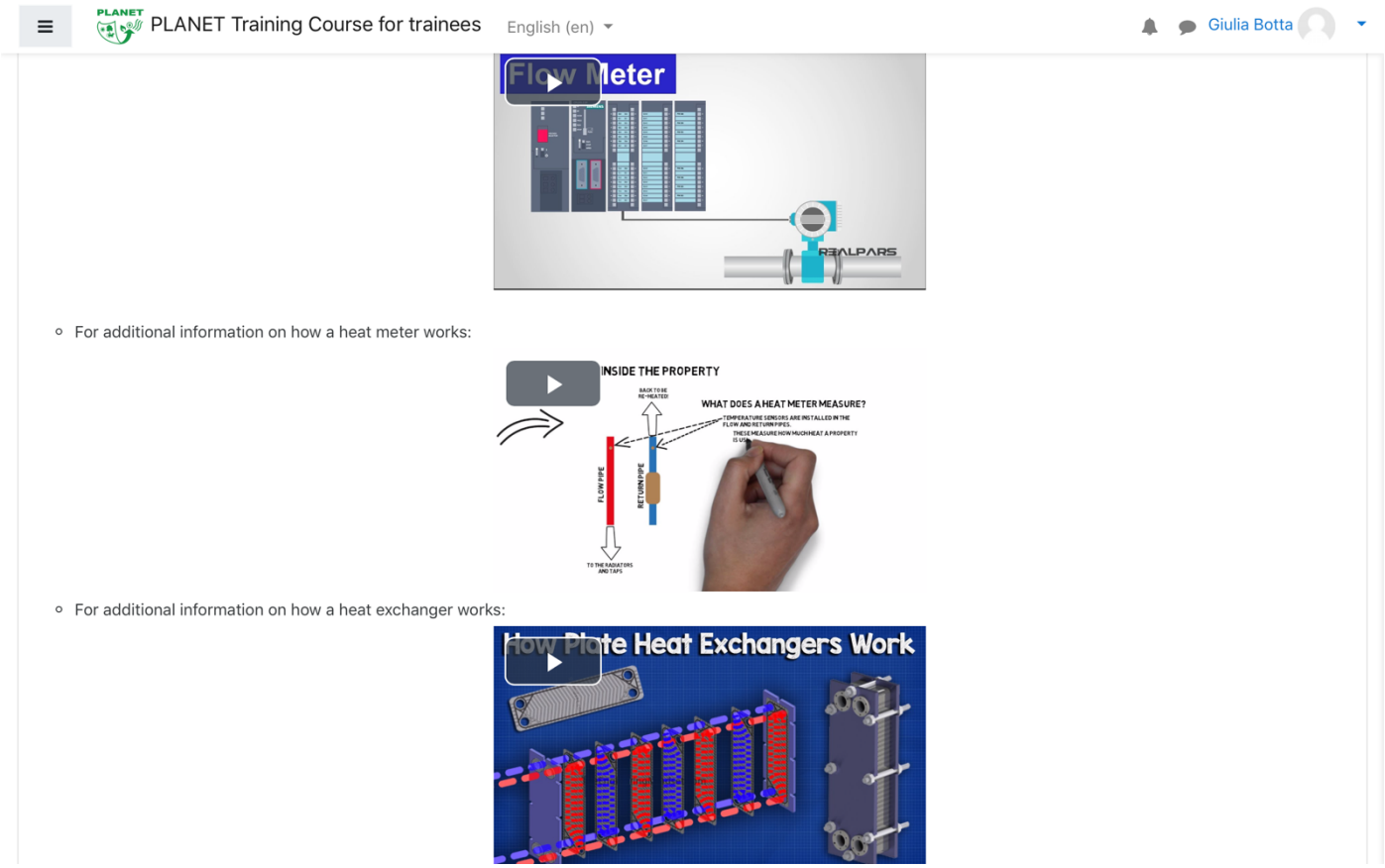


Figura 109

PLANET – PLan for Agriculture reNewable Energy Training

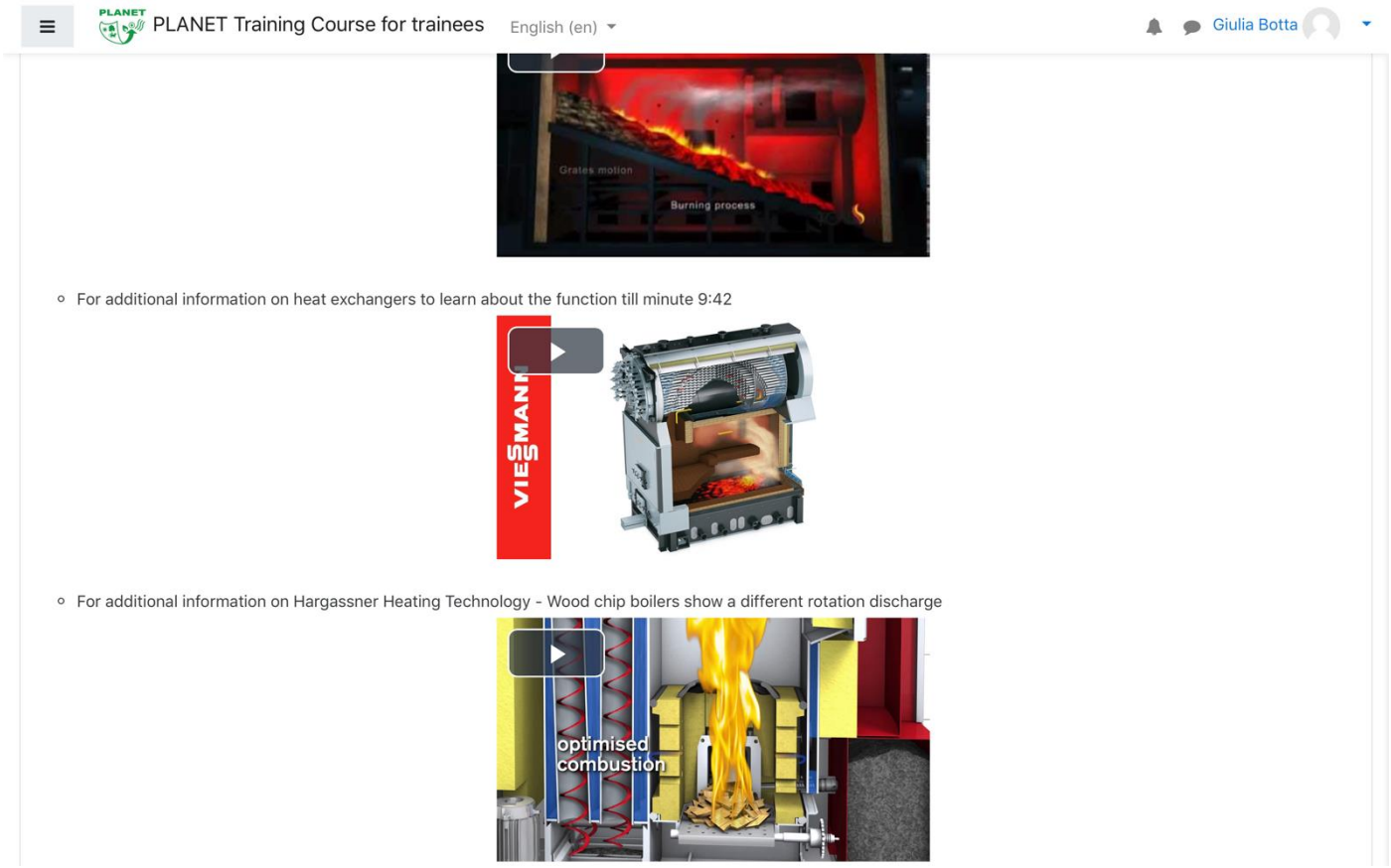


Figura 110

PLANET – PLan for Agriculture reNewable Energy Training

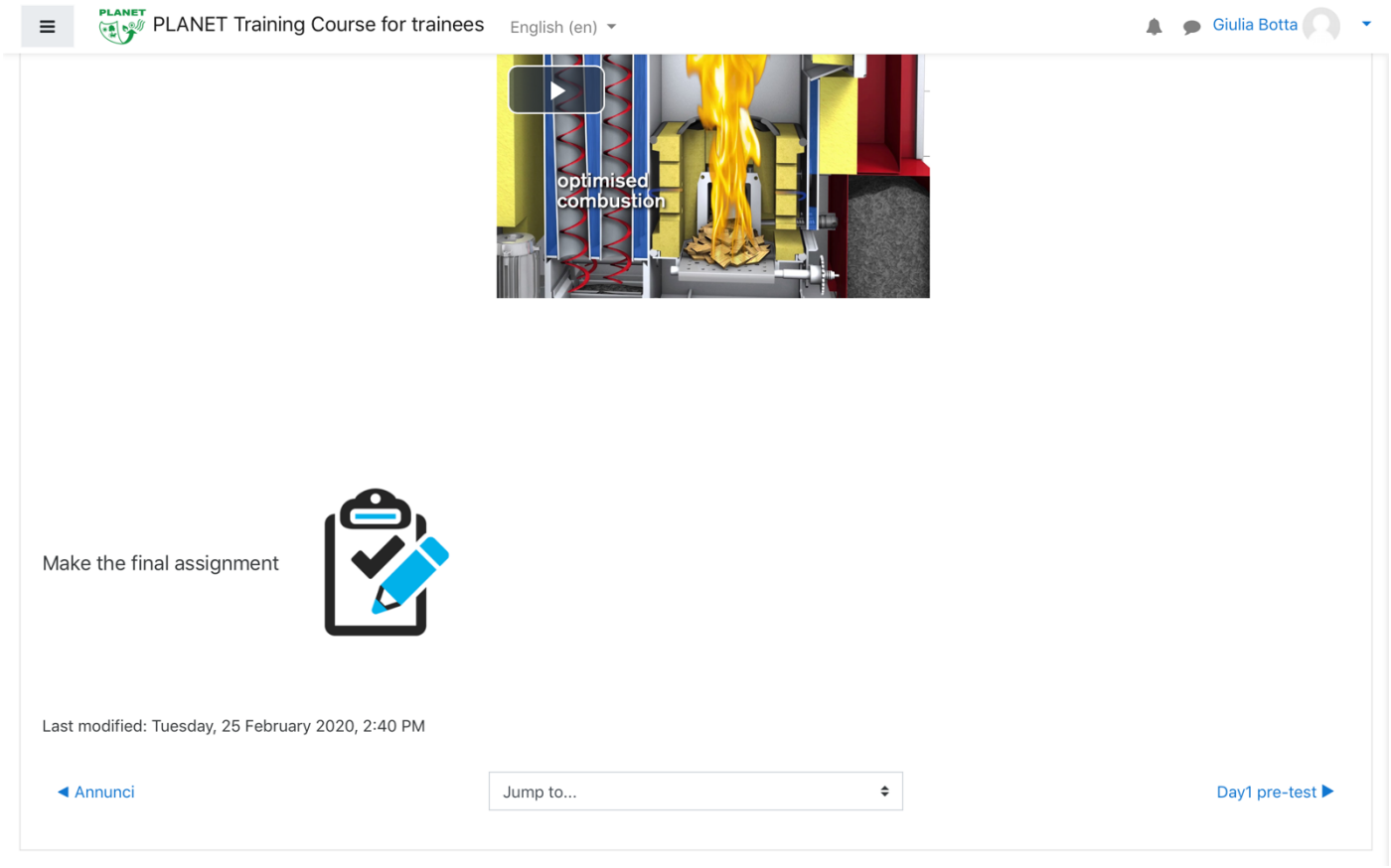


Figura 111

PLANET – PLan for Agriculture reNewable Energy Training

TWO:

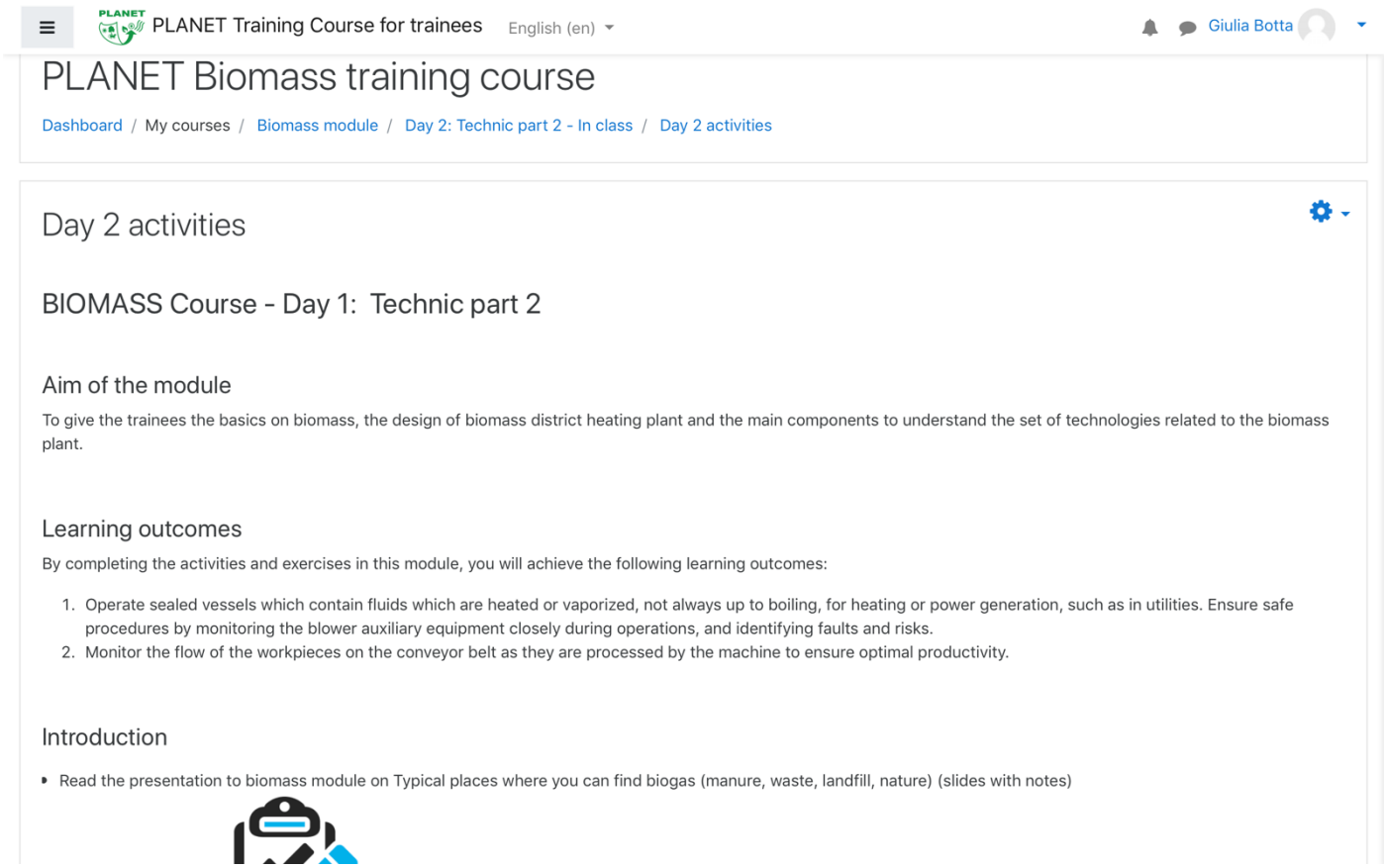


Figura 112

PLANET – PLan for Agriculture reNewable Energy Training

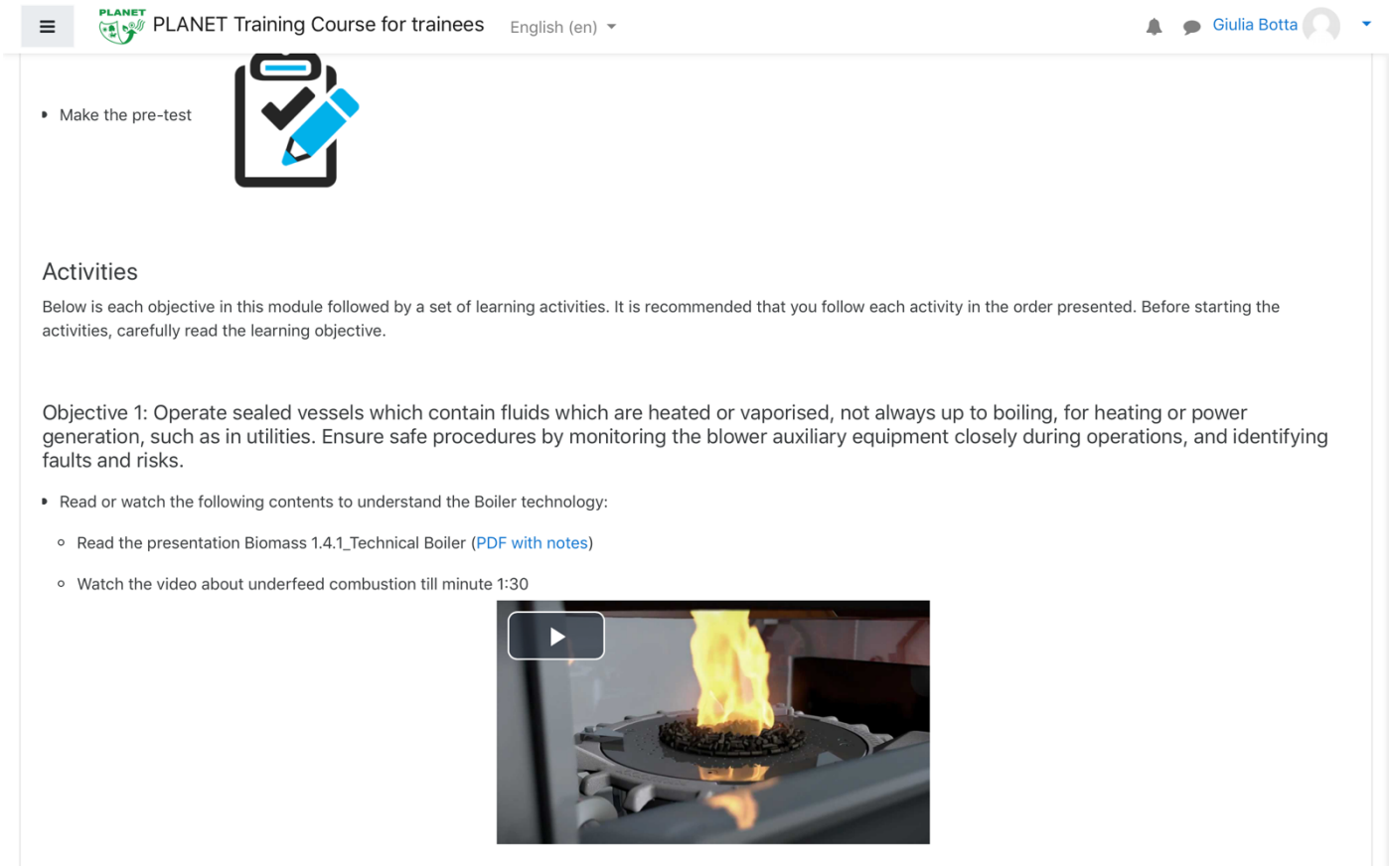


Figura 113

PLANET – PLan for Agriculture reNewable Energy Training

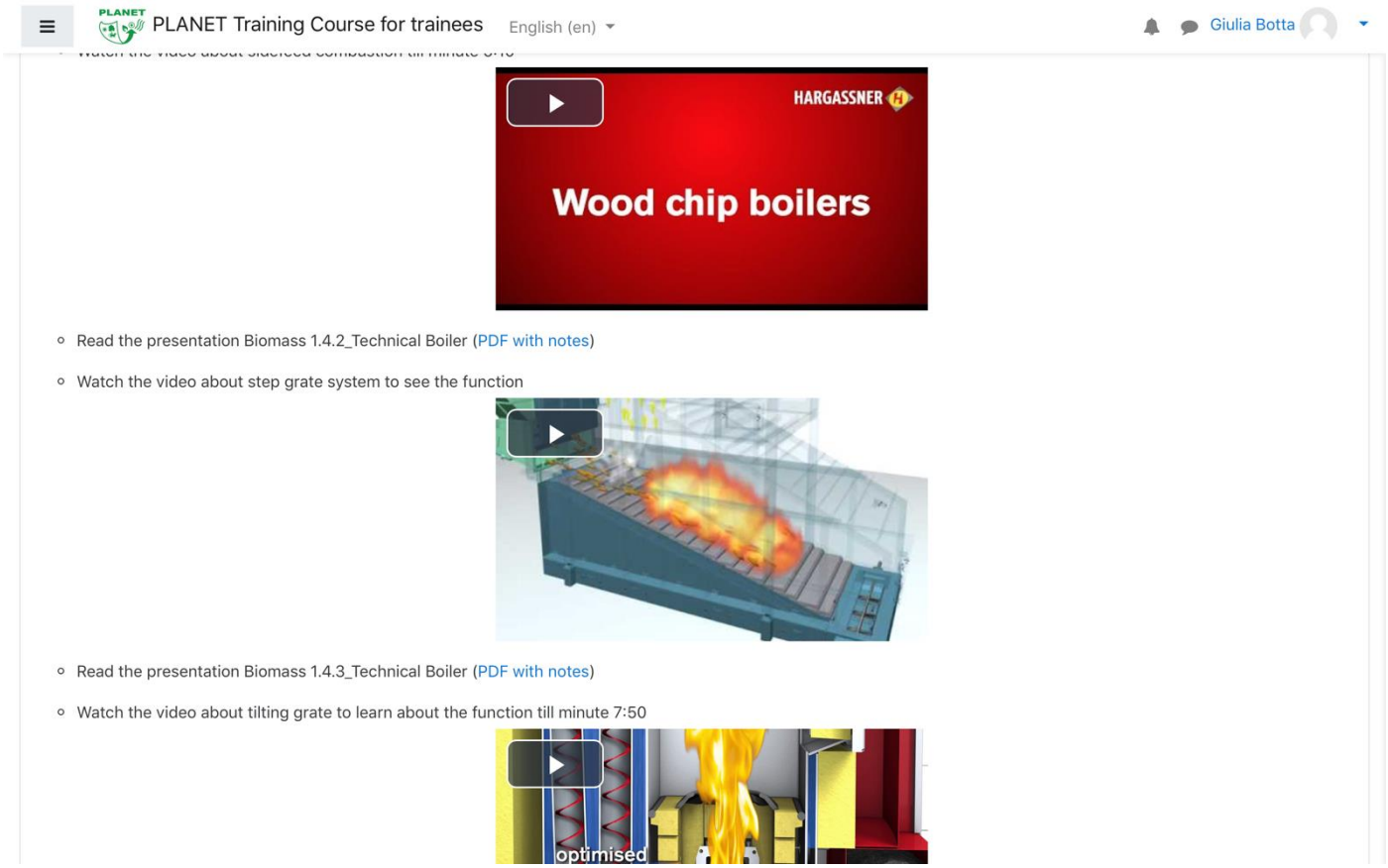
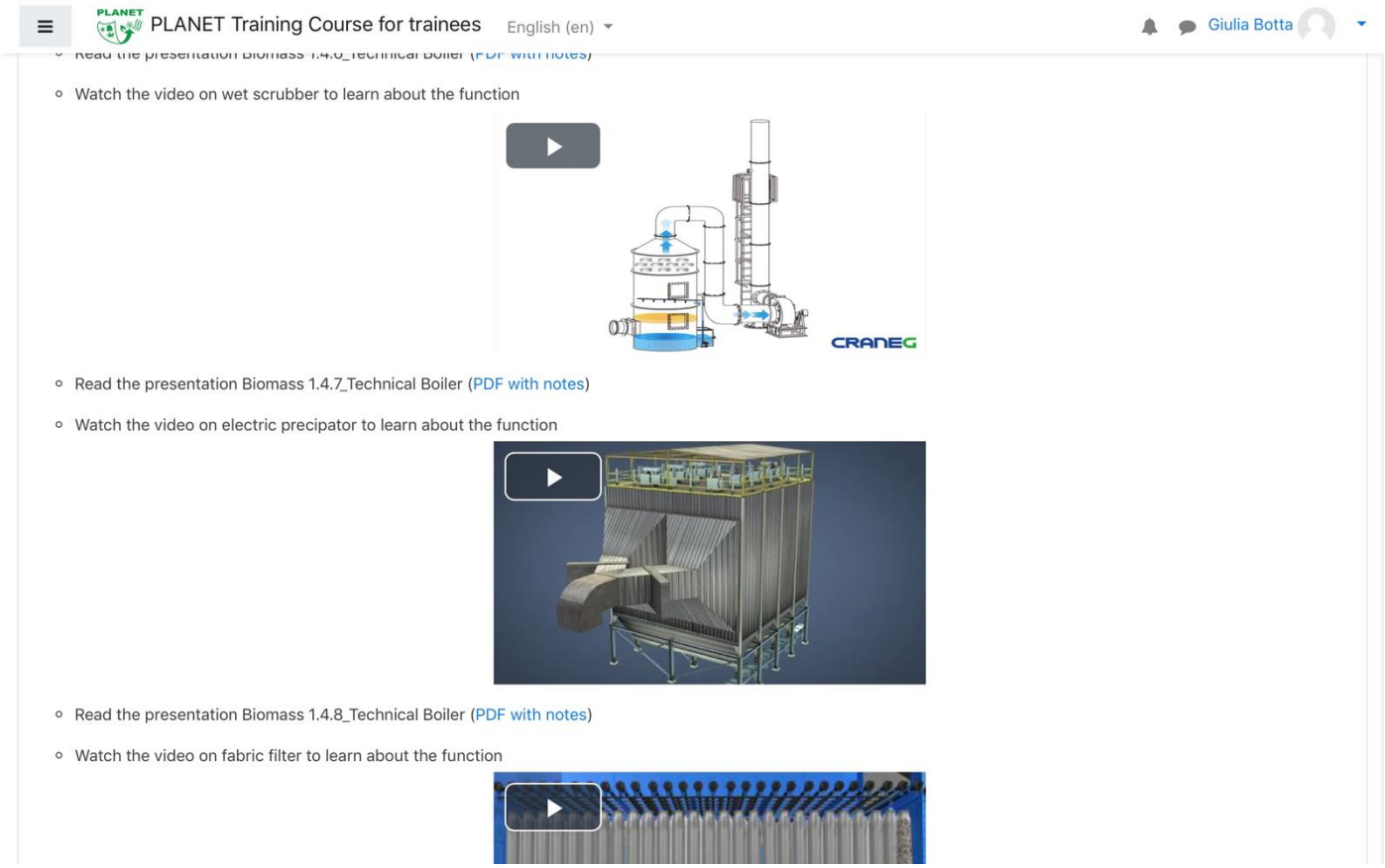


Figura 114

PLANET – PLan for Agriculture reNewable Energy Training



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PLANET – PLan for Agriculture reNewable Energy Training

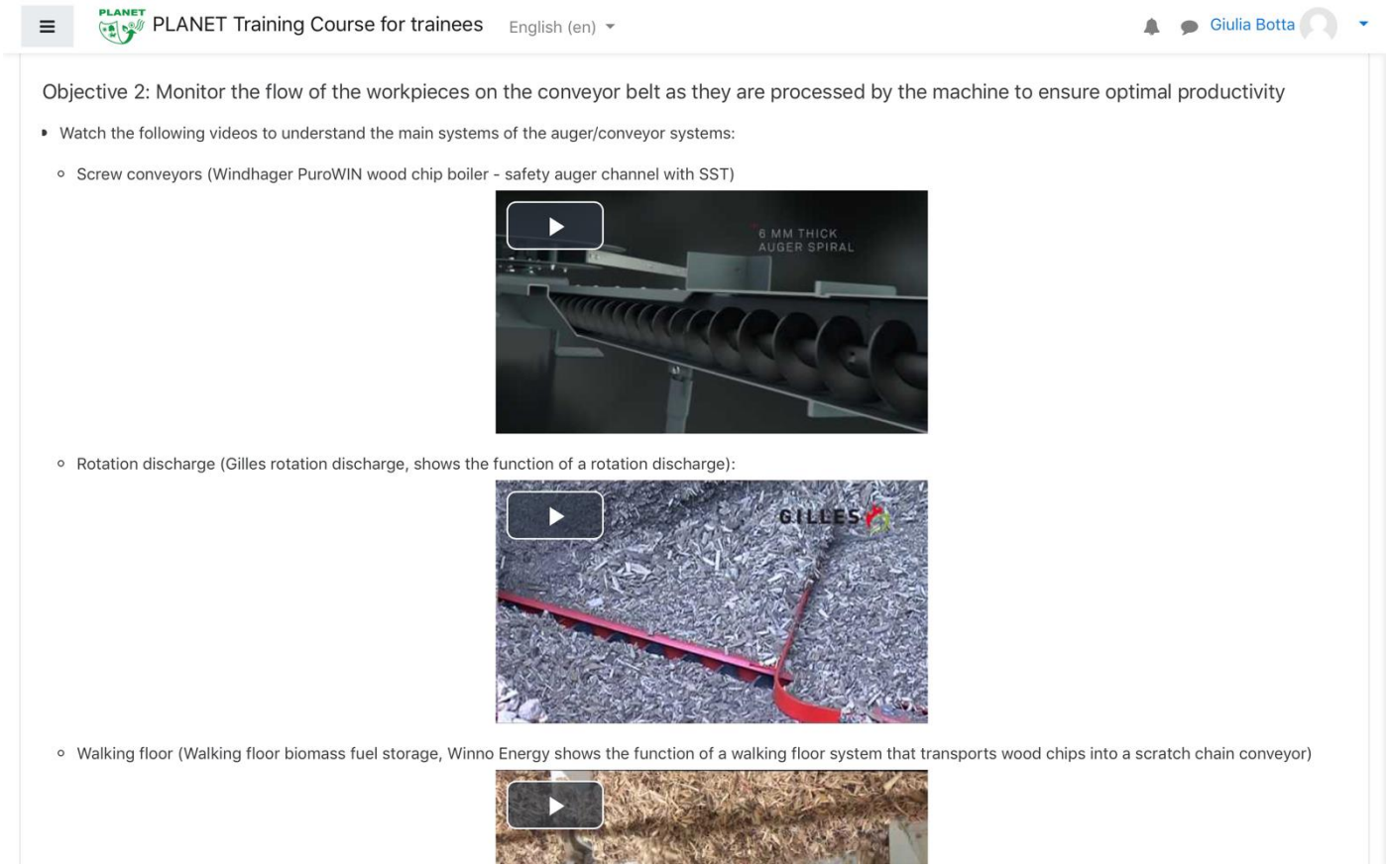

Figura 116

PLANET – PLan for Agriculture reNewable Energy Training

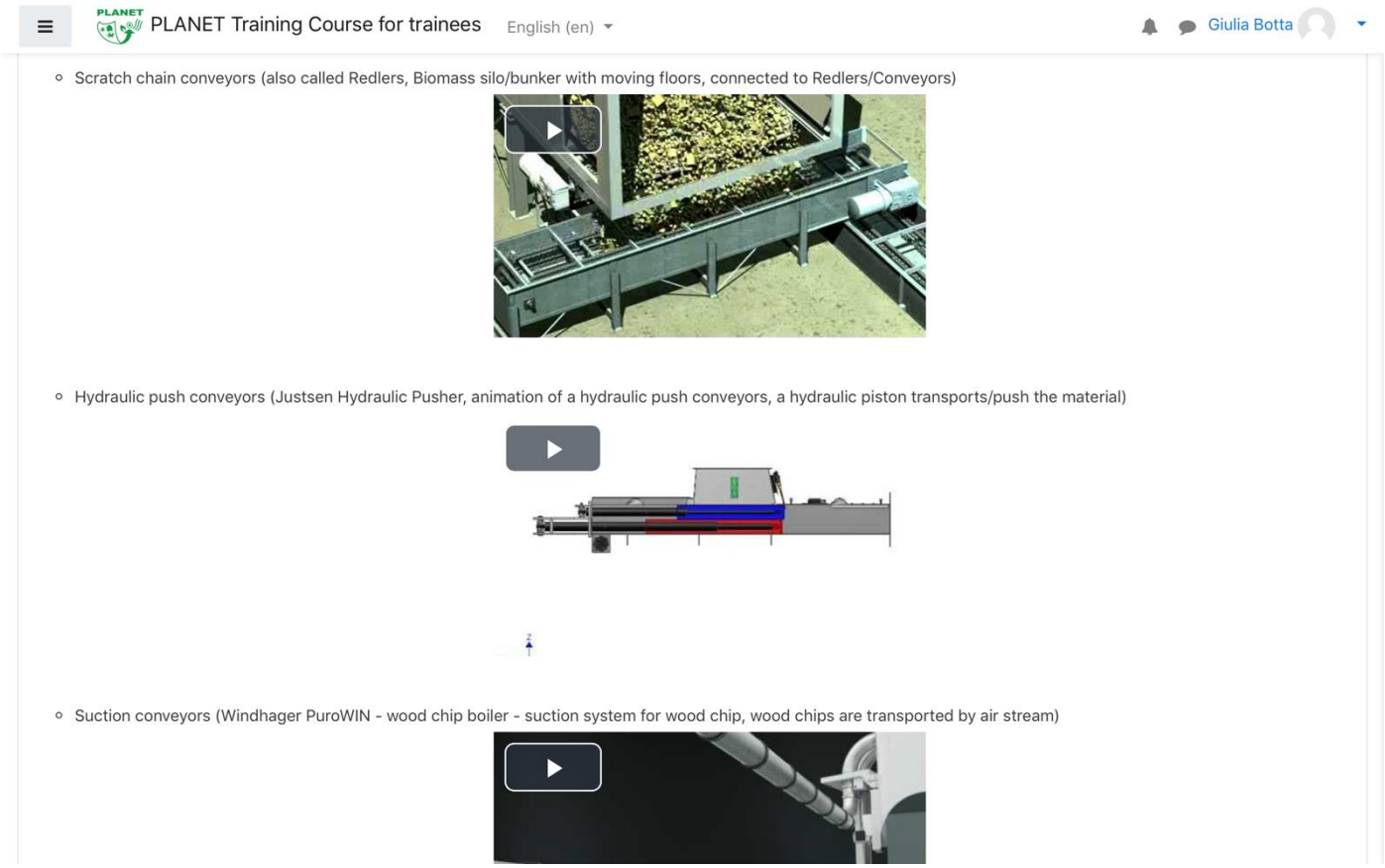

Figura 117

PLANET – PLan for Agriculture reNewable Energy Training

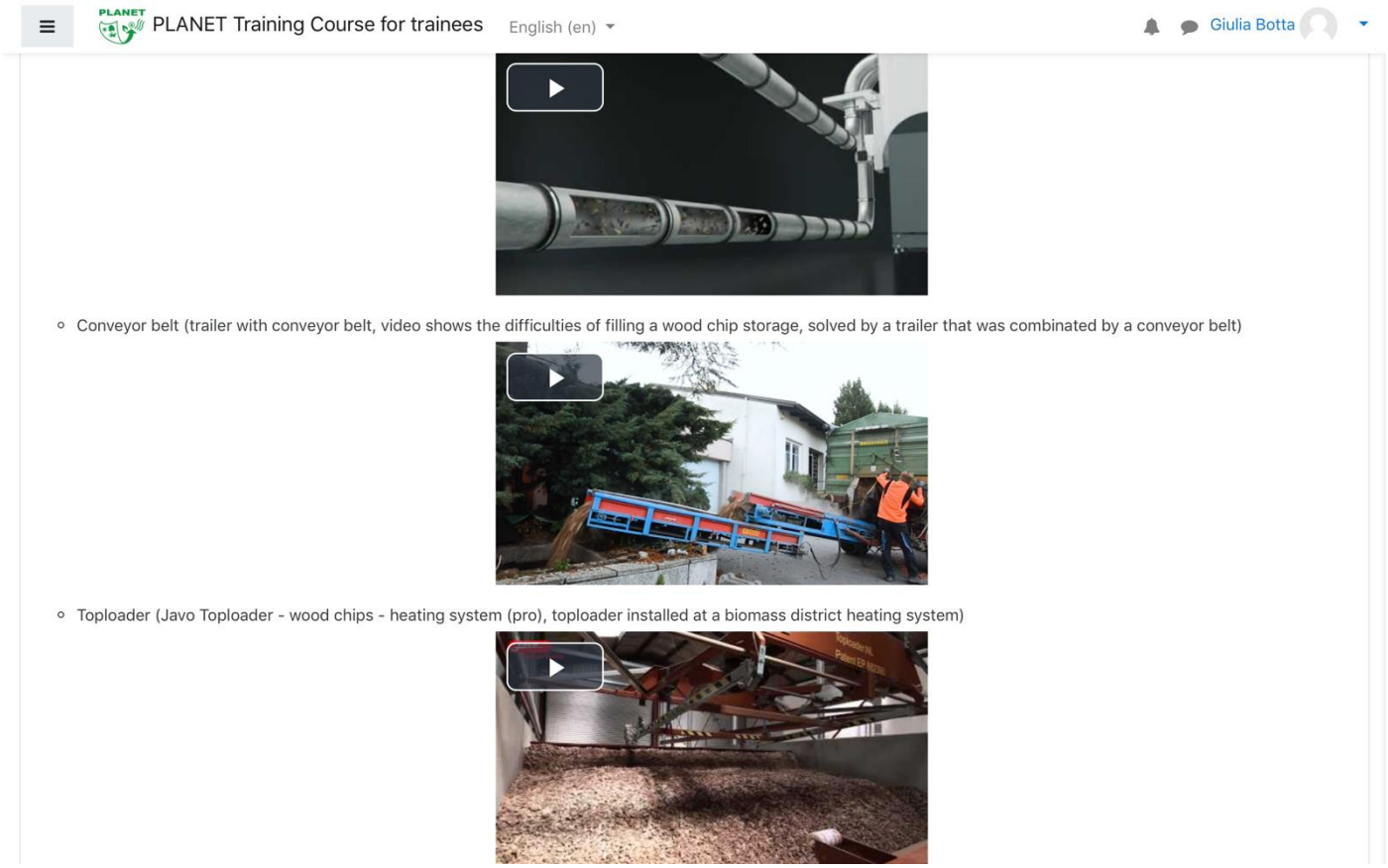

Figura 118

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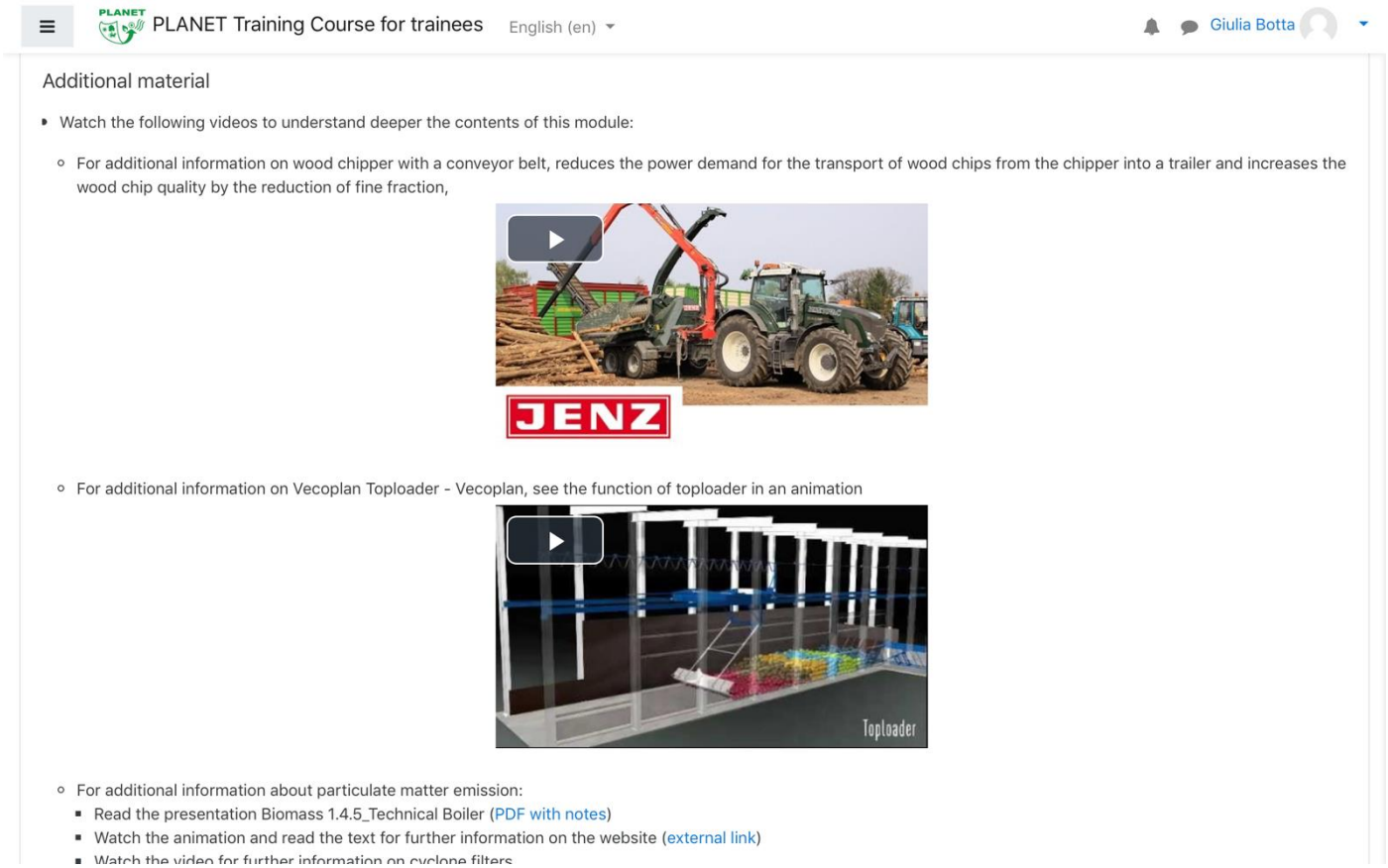

Figura 119

PLANET – PLan for Agriculture reNewable Energy Training

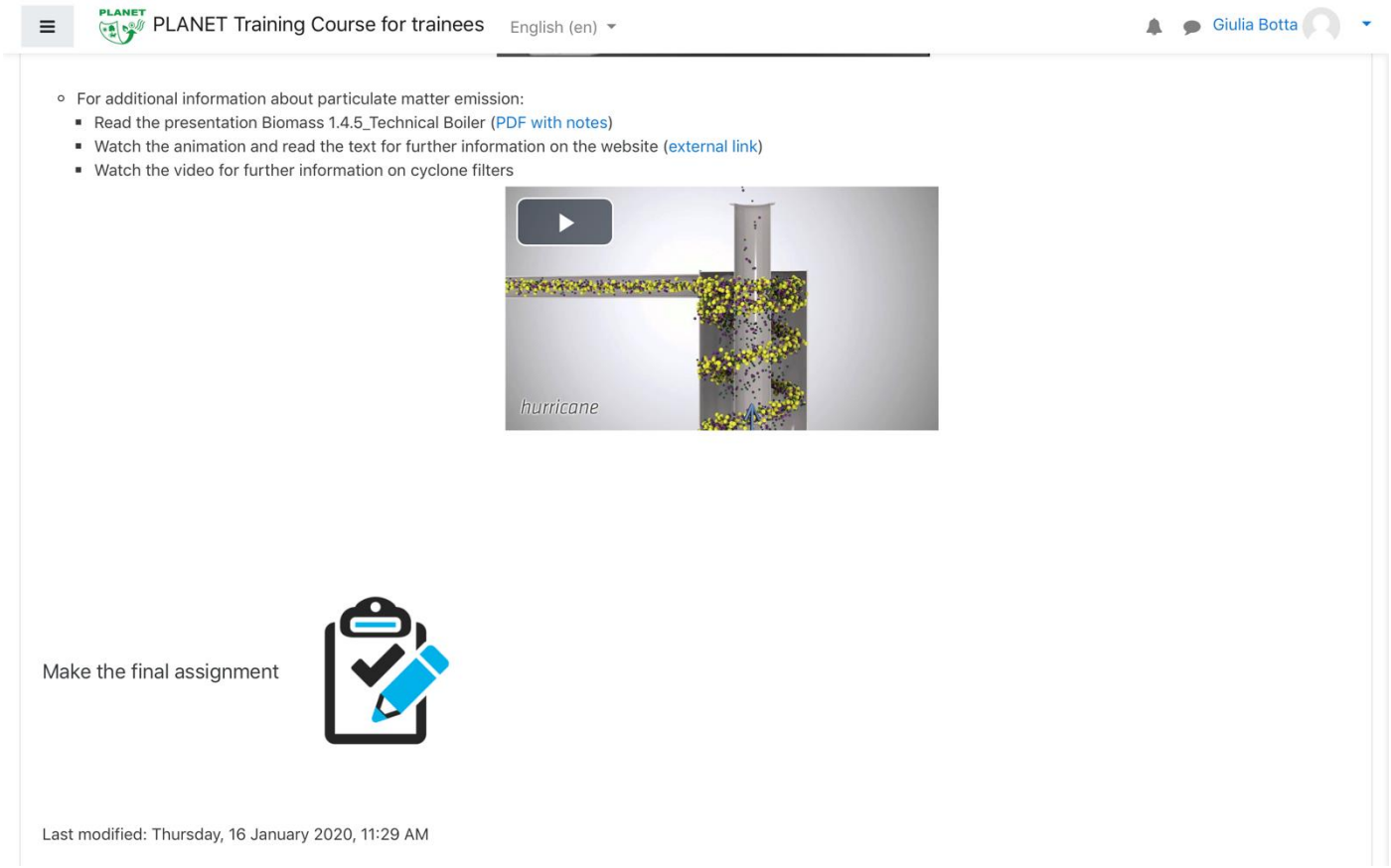

Figura 120

THREE:

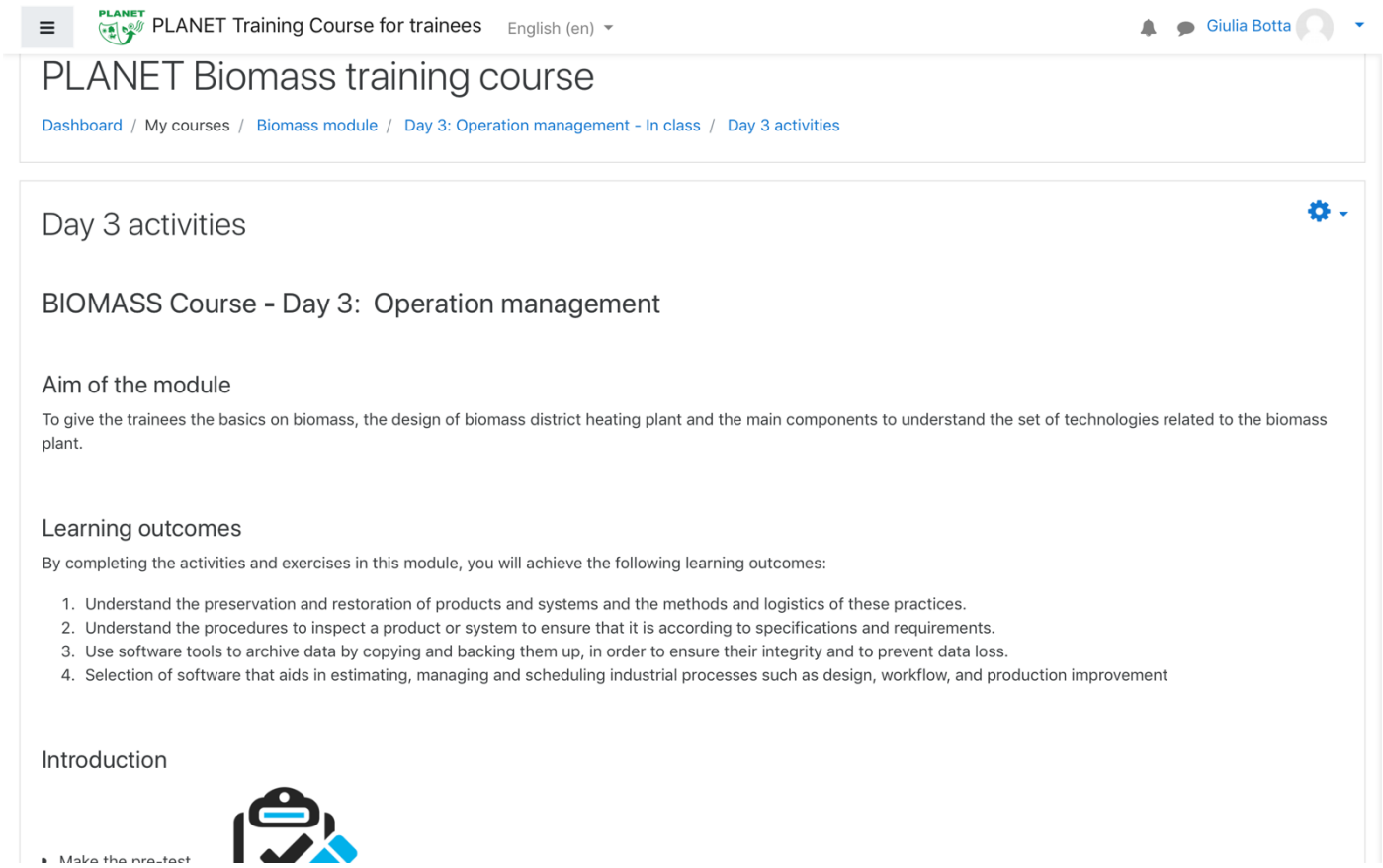

Figura 121

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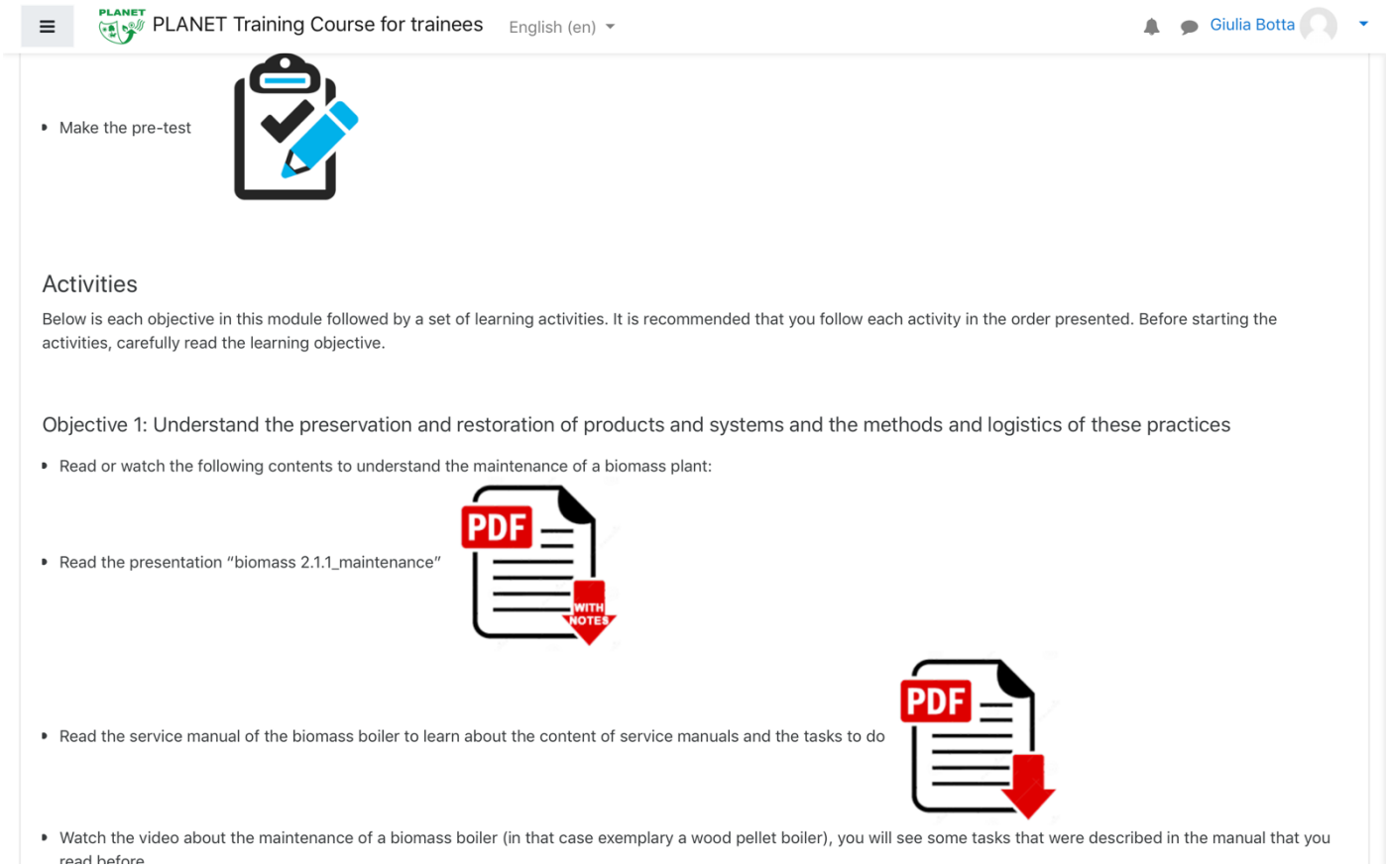

Figura122

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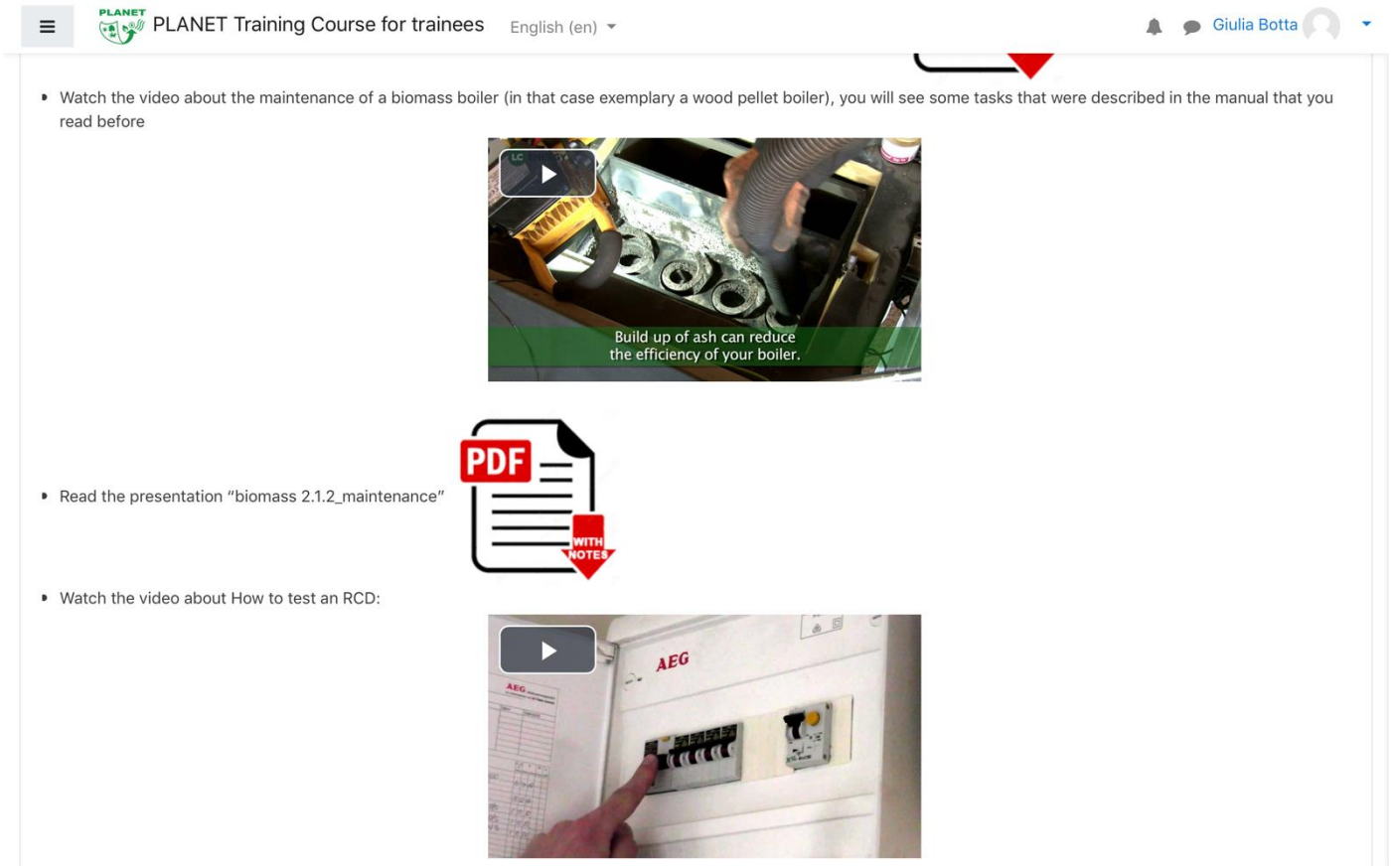

Figura123

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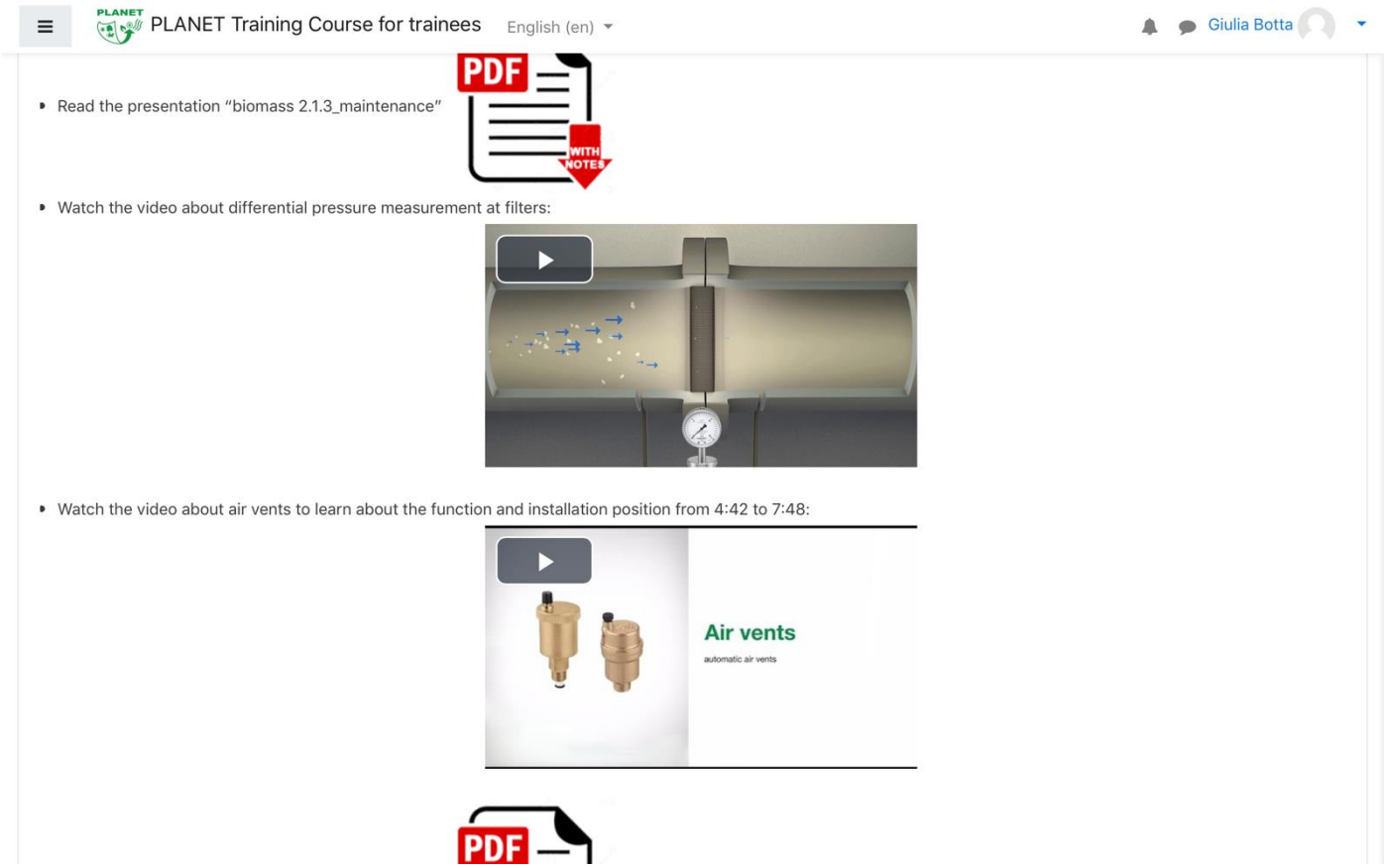

Figura 124

PLANET – PLan for Agriculture reNewable Energy Training

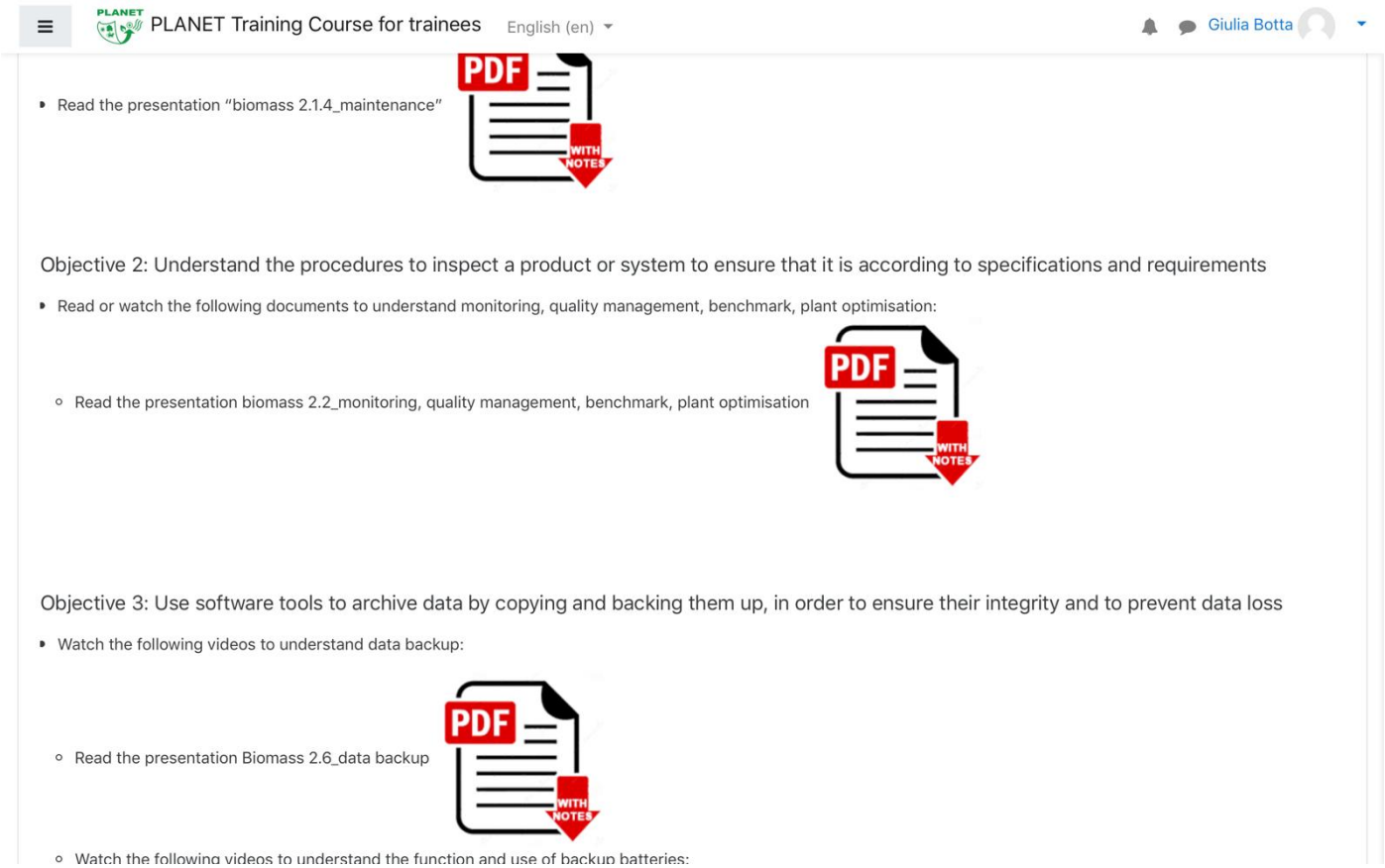

Figura 125

PLANET – PLan for Agriculture reNewable Energy Training

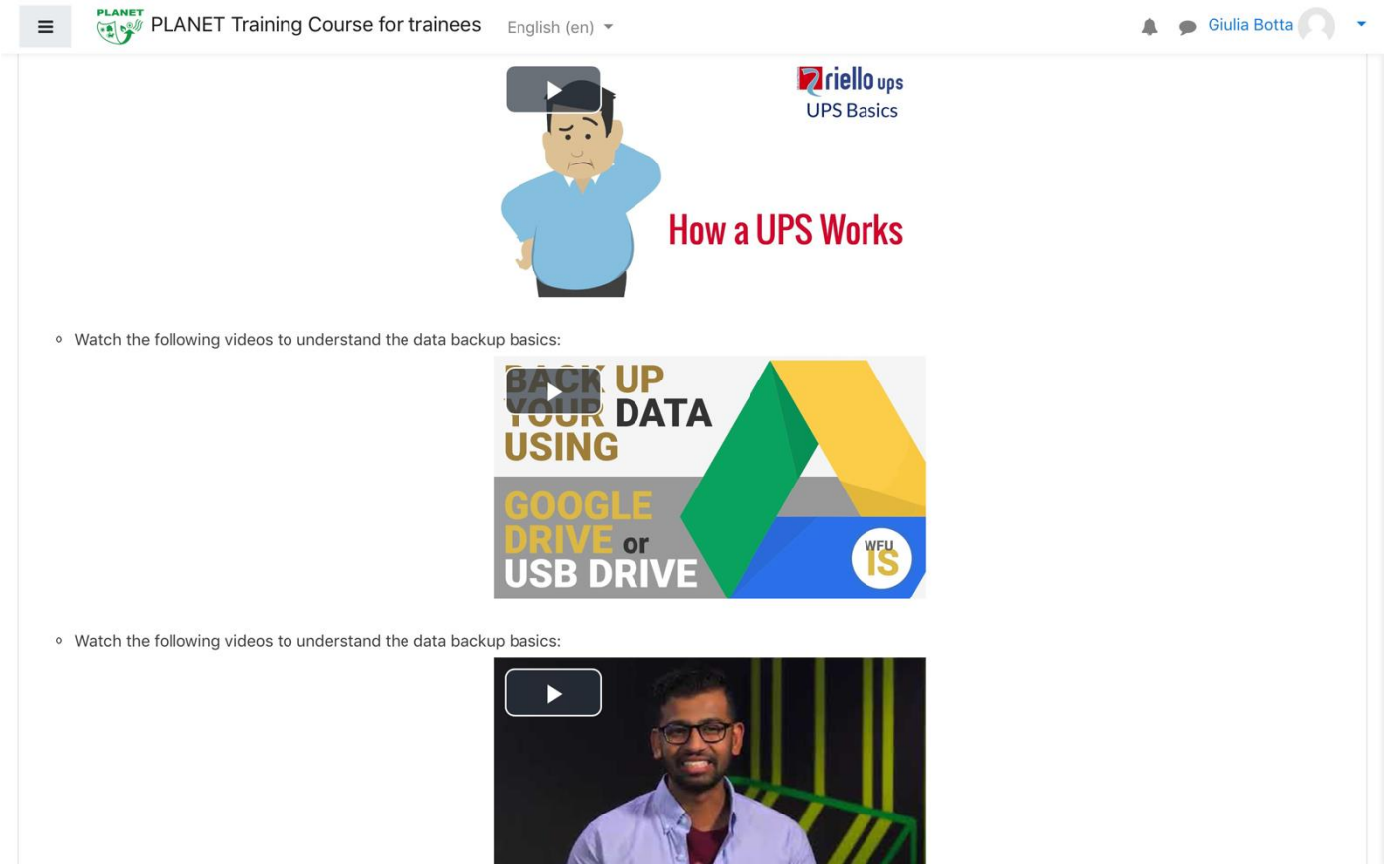

Figura 126

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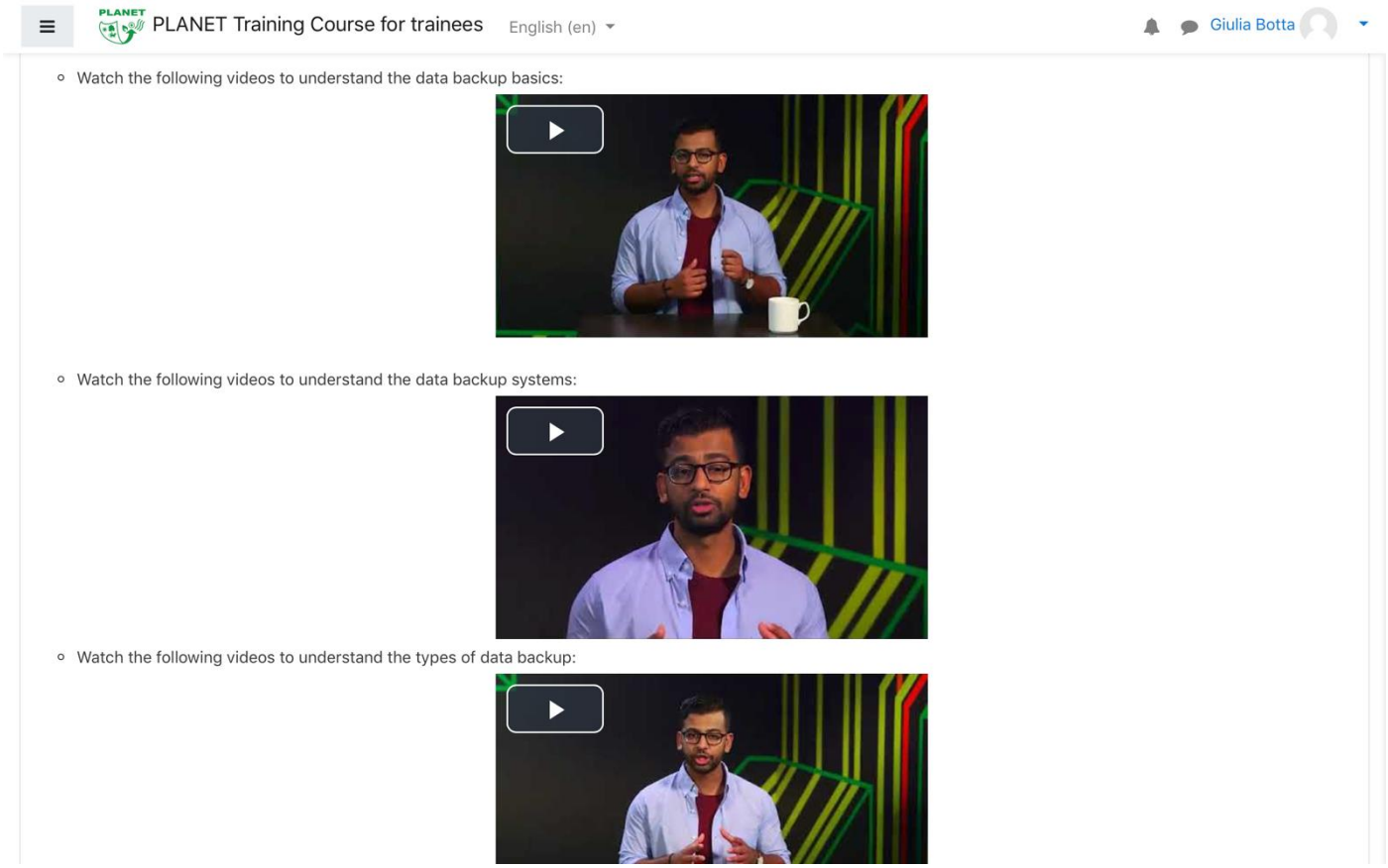

Figura 127

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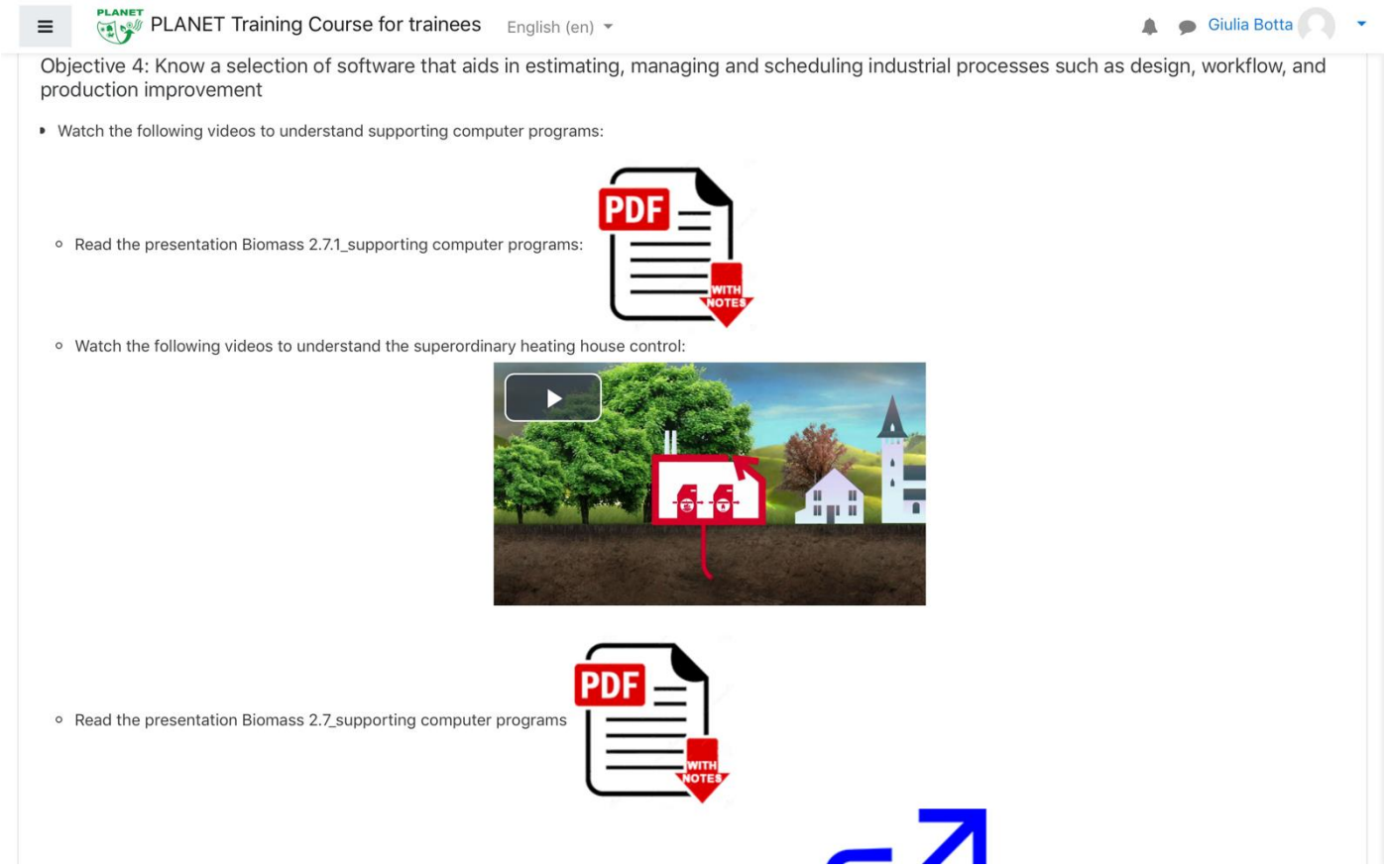


Figura 128

PLANET – PLan for Agriculture reNewable Energy Training

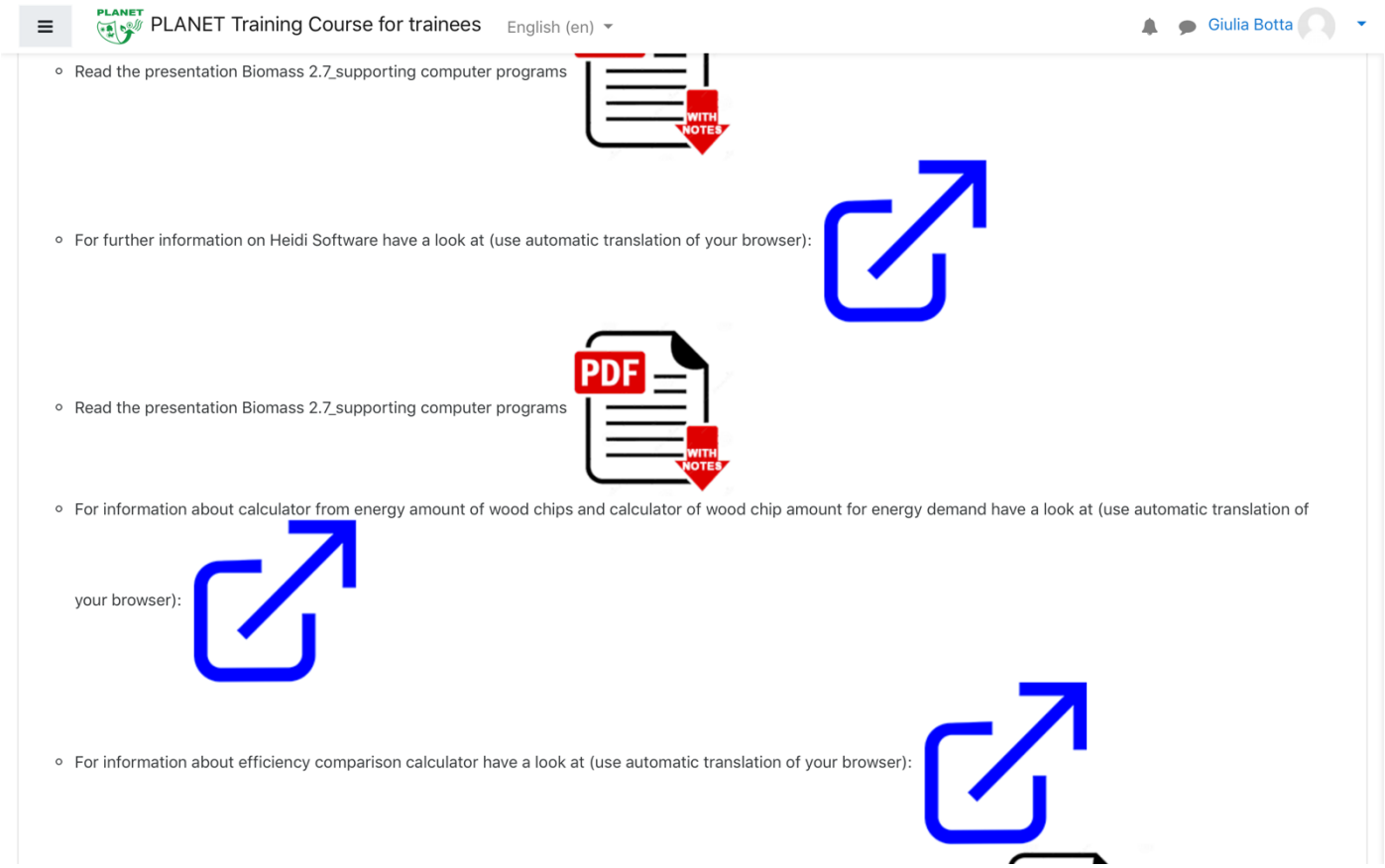


Figura 129

PLANET – PLan for Agriculture reNewable Energy Training

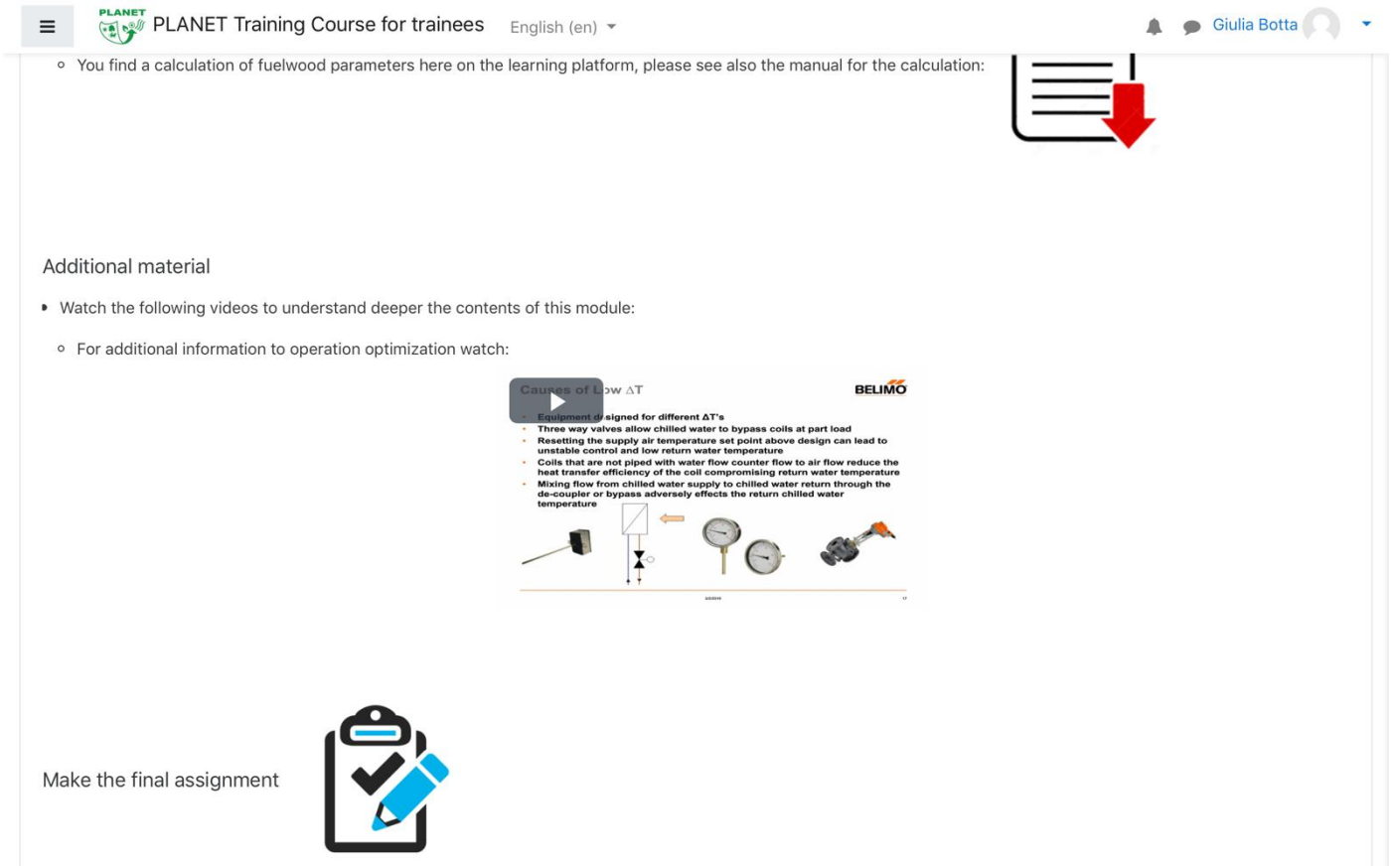


Figura 130

PLANET – PLan for Agriculture reNewable Energy Training

FOUR:

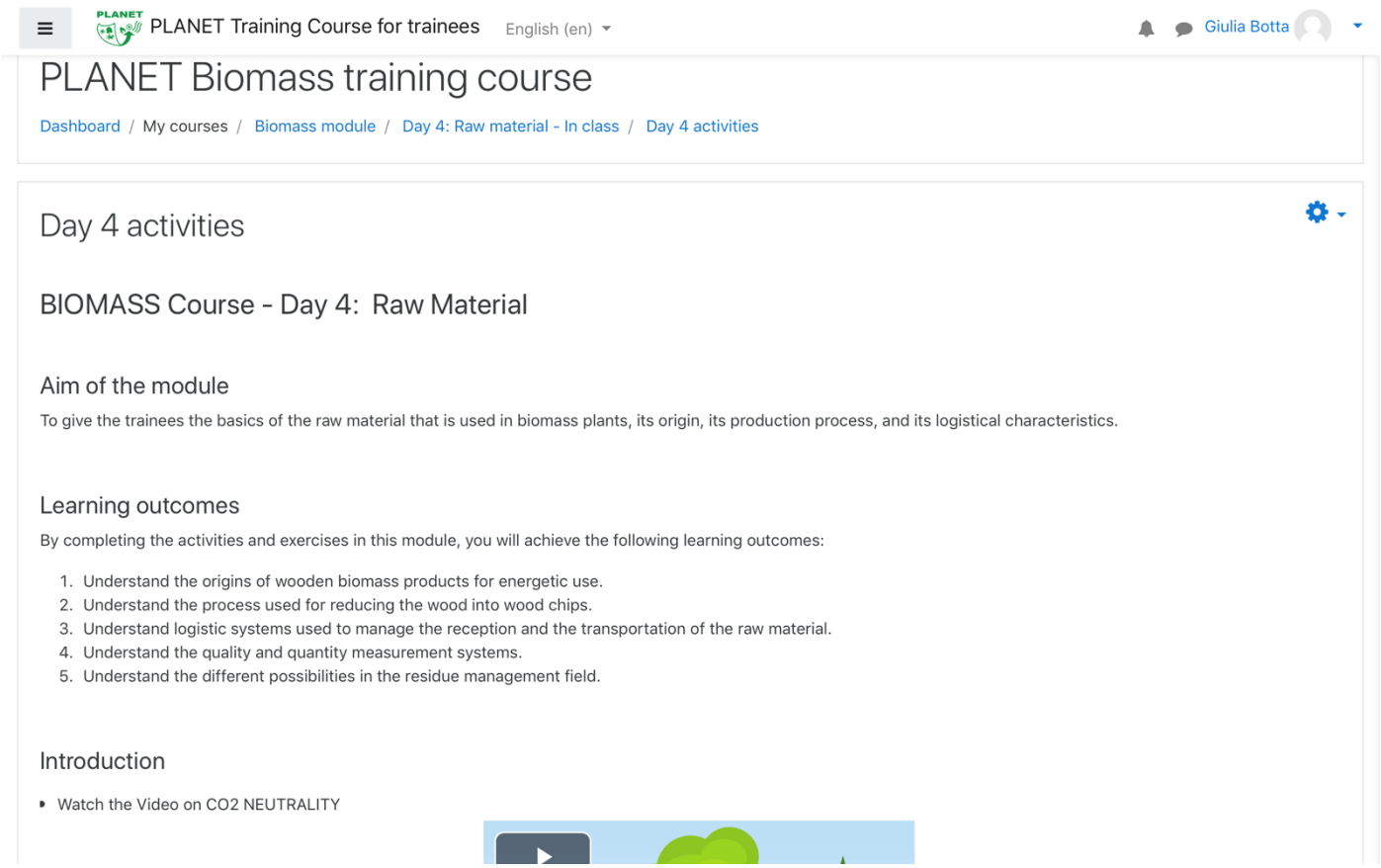


Figura 131

PLANET – PLan for Agriculture reNewable Energy Training

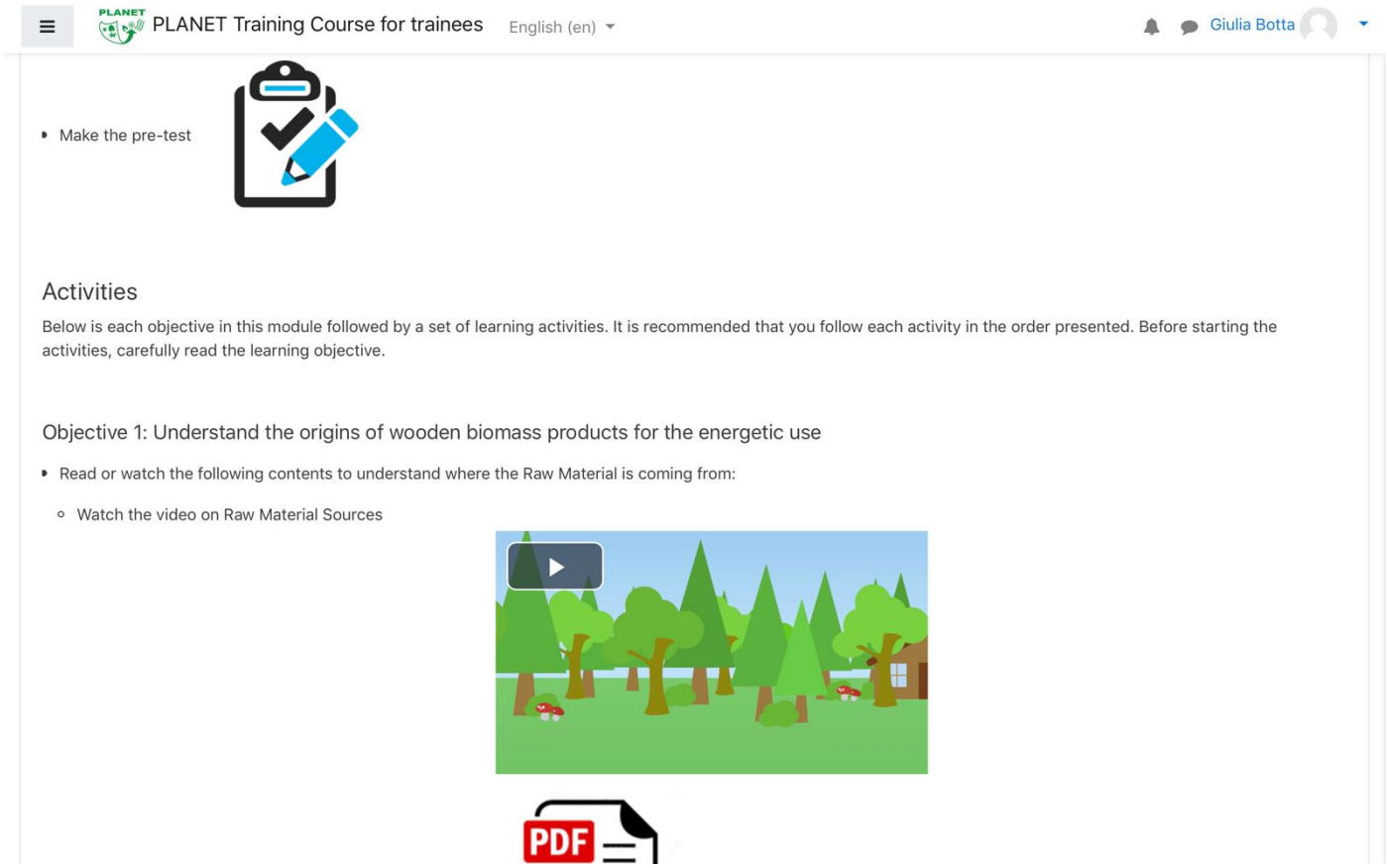


Figura 132

PLANET – PLan for Agriculture reNewable Energy Training

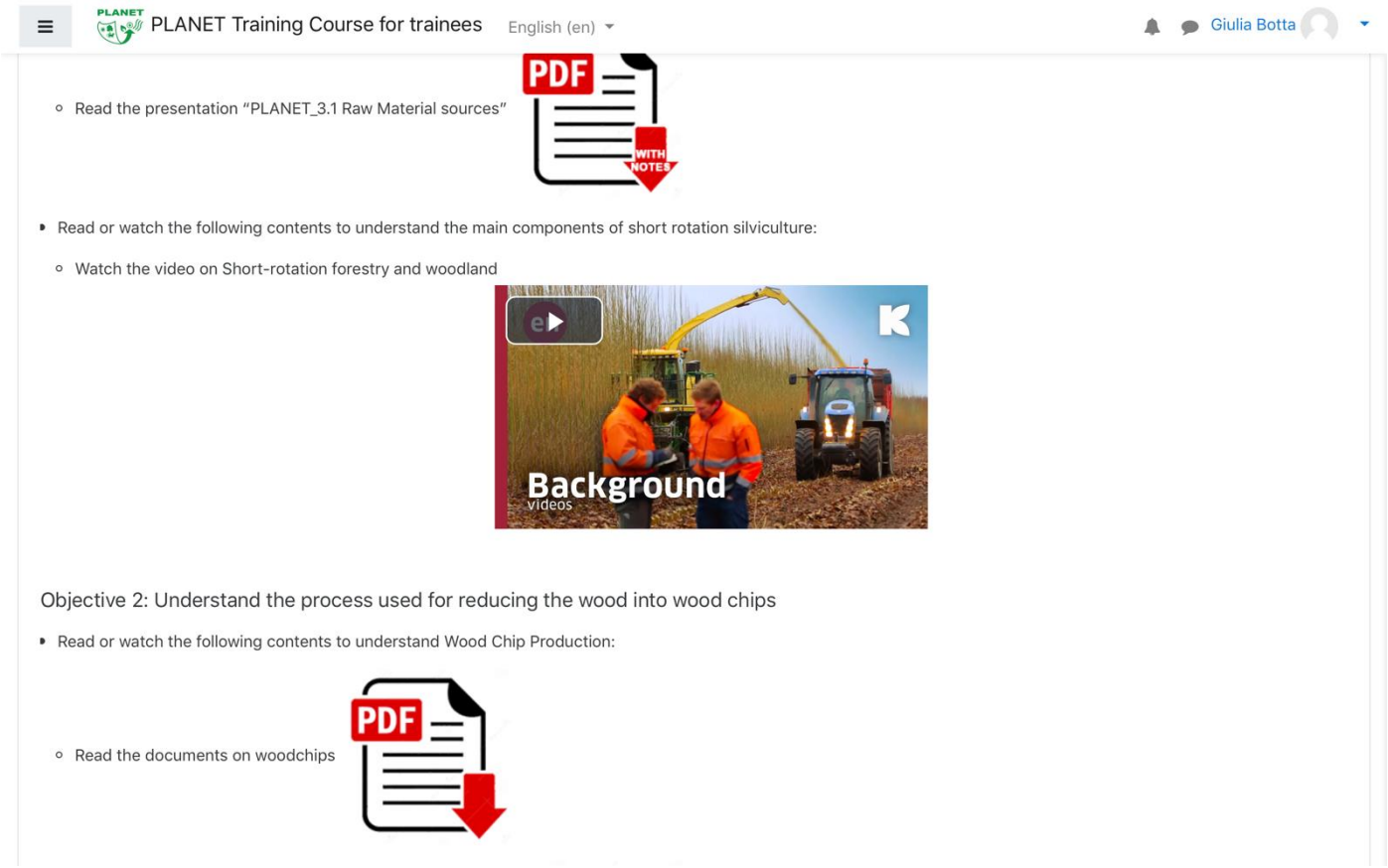


Figura 133

PLANET – PLan for Agriculture reNewable Energy Training

Figura 134

PLANET – PLan for Agriculture reNewable Energy Training

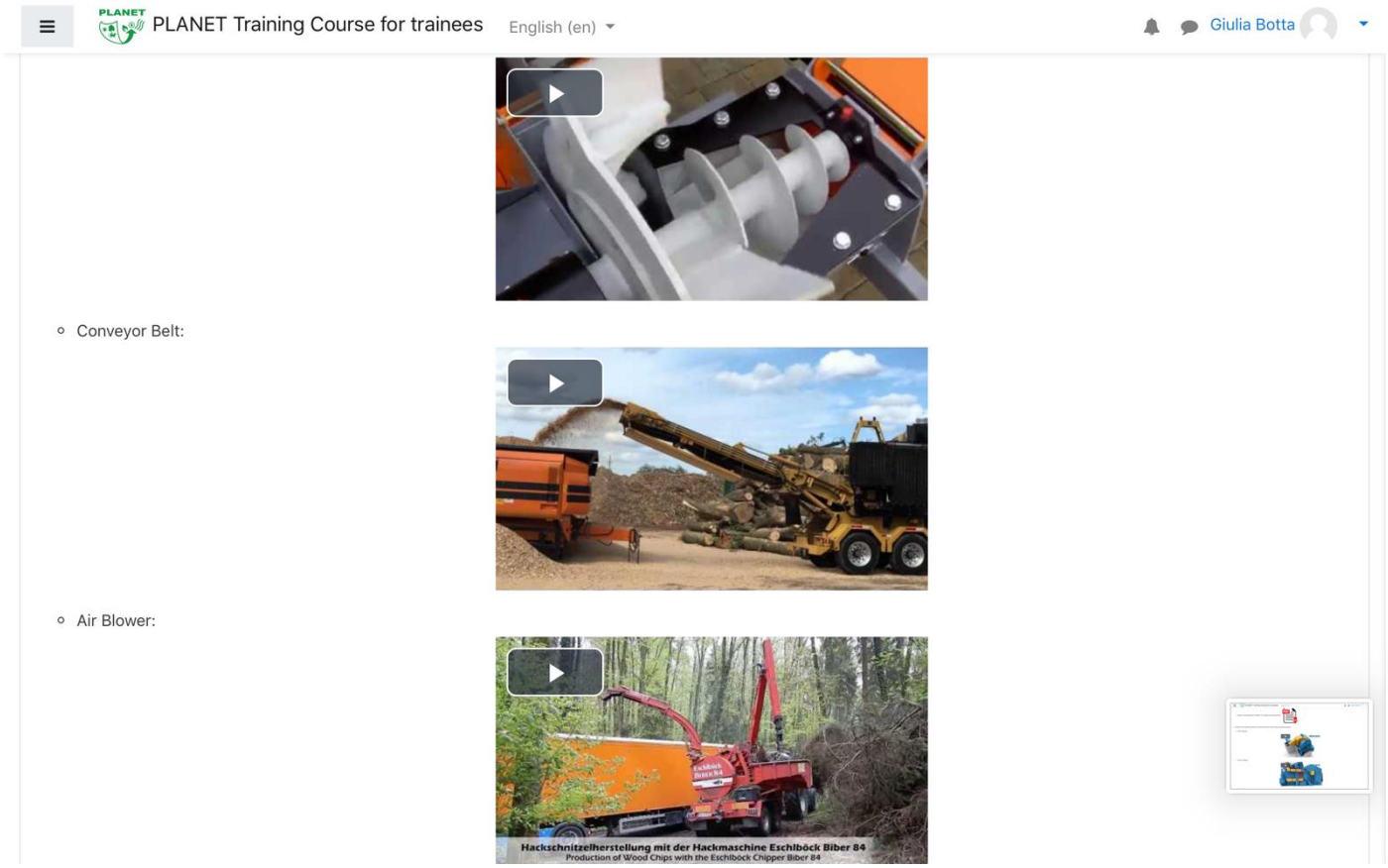


Figura 135

PLANET – PLan for Agriculture reNewable Energy Training

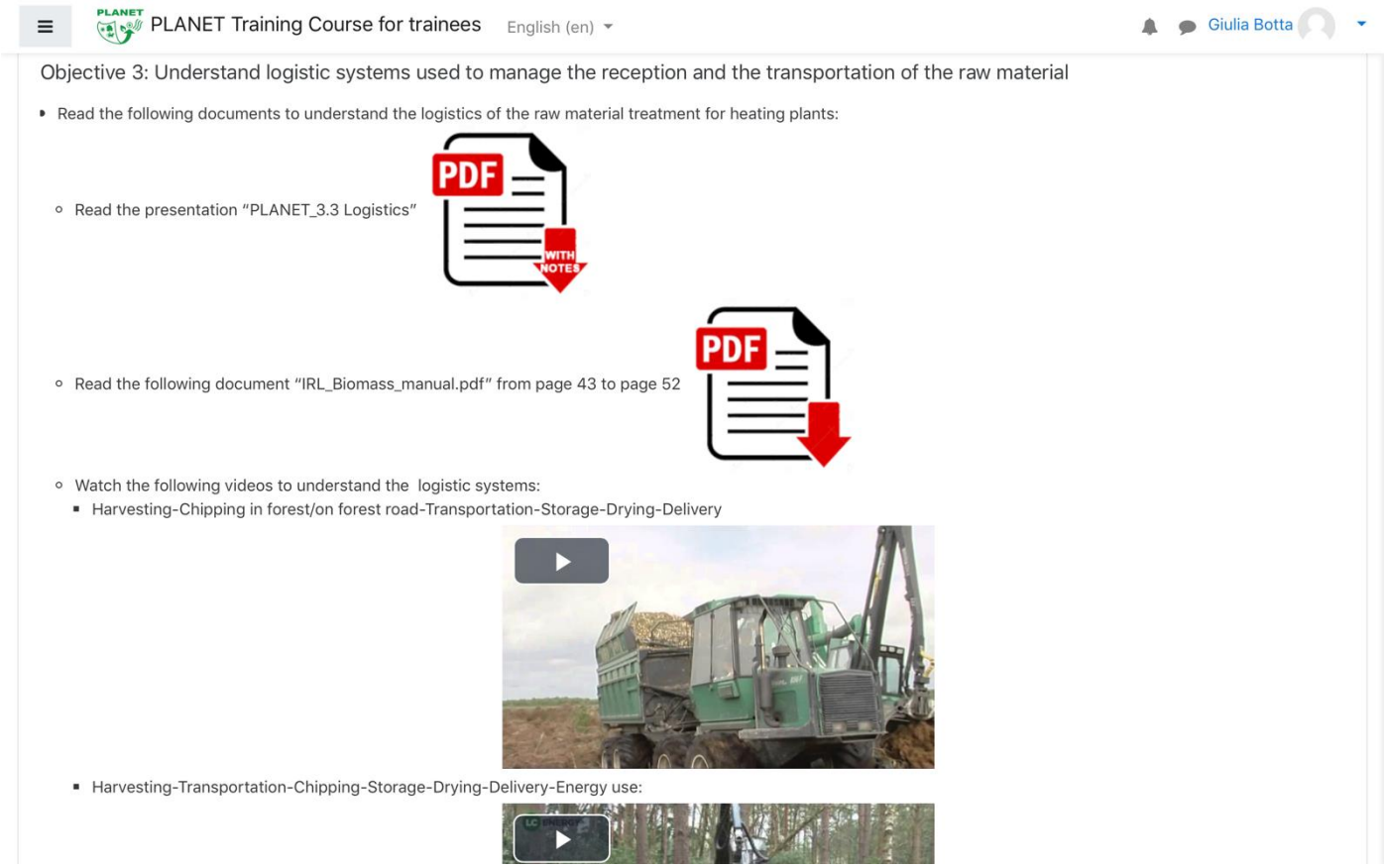


Figura 136

PLANET – PLan for Agriculture reNewable Energy Training

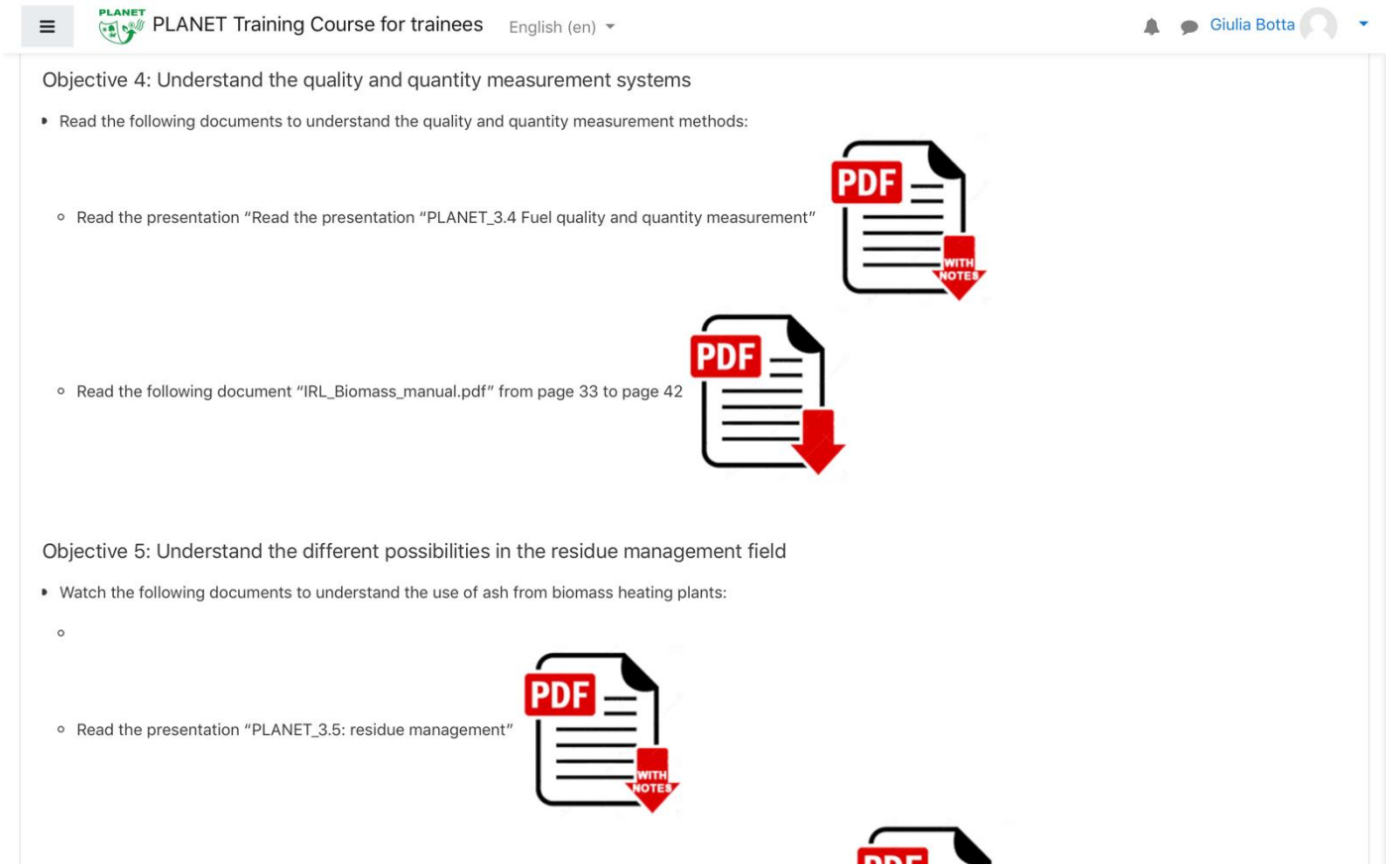


Figura 137

PLANET – PLan for Agriculture reNewable Energy Training

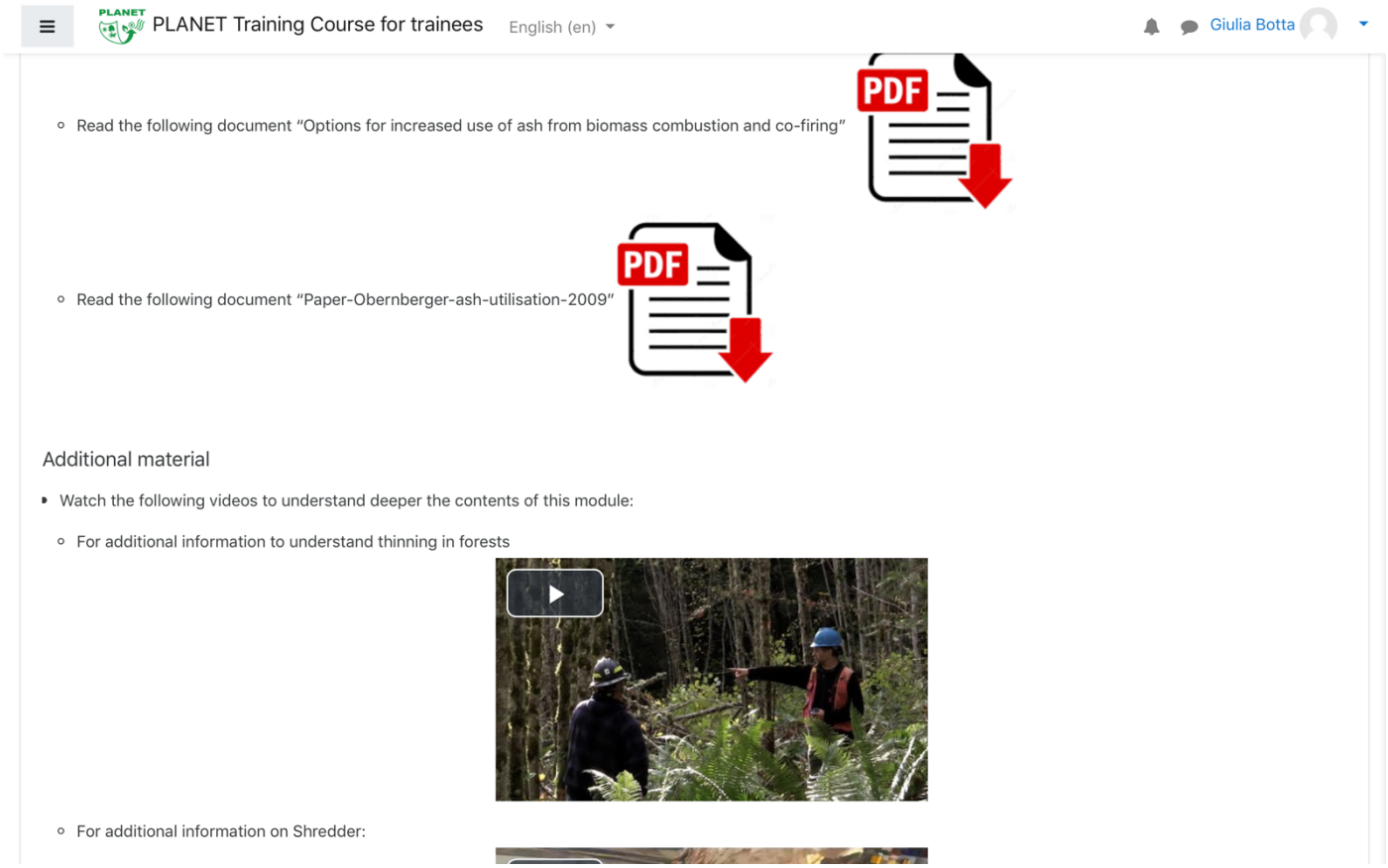


Figura 138

PLANET – PLan for Agriculture reNewable Energy Training

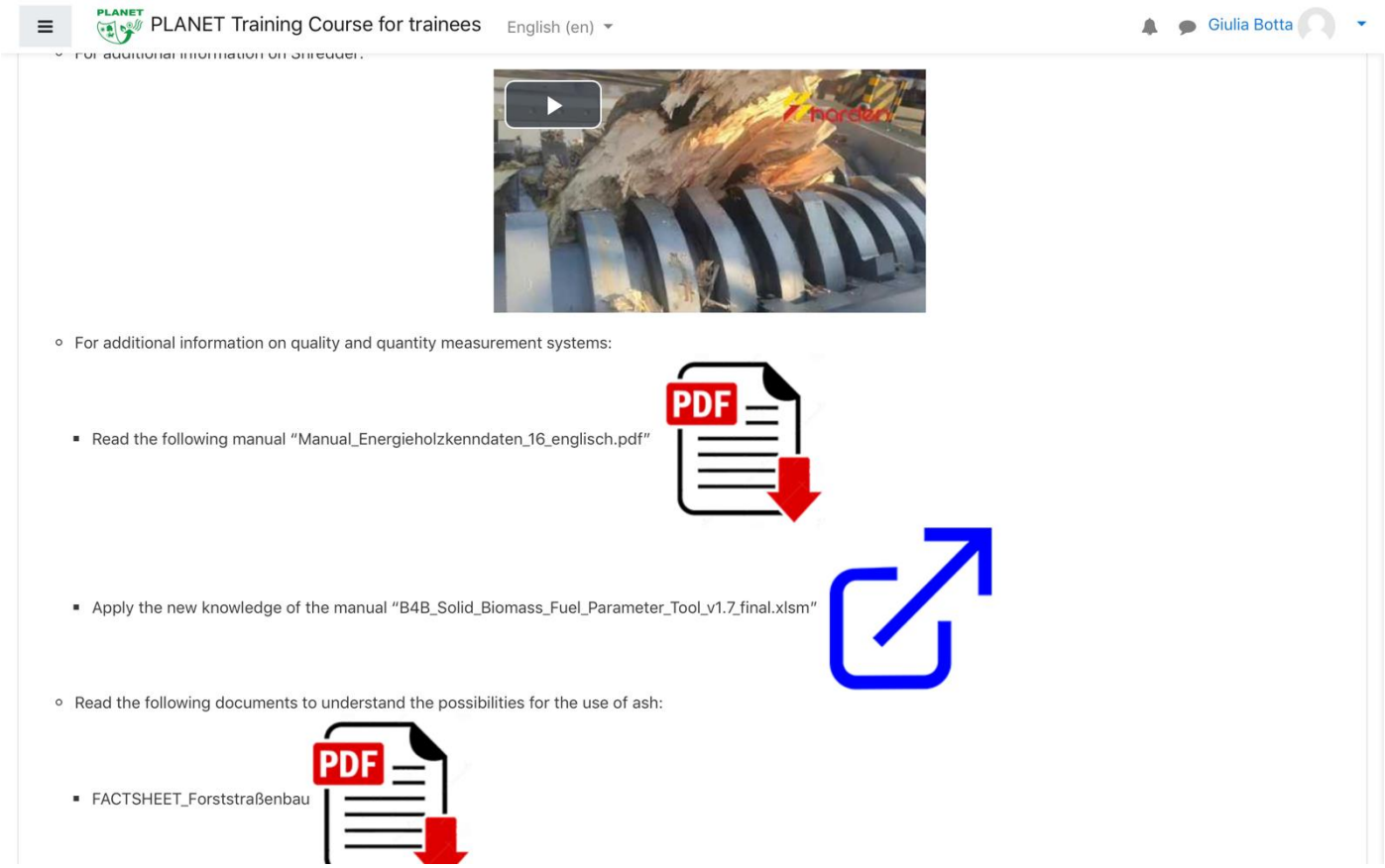


Figura 139

PLANET – PLan for Agriculture reNewable Energy Training

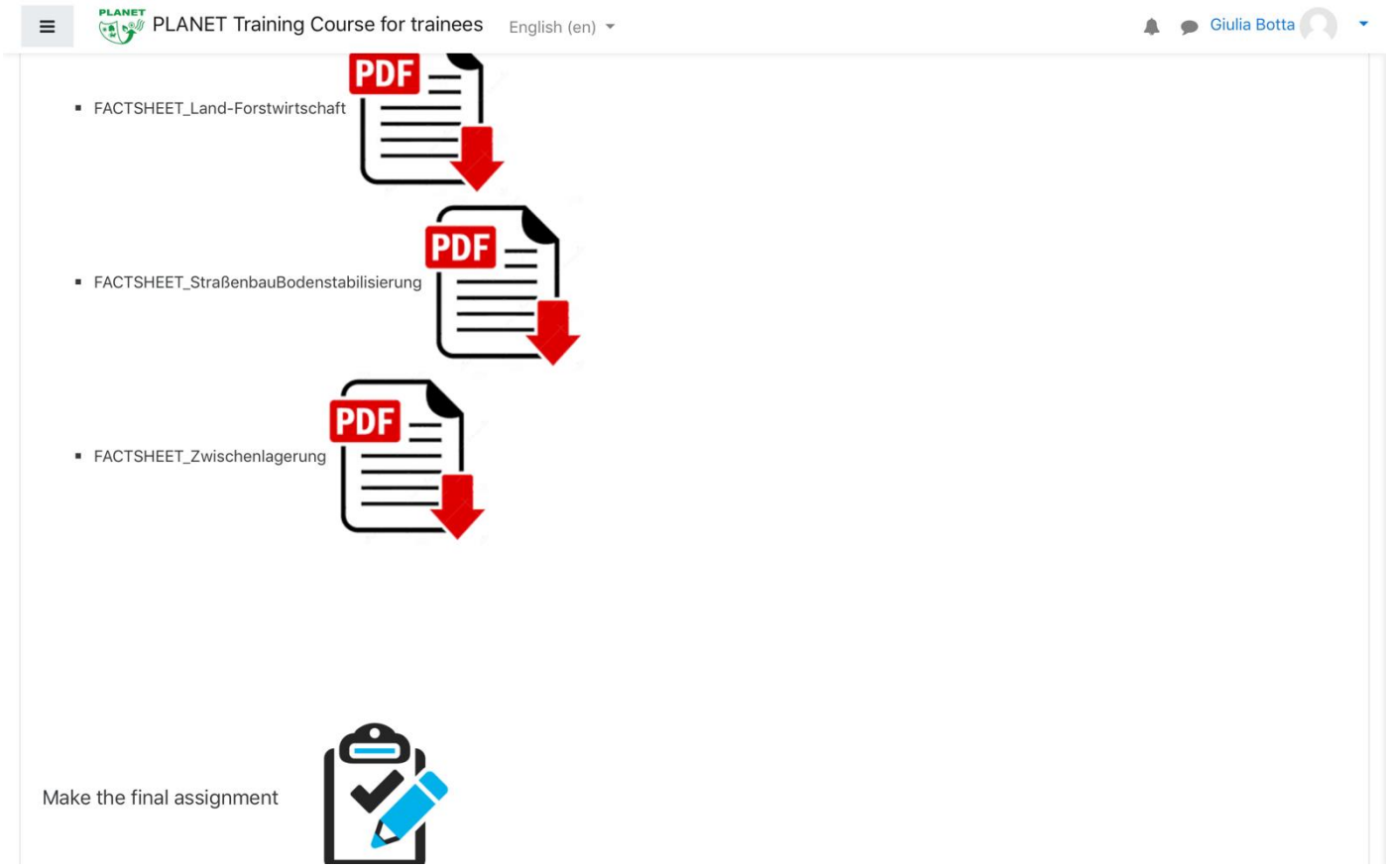


Figura 140

PLANET – PLan for Agriculture reNewable Energy Training

FIVE:

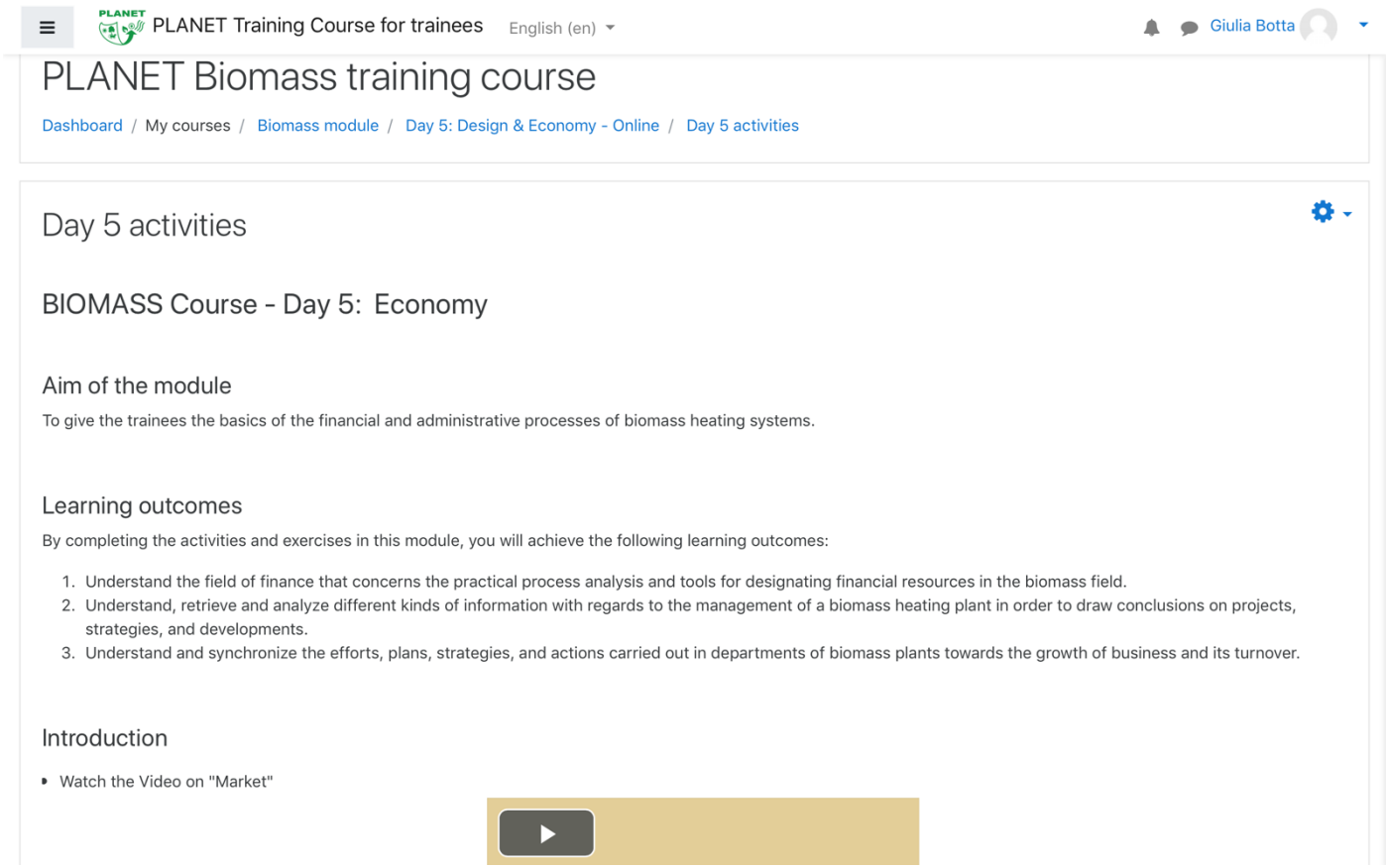


Figura 141

PLANET – PLan for Agriculture reNewable Energy Training

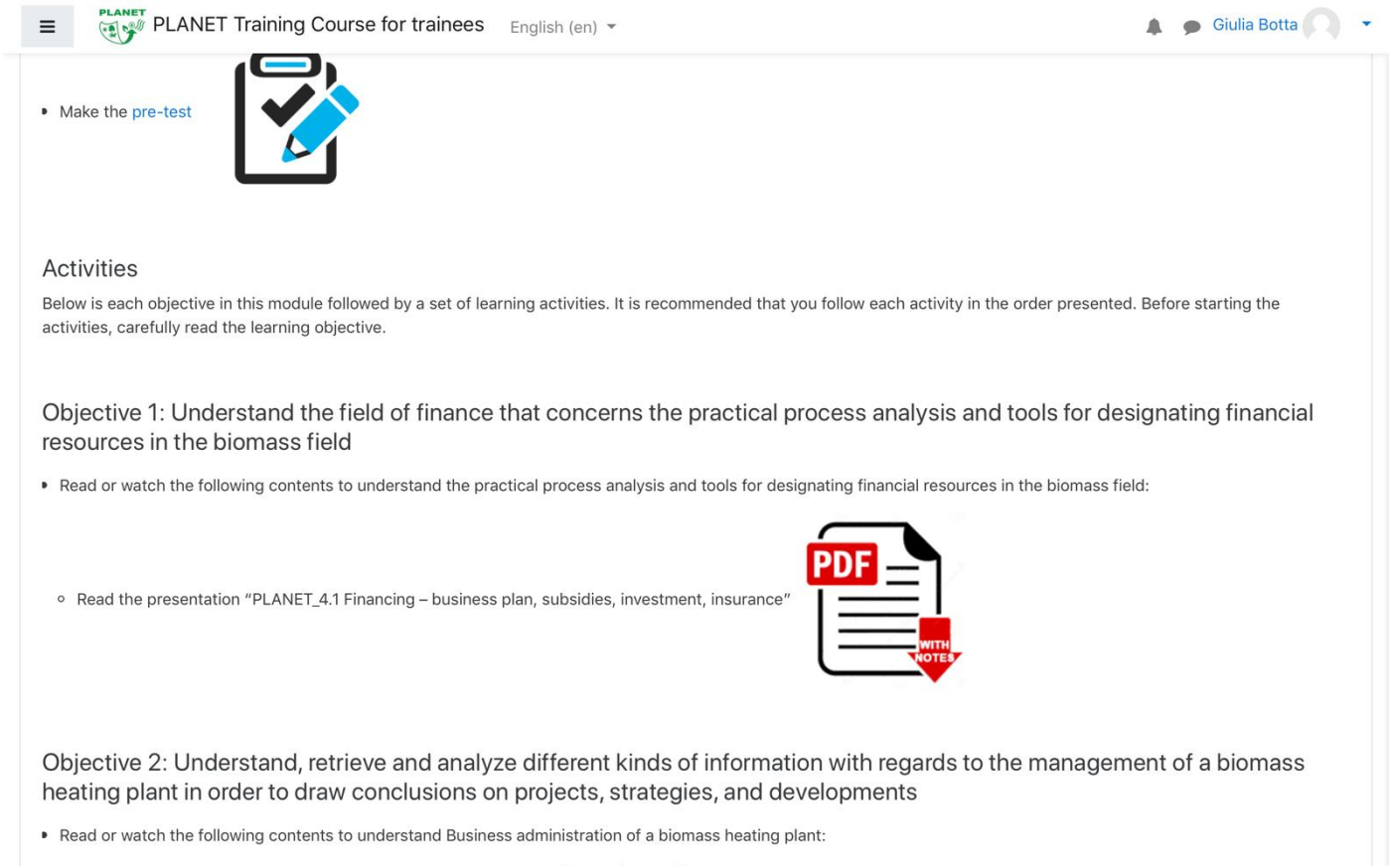


Figura 142

PLANET – PLan for Agriculture reNewable Energy Training

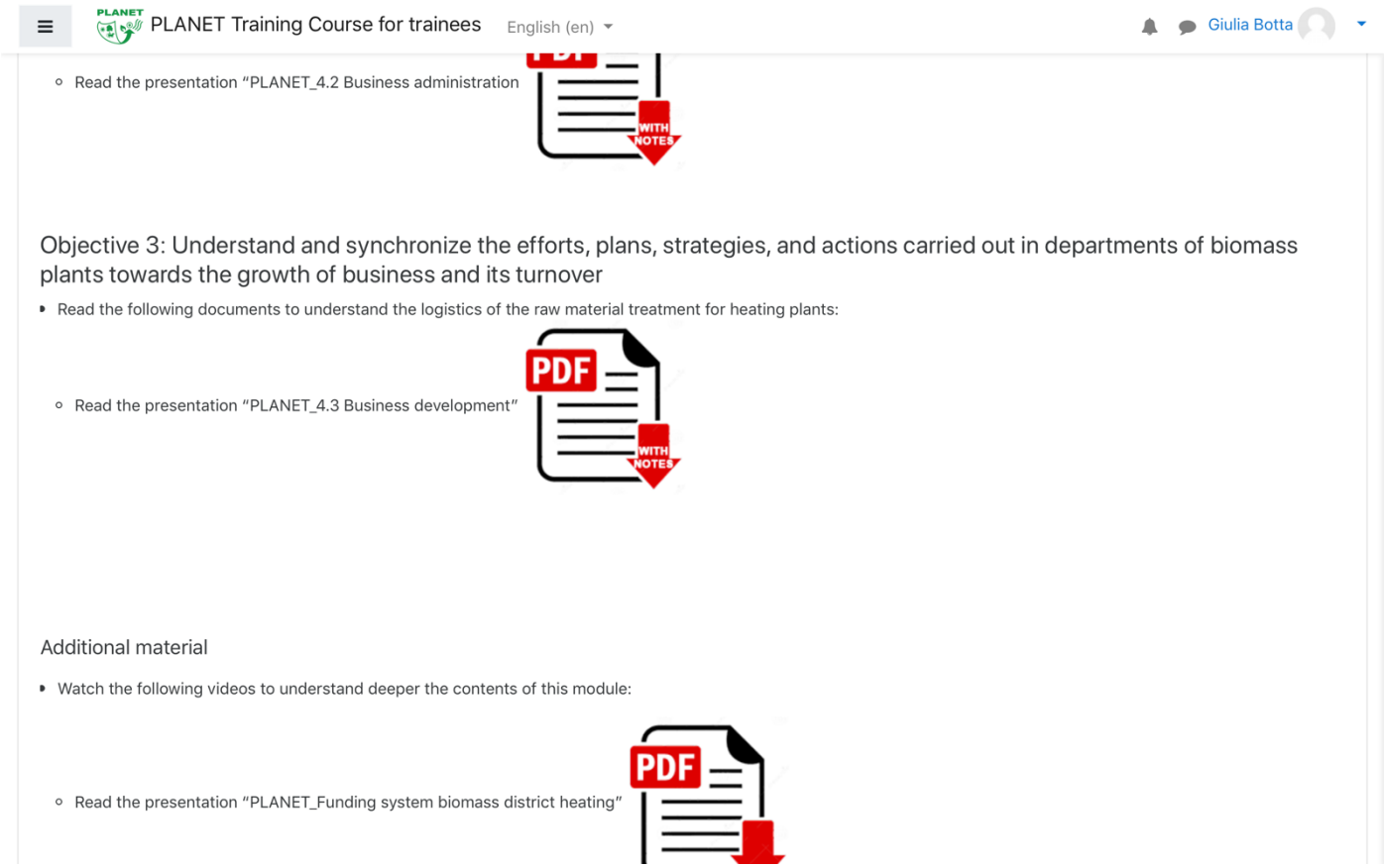


Figura 143

PLANET – PLan for Agriculture reNewable Energy Training

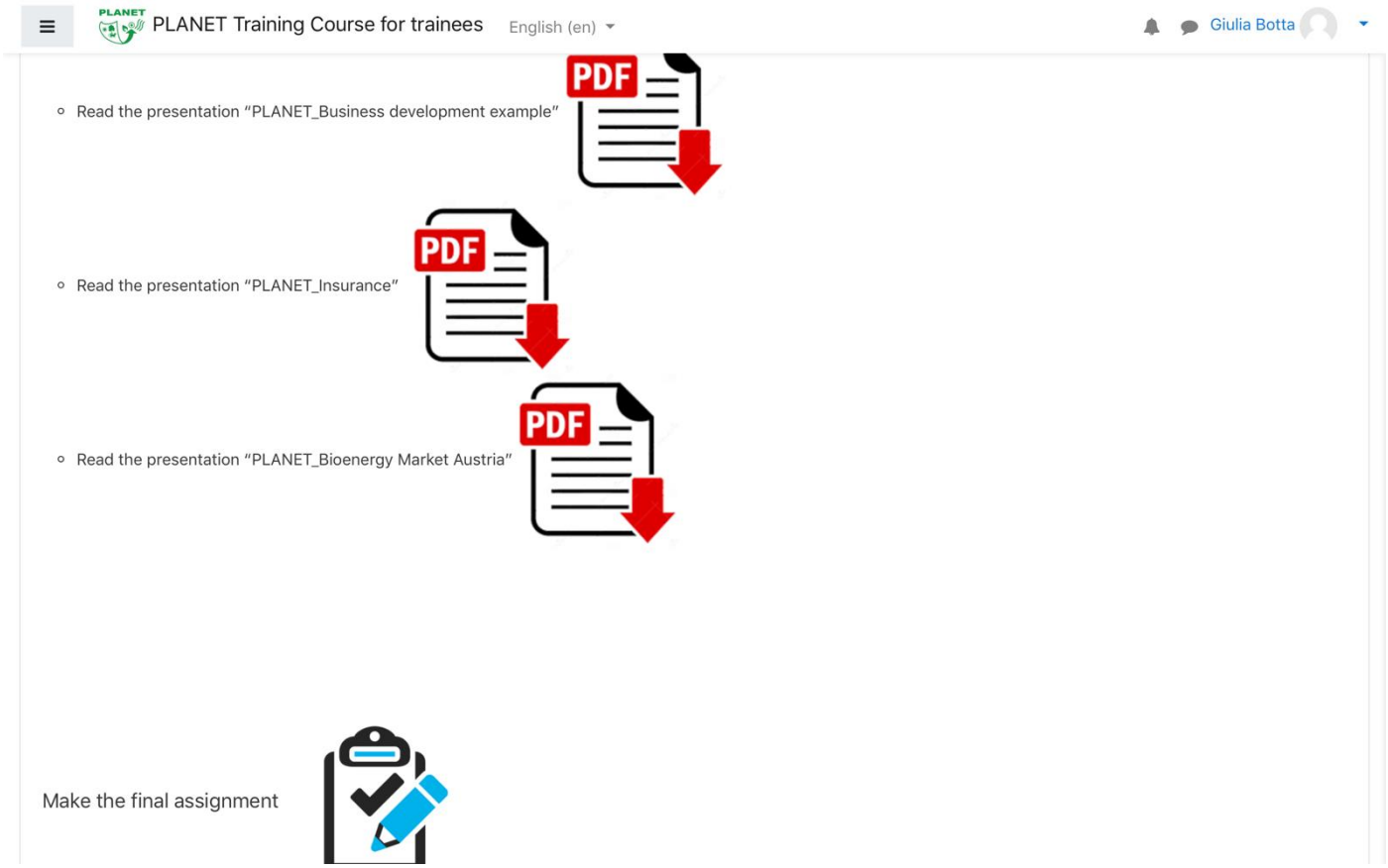


Figura 144

Six:

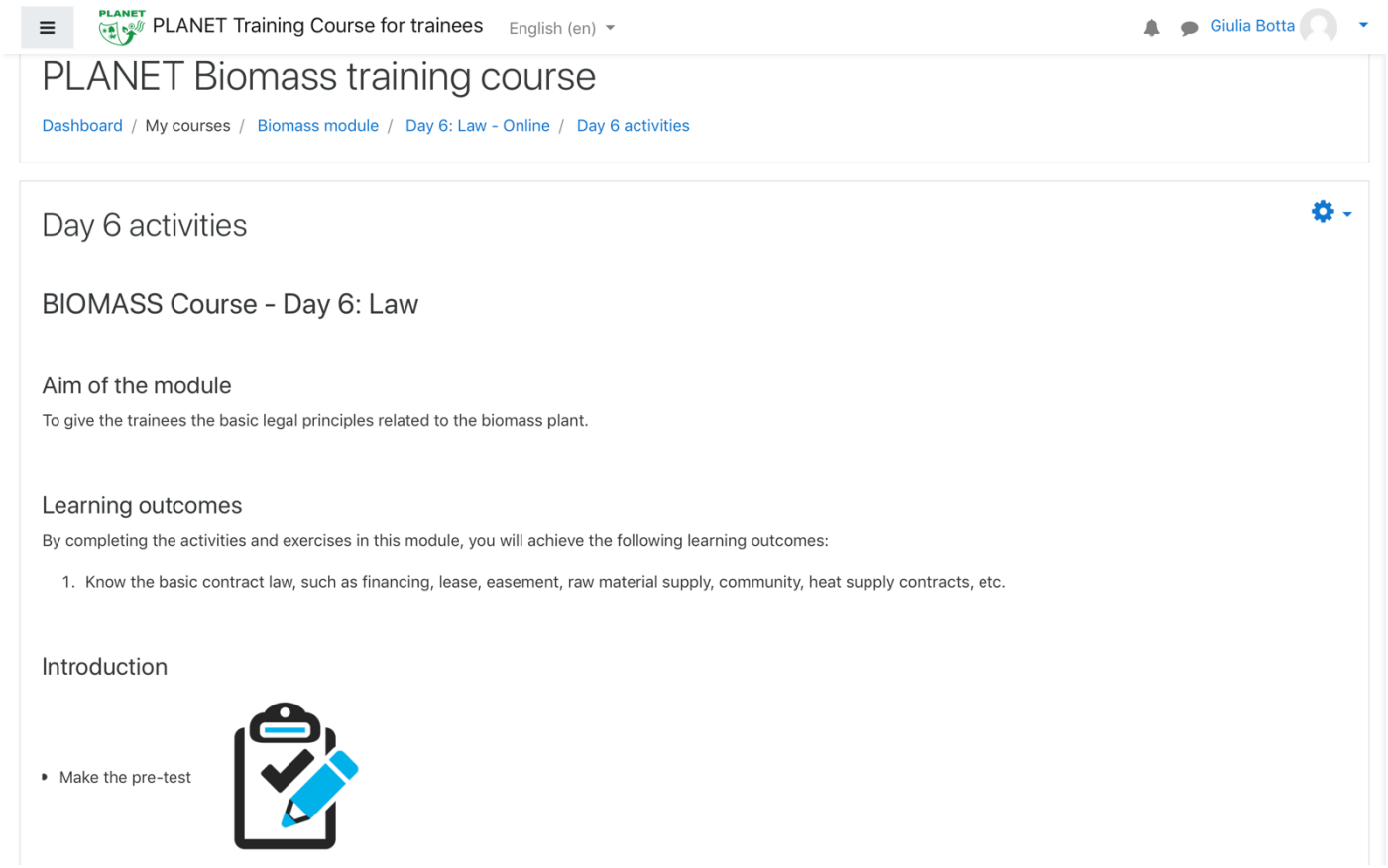


Figura 145

PLANET – PLan for Agriculture reNewable Energy Training

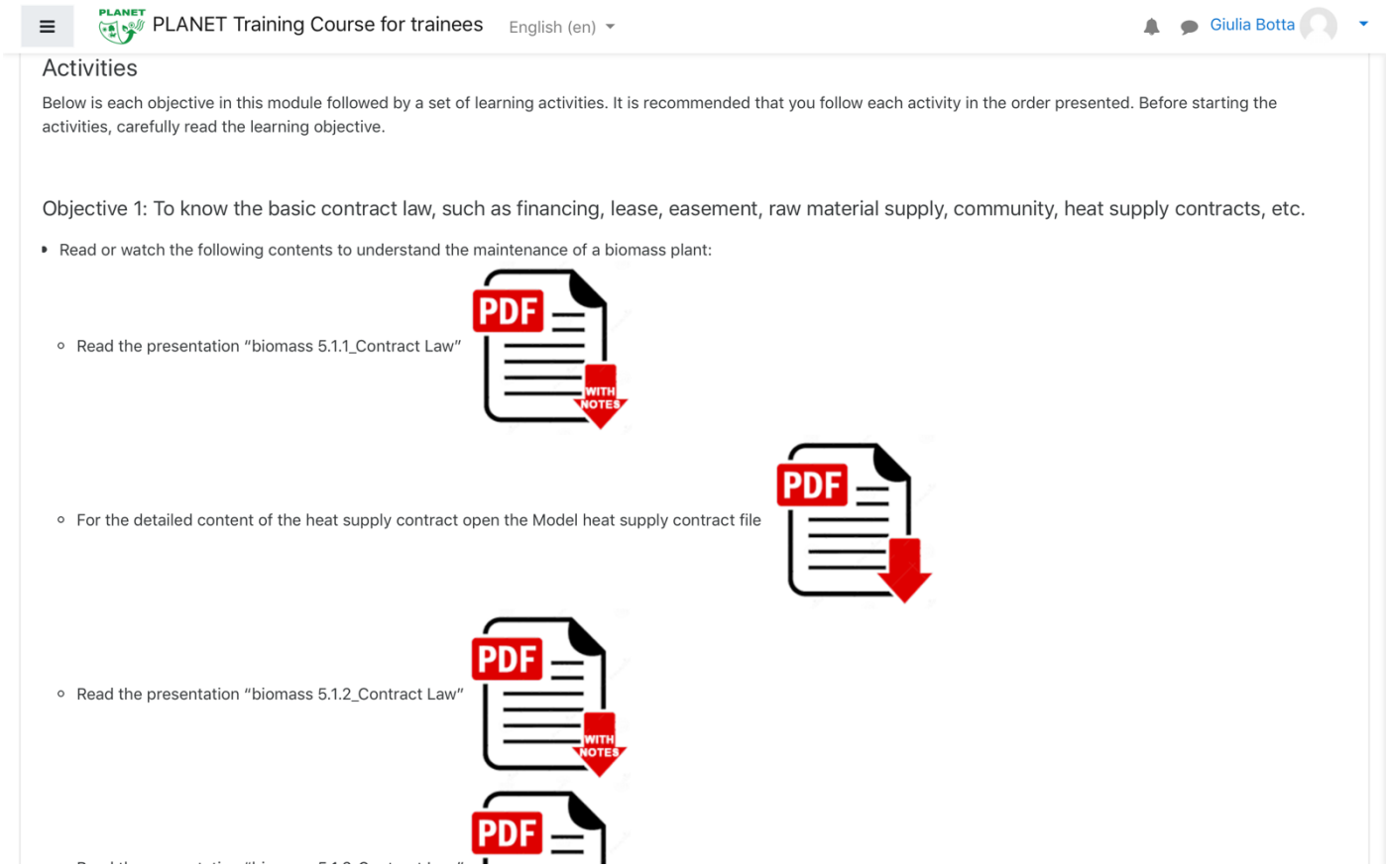


Figura 146

PLANET – PLan for Agriculture reNewable Energy Training

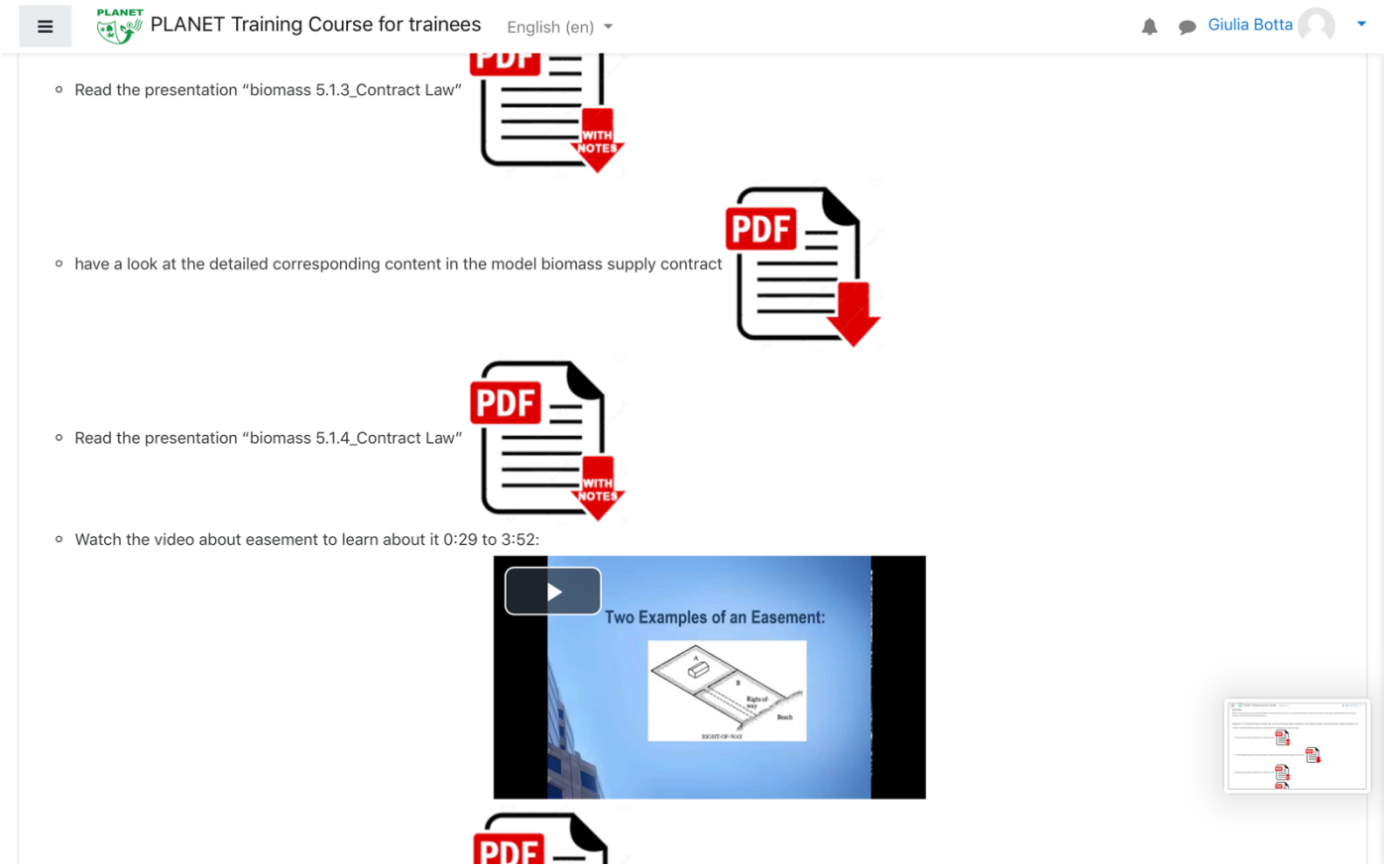


Figura 147

PLANET – PLan for Agriculture reNewable Energy Training

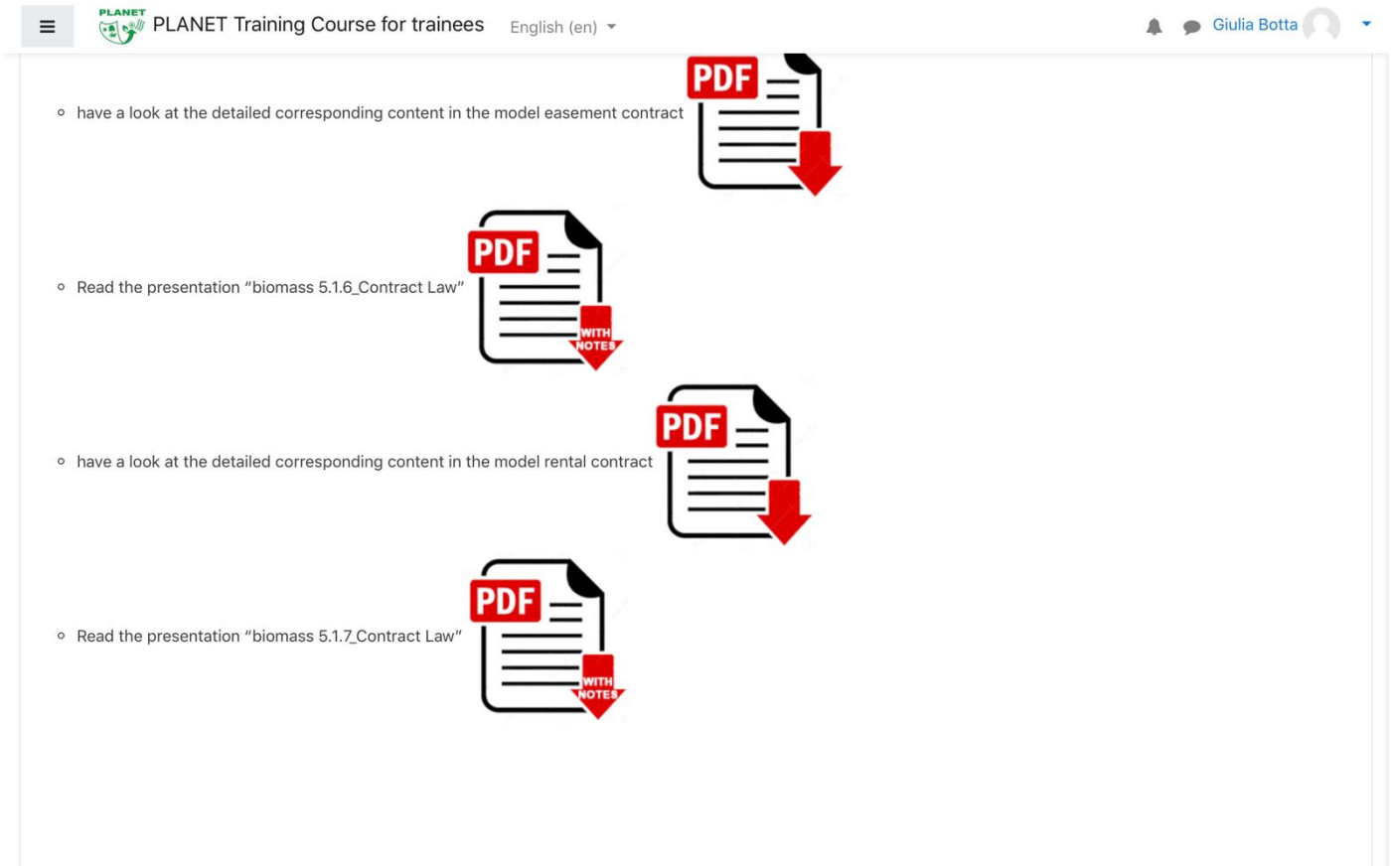


Figura 148

PLANET – PLan for Agriculture reNewable Energy Training

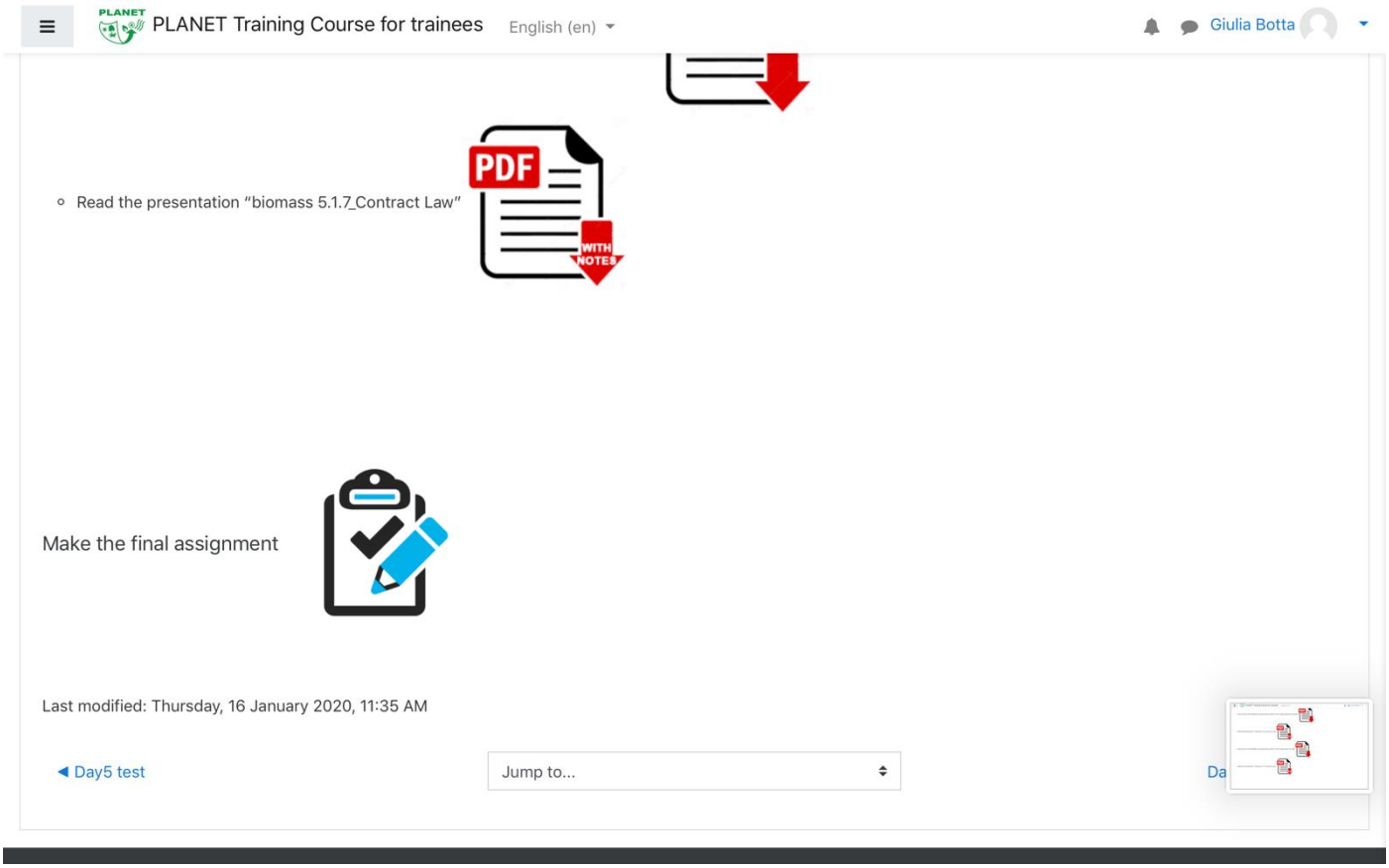


Figura 149

PLANET – PLan for Agriculture reNewable Energy Training

SEVEN:

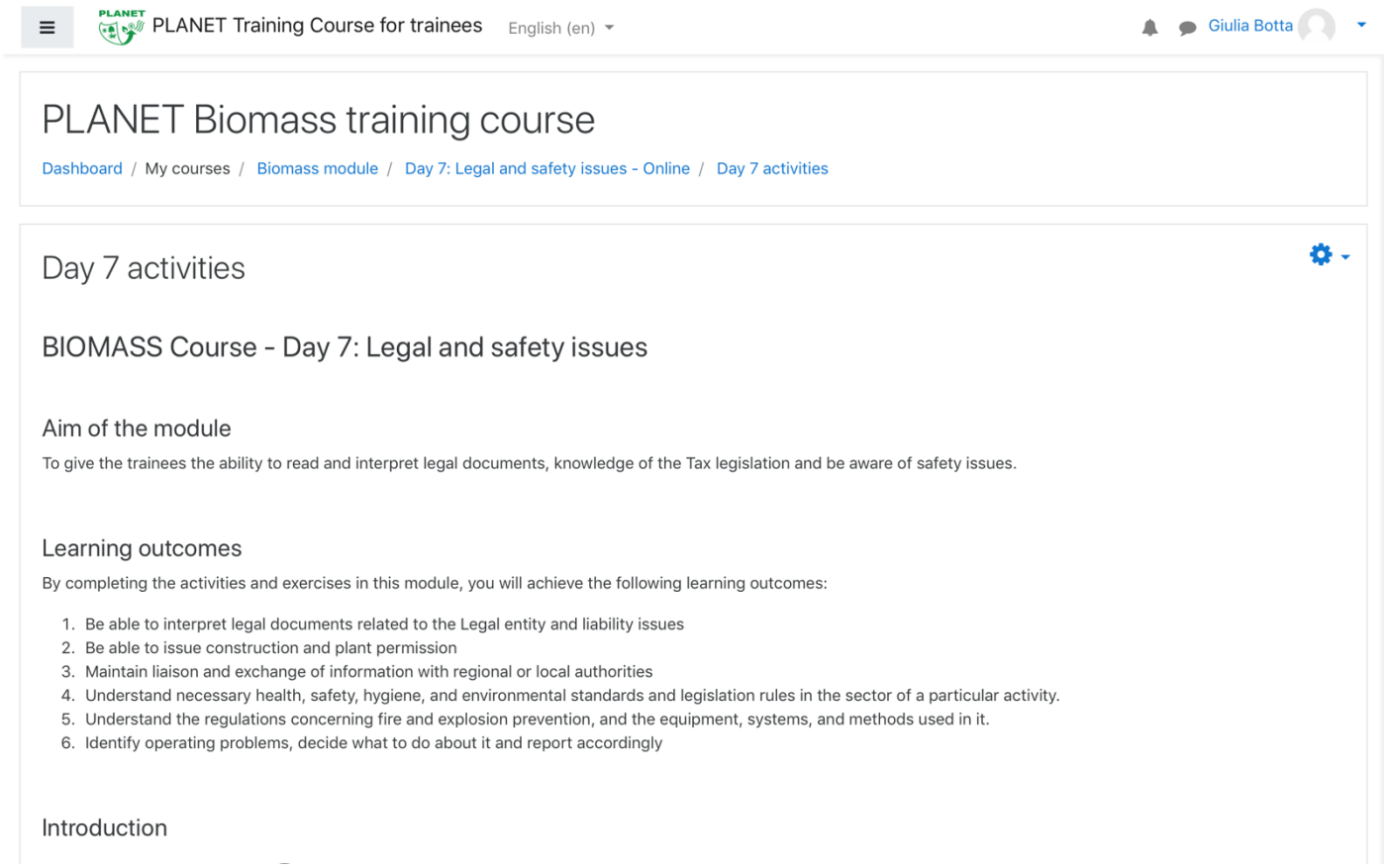


Figura 150

PLANET – PLan for Agriculture reNewable Energy Training

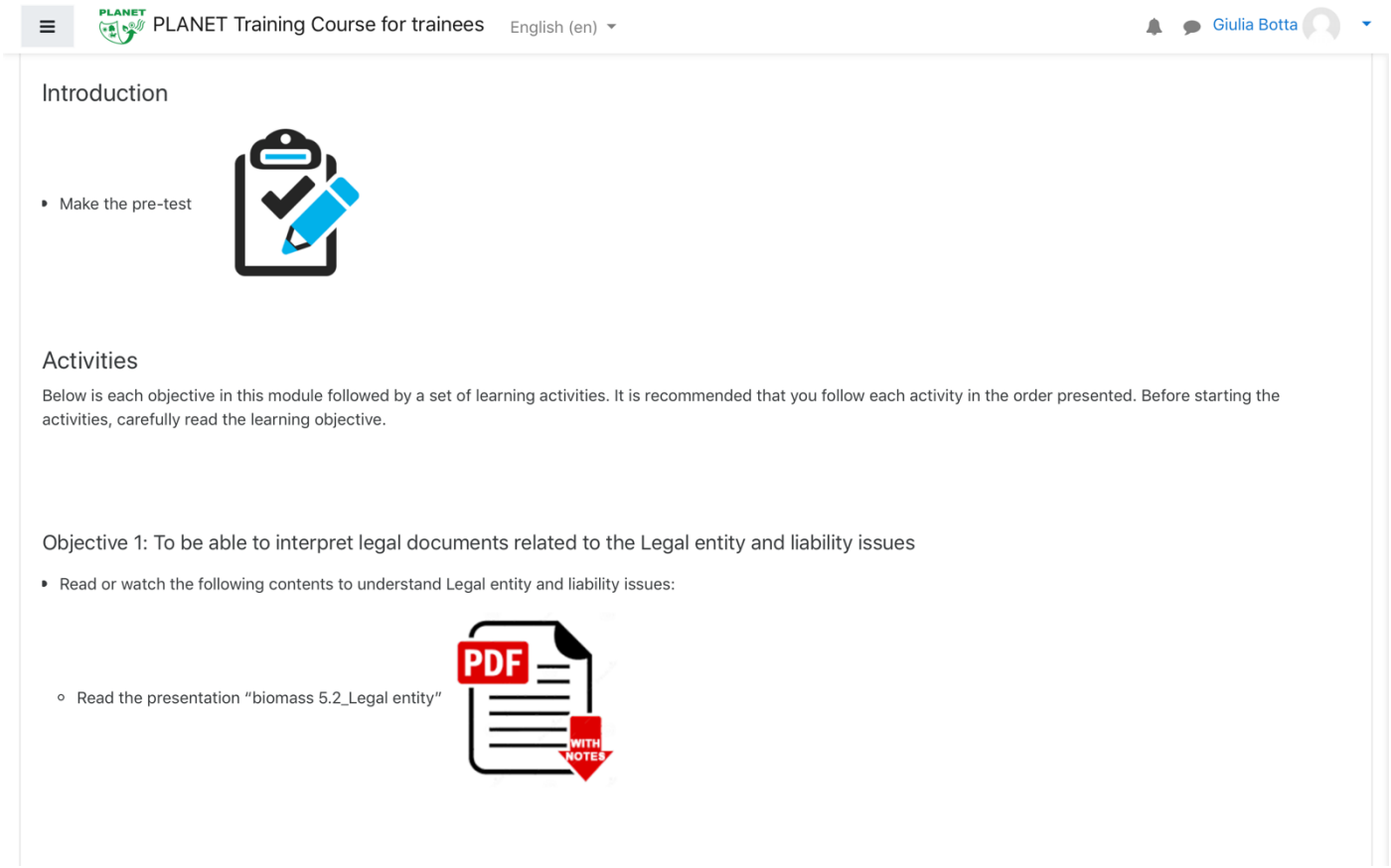


Figura 151

PLANET – PLan for Agriculture reNewable Energy Training

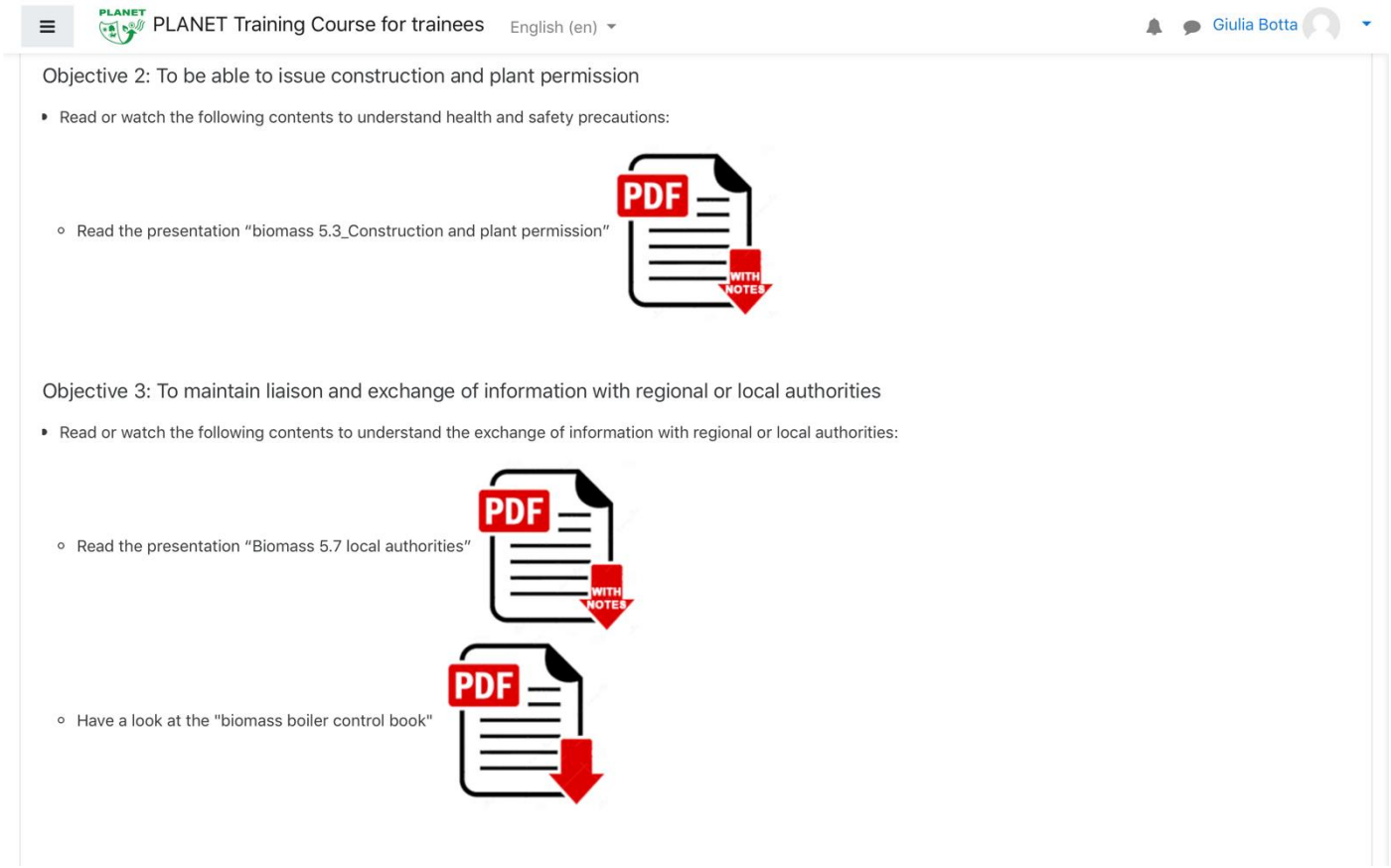


Figura 152

PLANET – PLan for Agriculture reNewable Energy Training

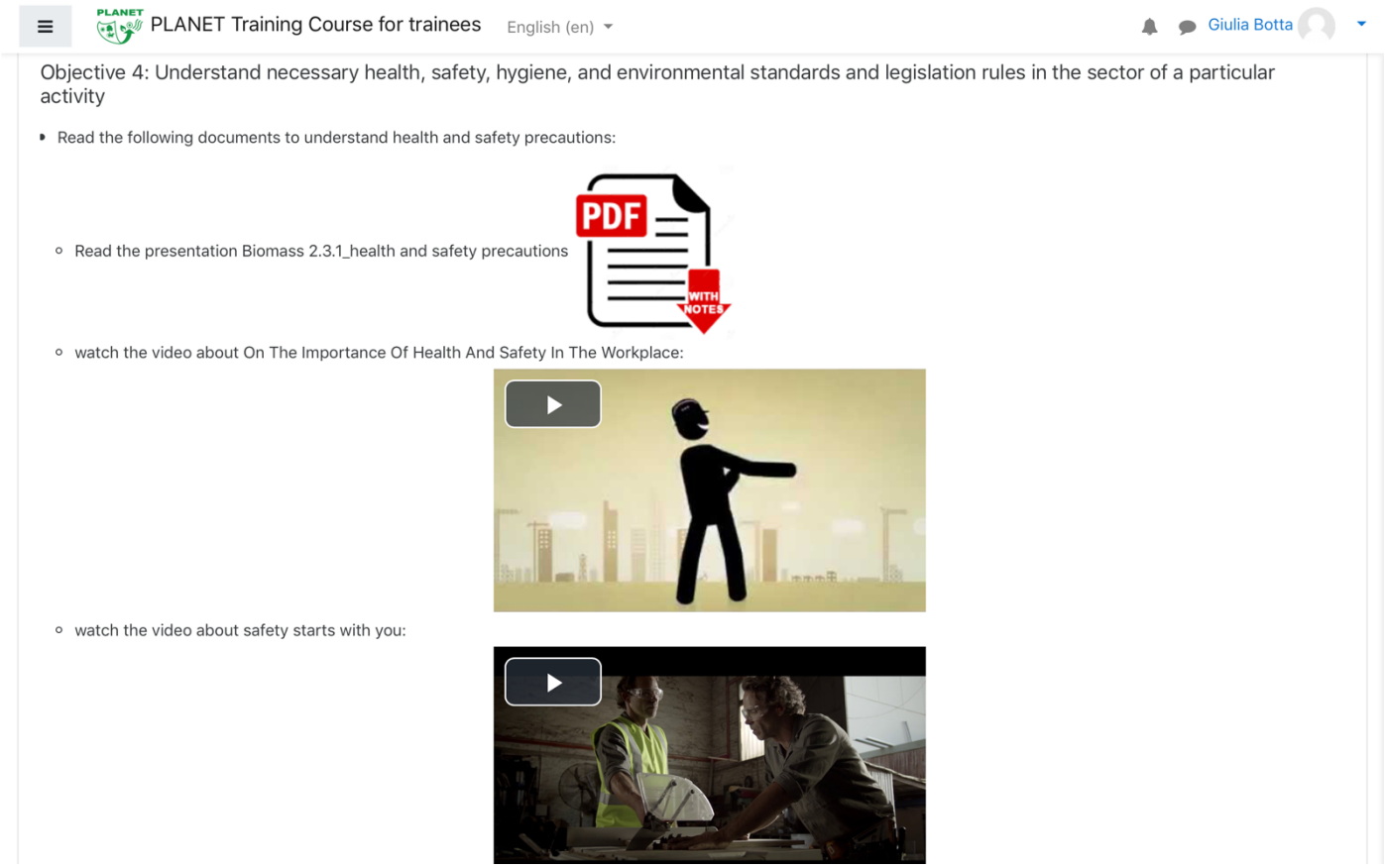


Figura 153

PLANET – PLan for Agriculture reNewable Energy Training

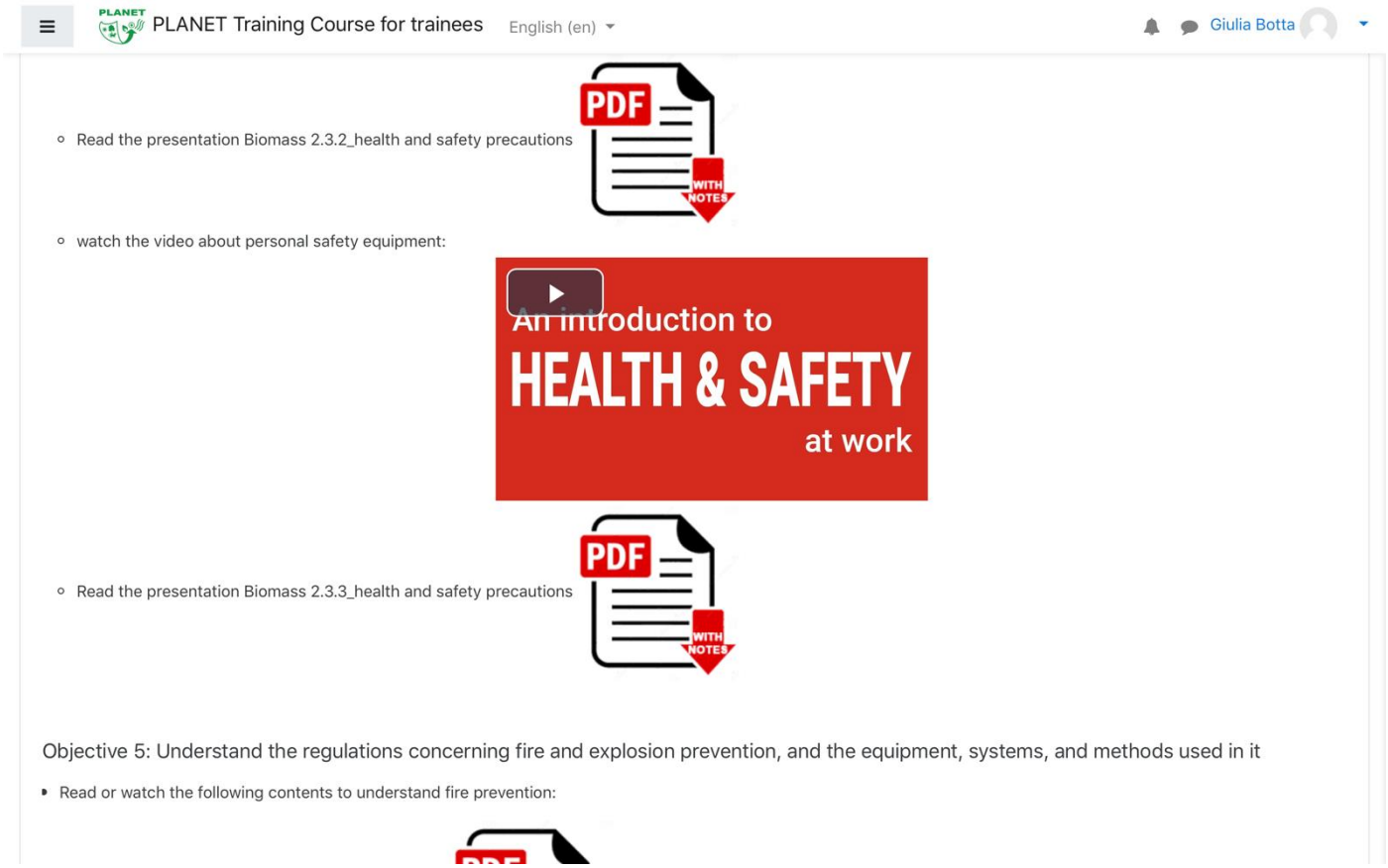


Figura 154

PLANET – PLan for Agriculture reNewable Energy Training

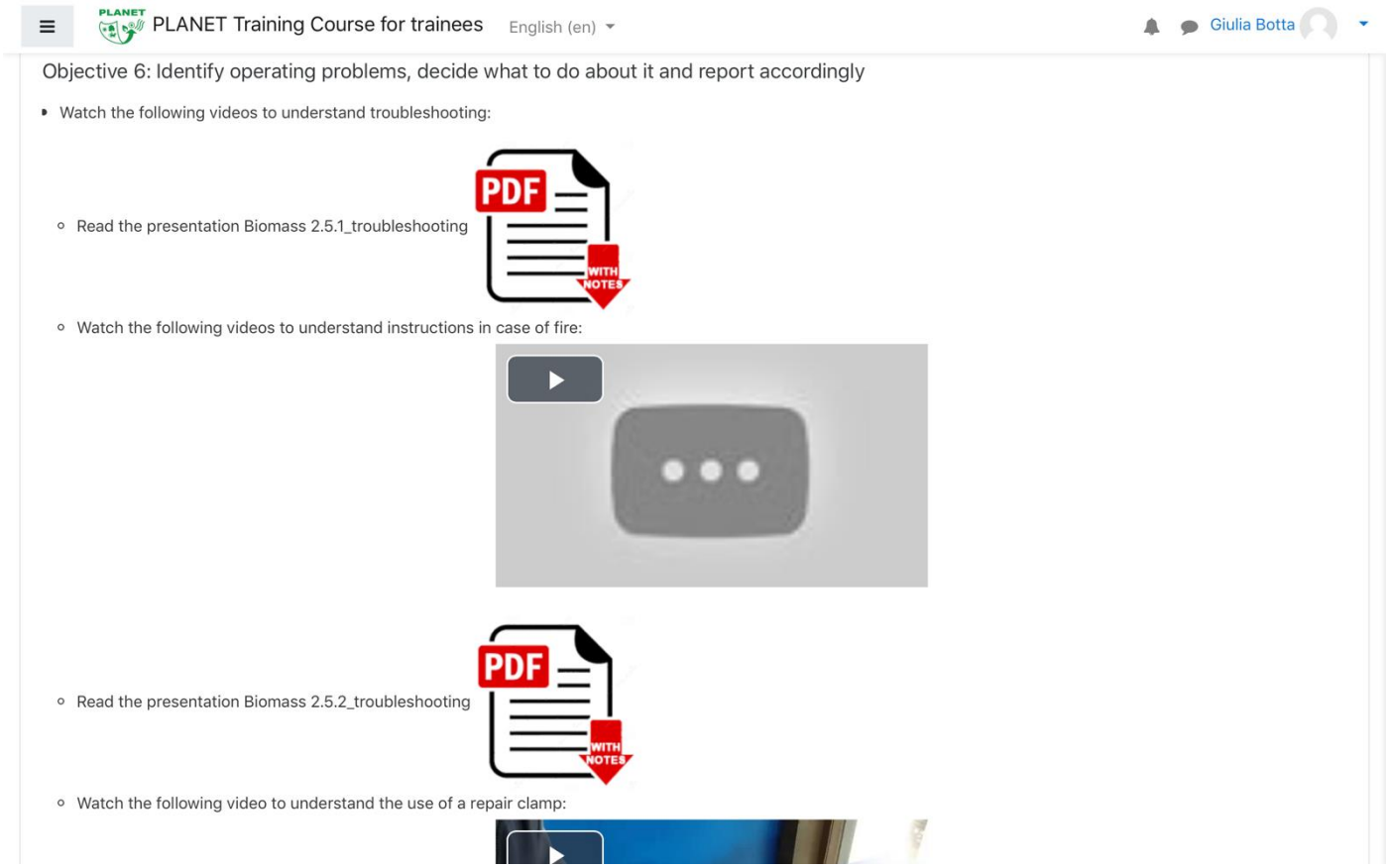


Figura 155

PLANET – PLan for Agriculture reNewable Energy Training

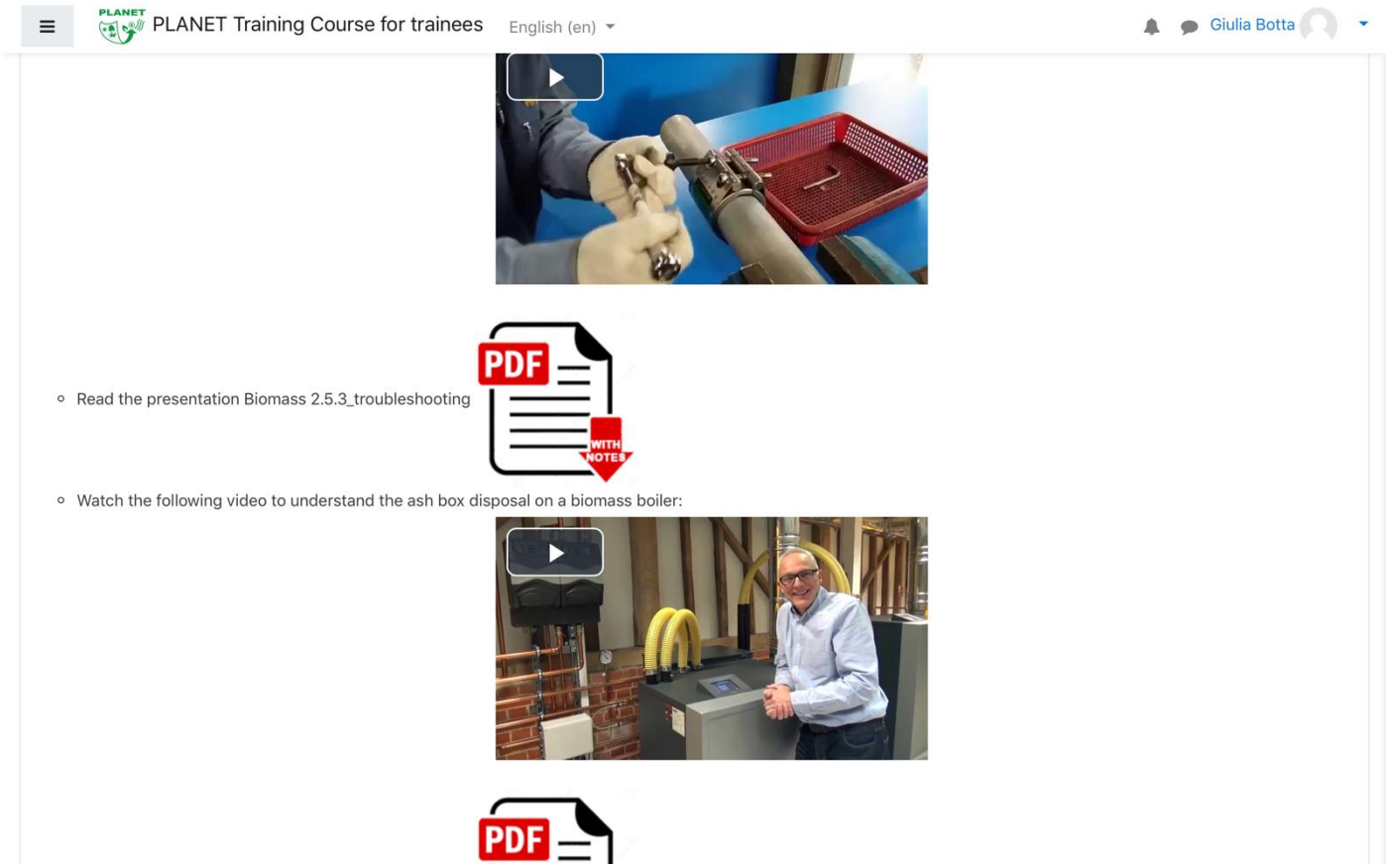


Figura 156

PLANET – PLan for Agriculture reNewable Energy Training

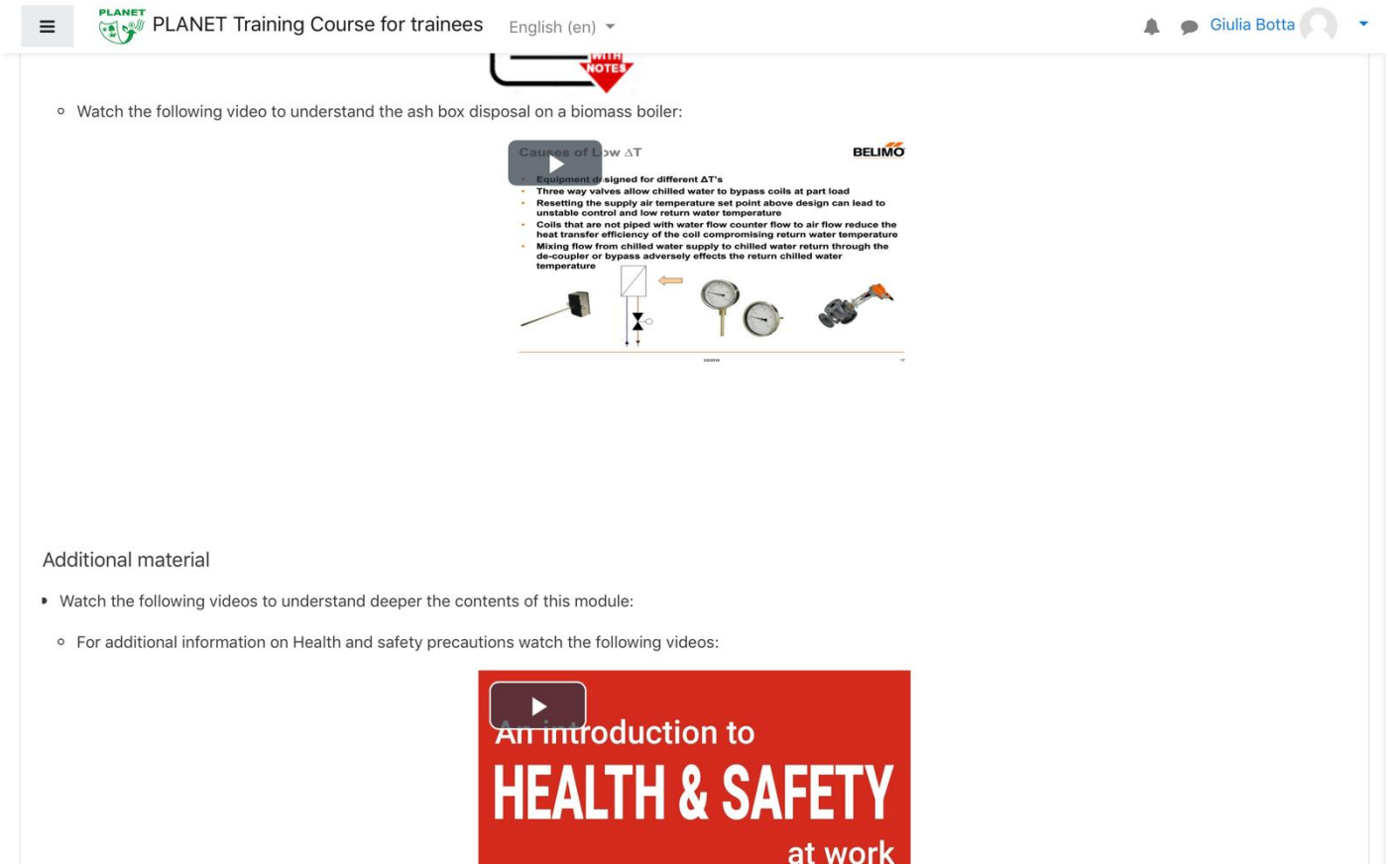


Figura 157

PLANET – PLan for Agriculture reNewable Energy Training

Figura 158

PLANET – PLan for Agriculture reNewable Energy Training

EIGHT:

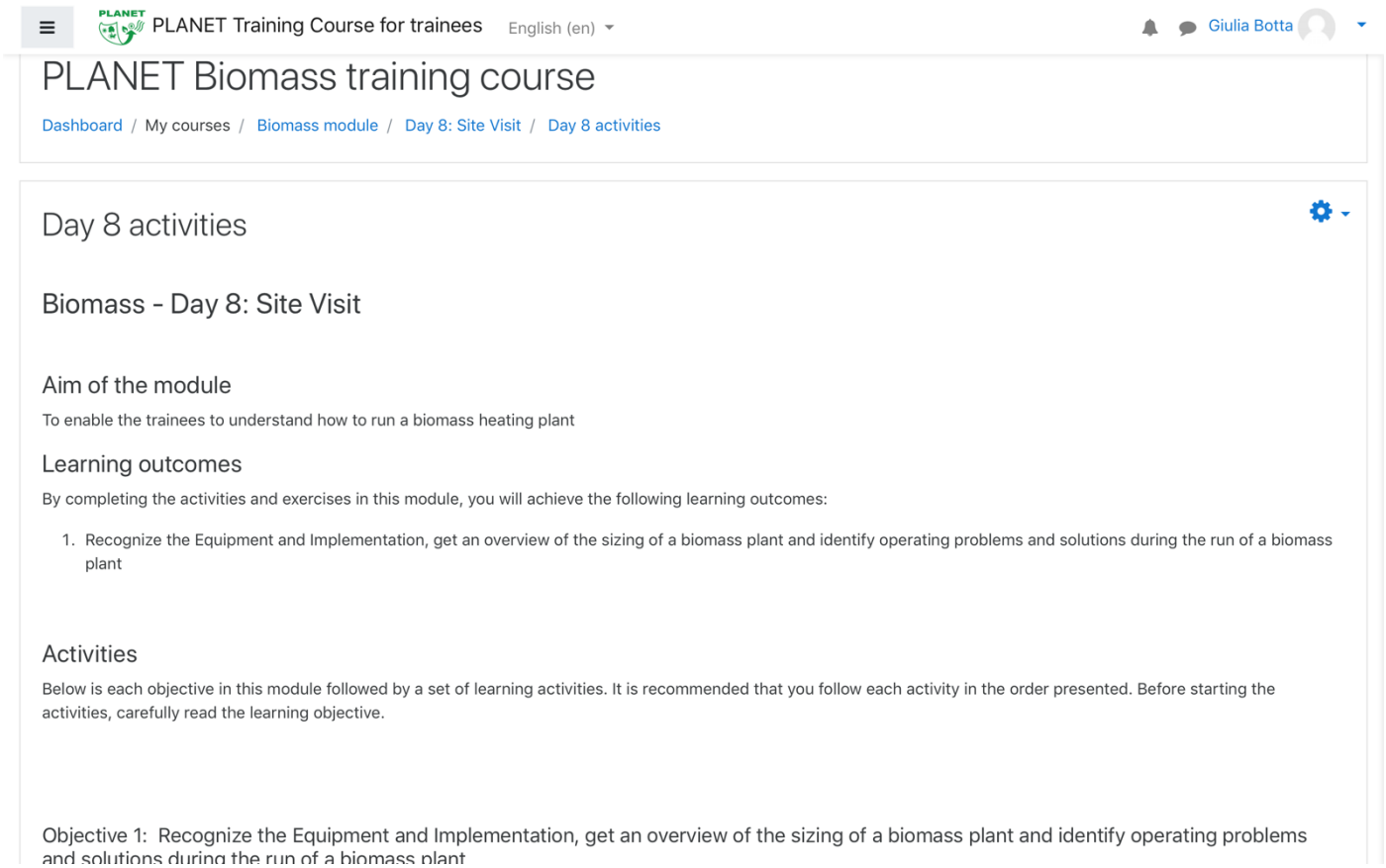


Figura 159

PLANET – PLan for Agriculture reNewable Energy Training

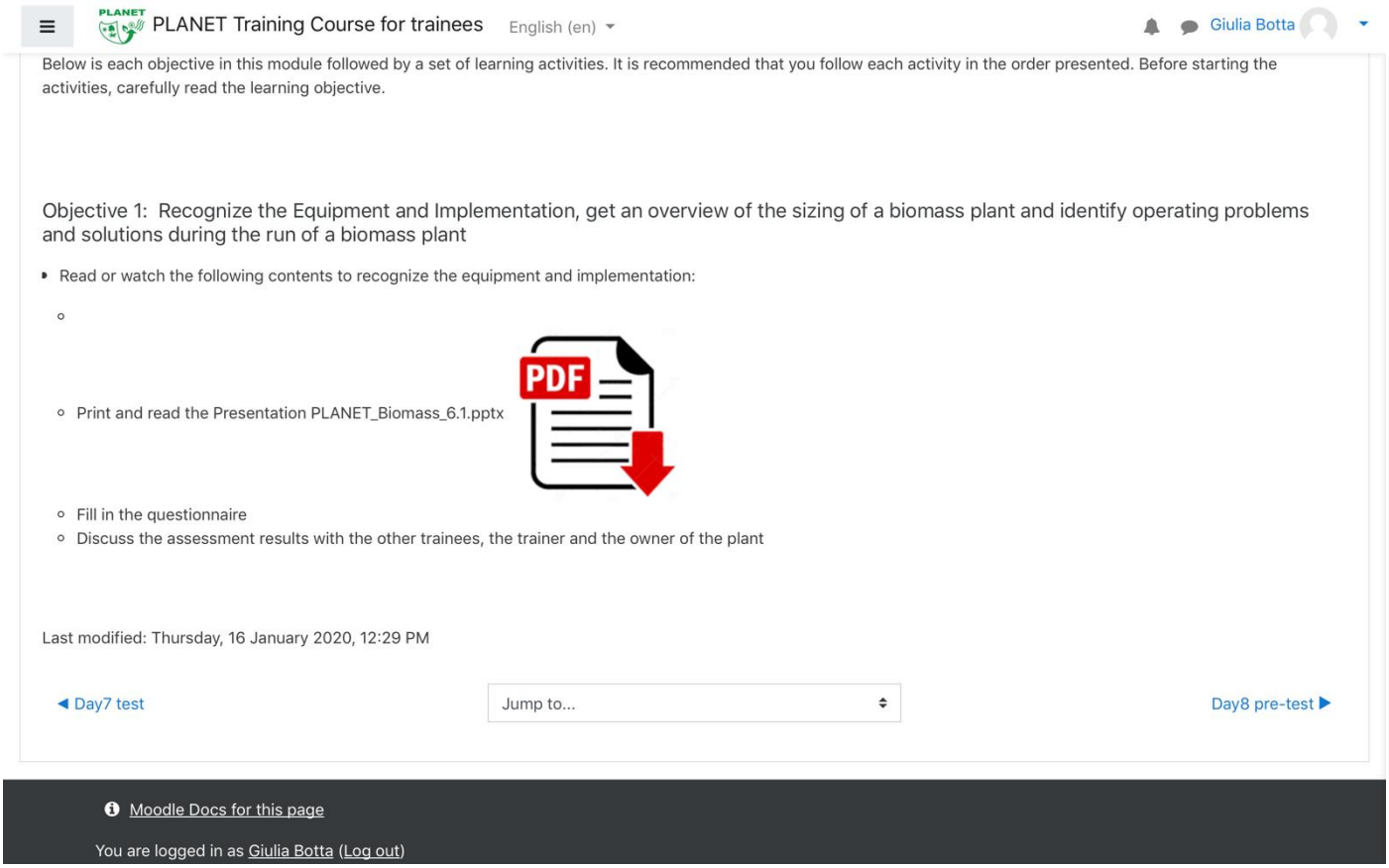


Figura 160

PLANET – PLan for Agriculture reNewable Energy Training

1.1 PLANET Biogas training course

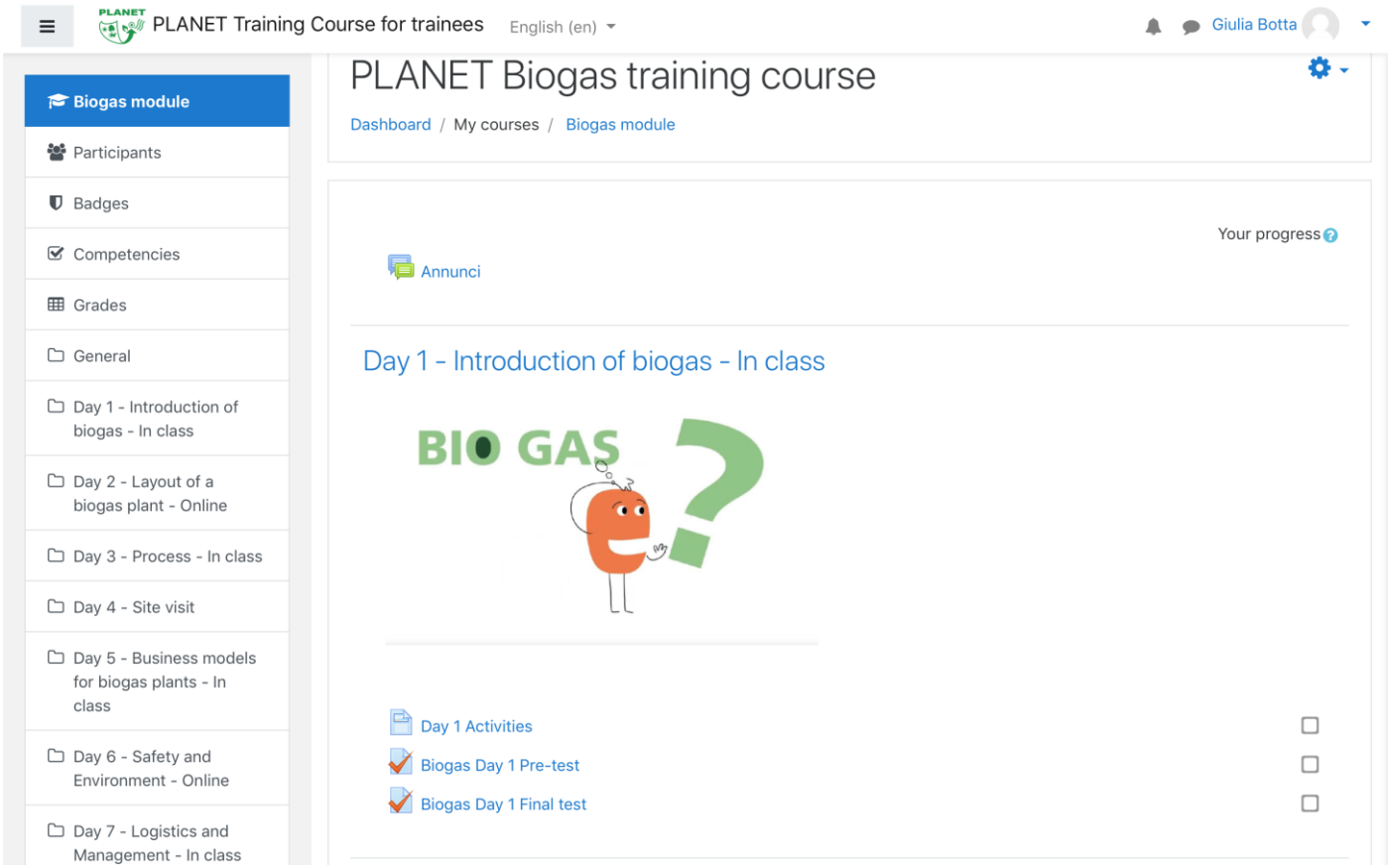
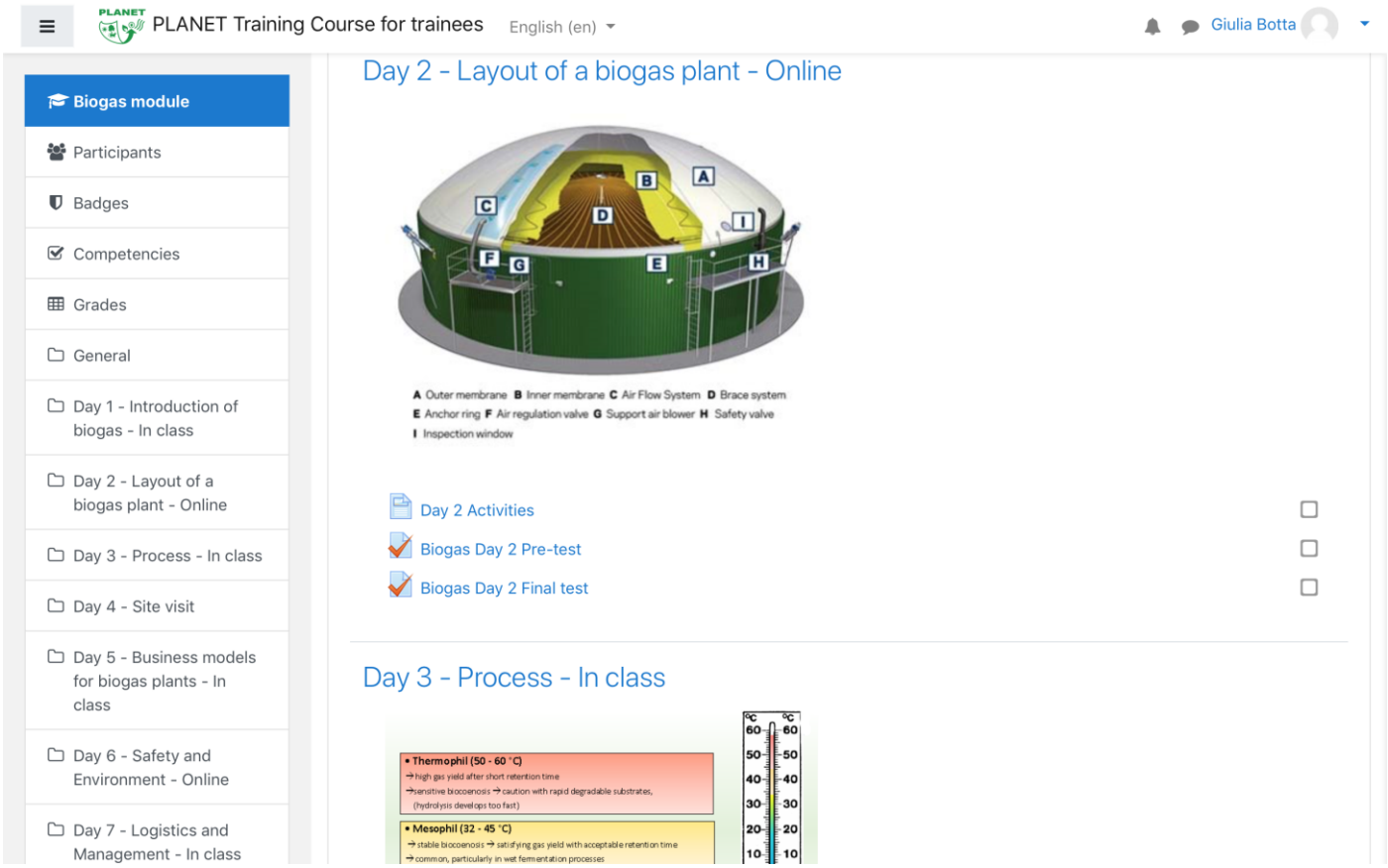


Figura 158

PLANET – PLan for Agriculture reNewable Energy Training



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PLANET – PLan for Agriculture reNewable Energy Training

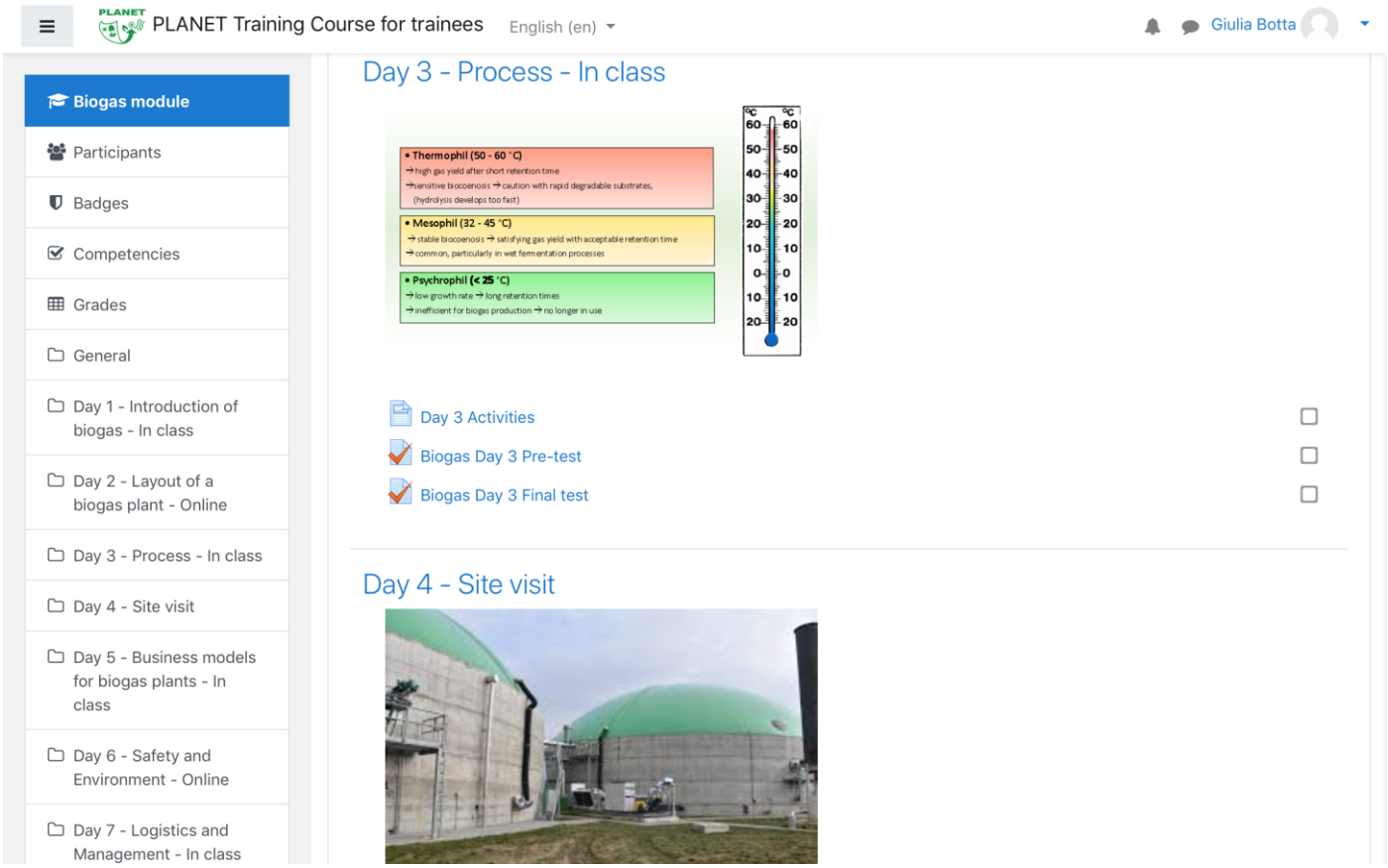


Figura 160

PLANET – PLan for Agriculture reNewable Energy Training

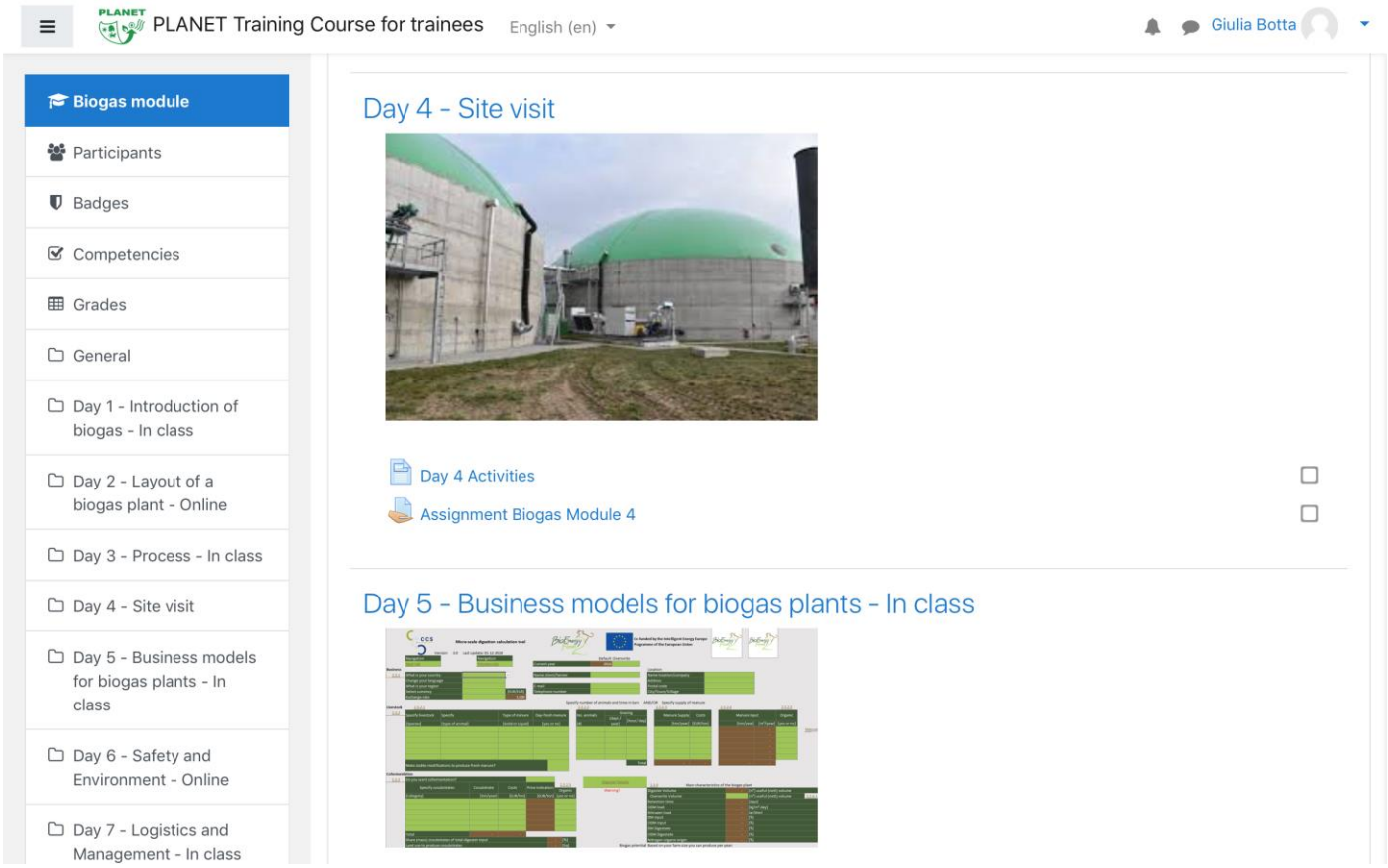


Figura 161

PLANET – PLan for Agriculture reNewable Energy Training

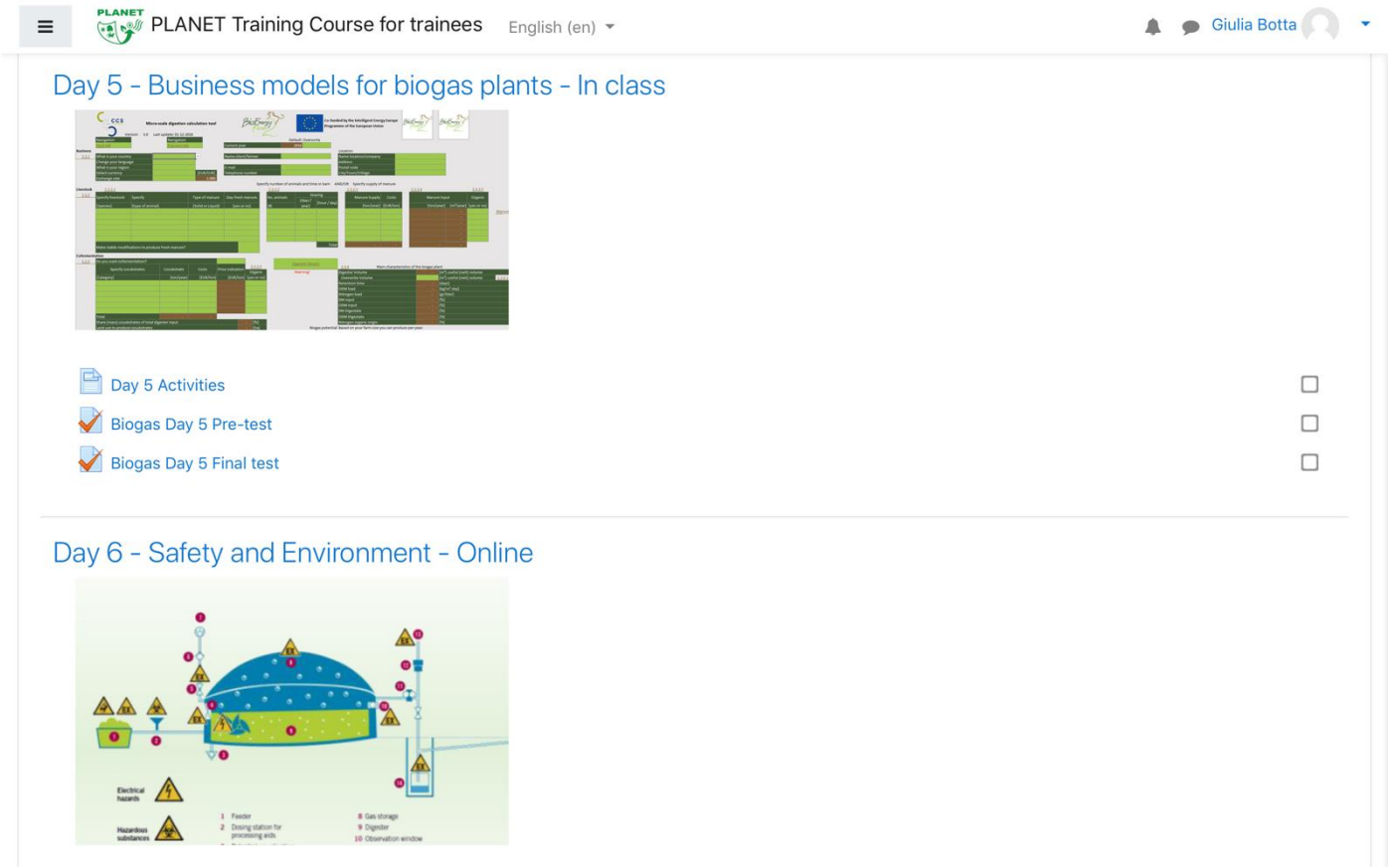


Figura 162

PLANET – PLan for Agriculture reNewable Energy Training

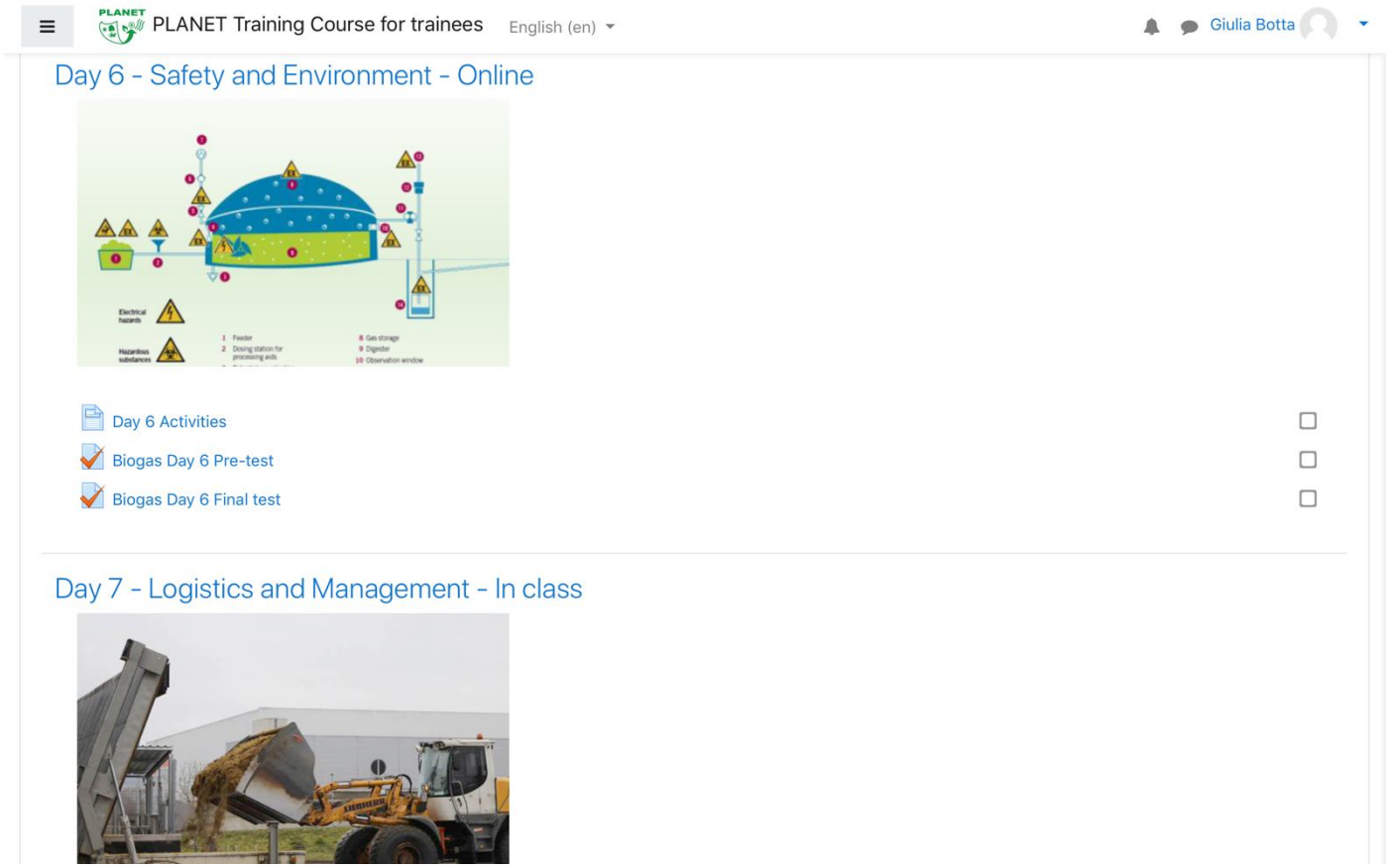


Figura 163

PLANET – PLan for Agriculture reNewable Energy Training

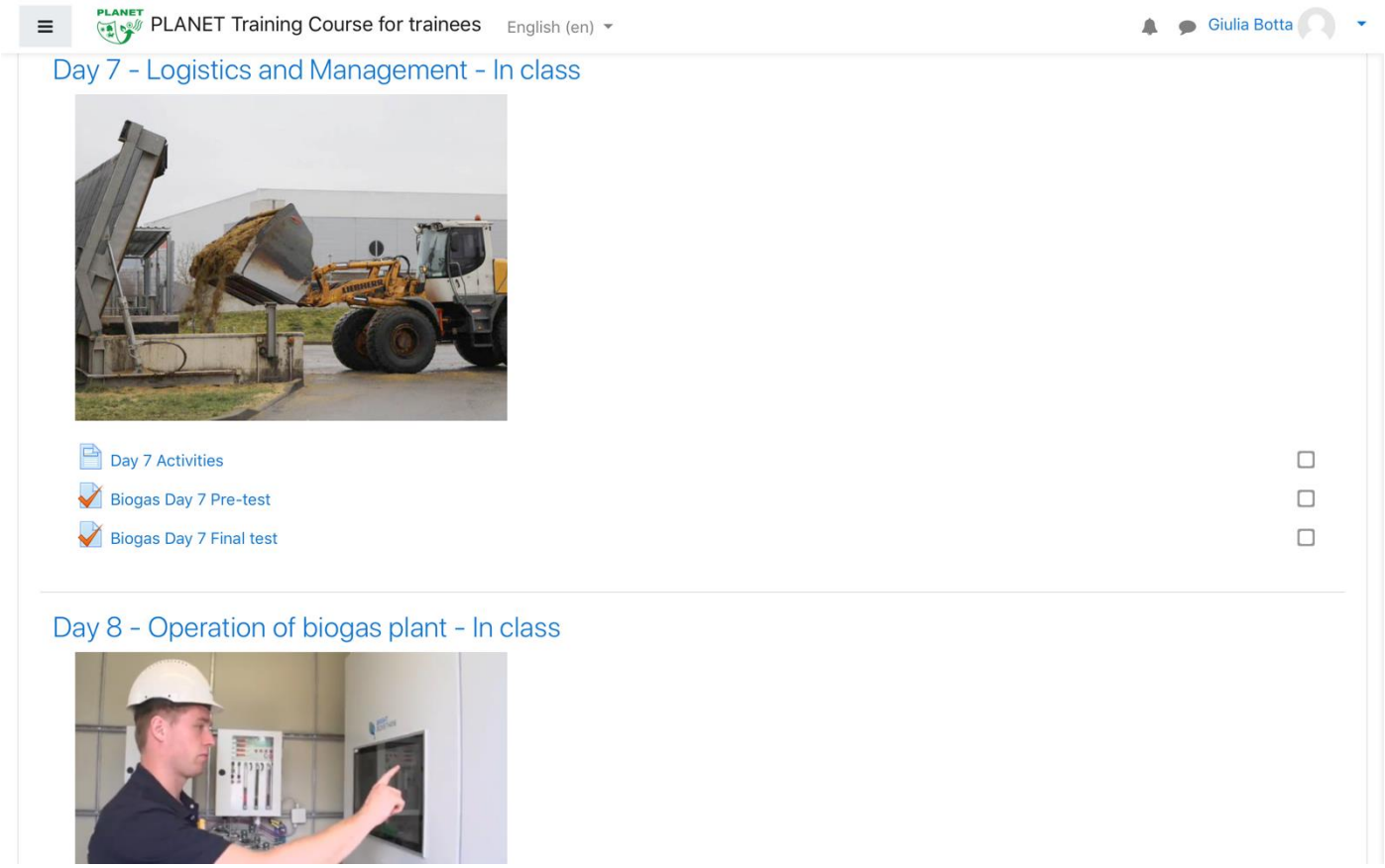


Figura 164

PLANET – PLan for Agriculture reNewable Energy Training

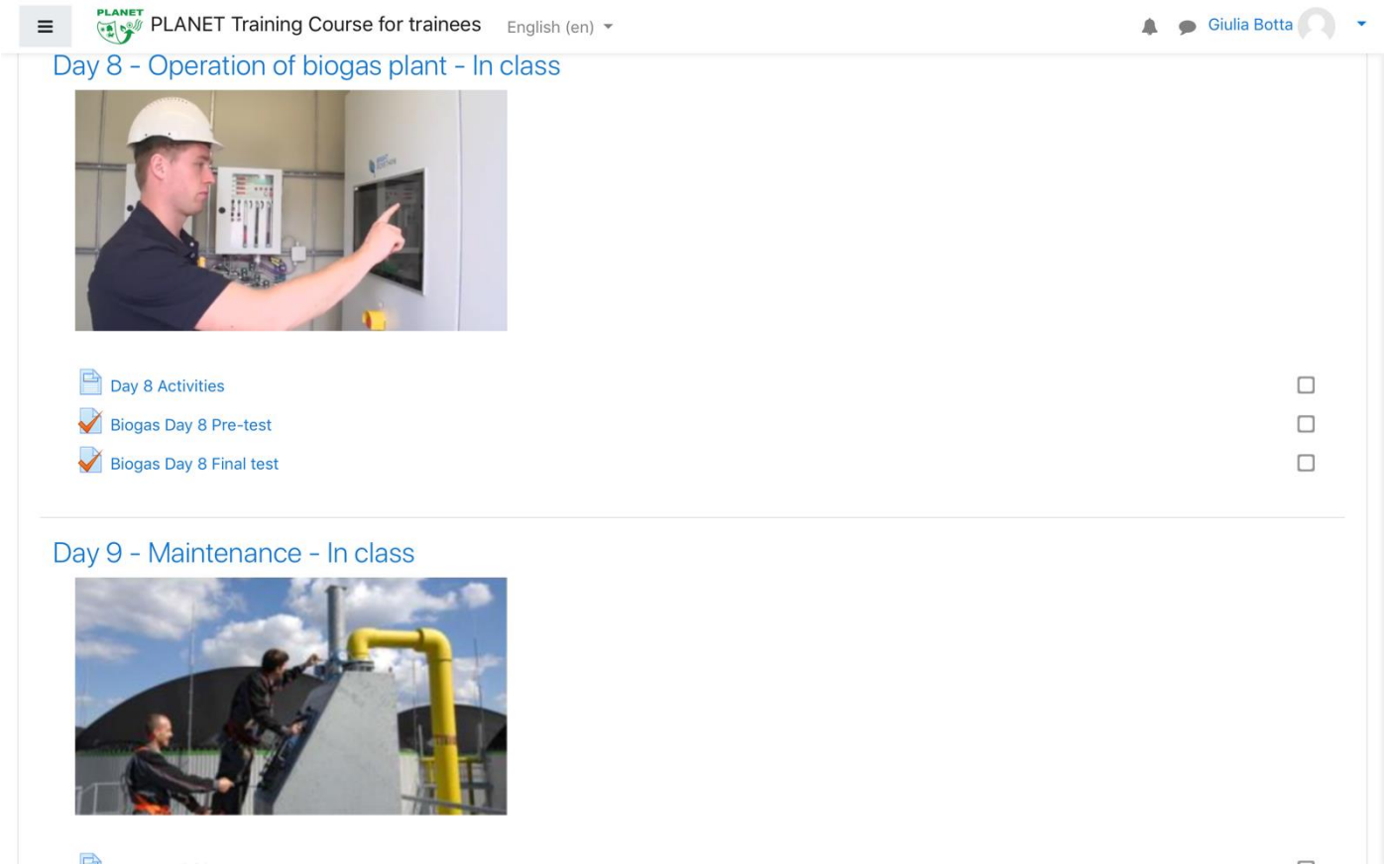


Figura 165

PLANET – PLan for Agriculture reNewable Energy Training

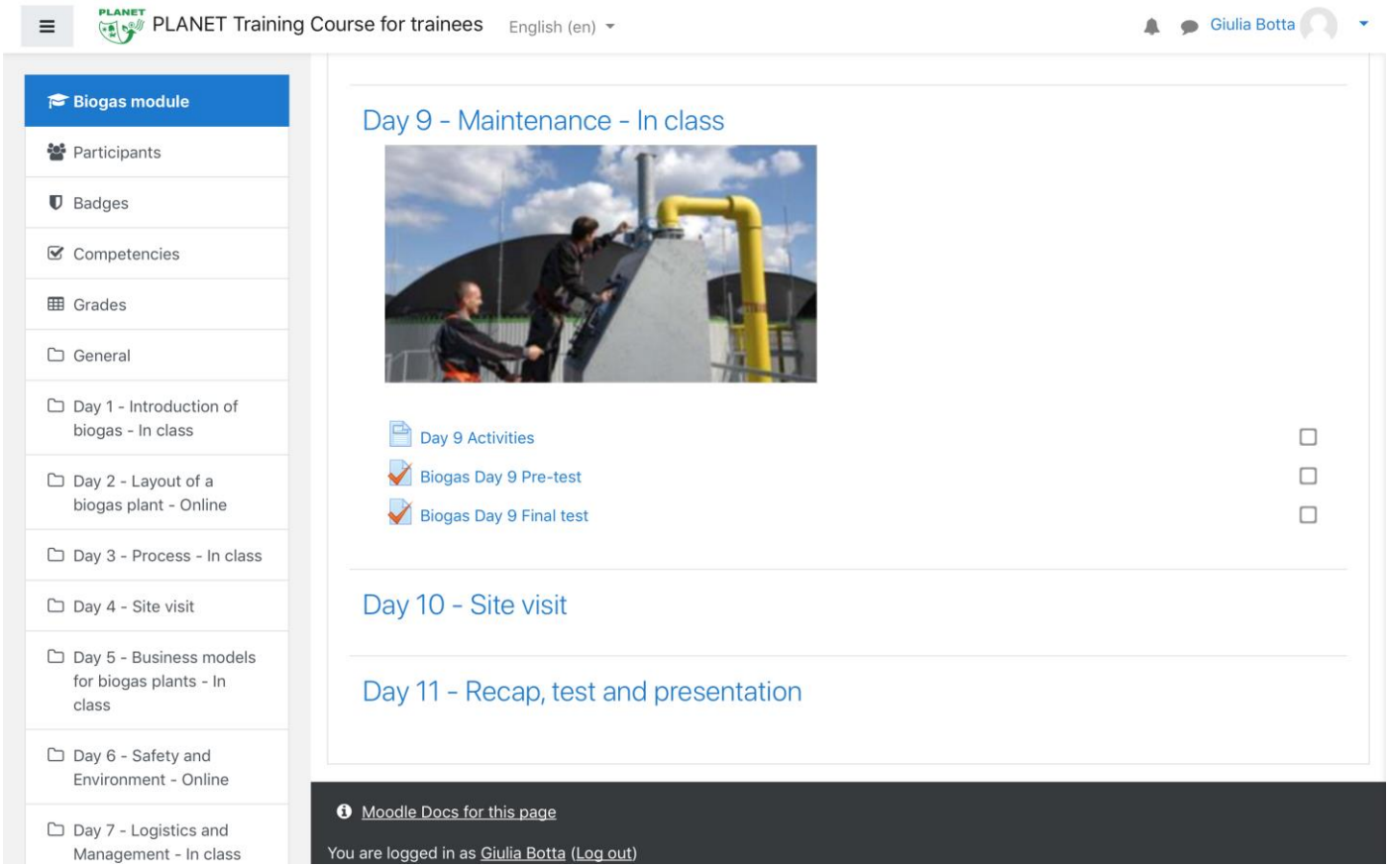


Figura 166

PLANET – PLan for Agriculture reNewable Energy Training

ACTIVITIES:

ONE:

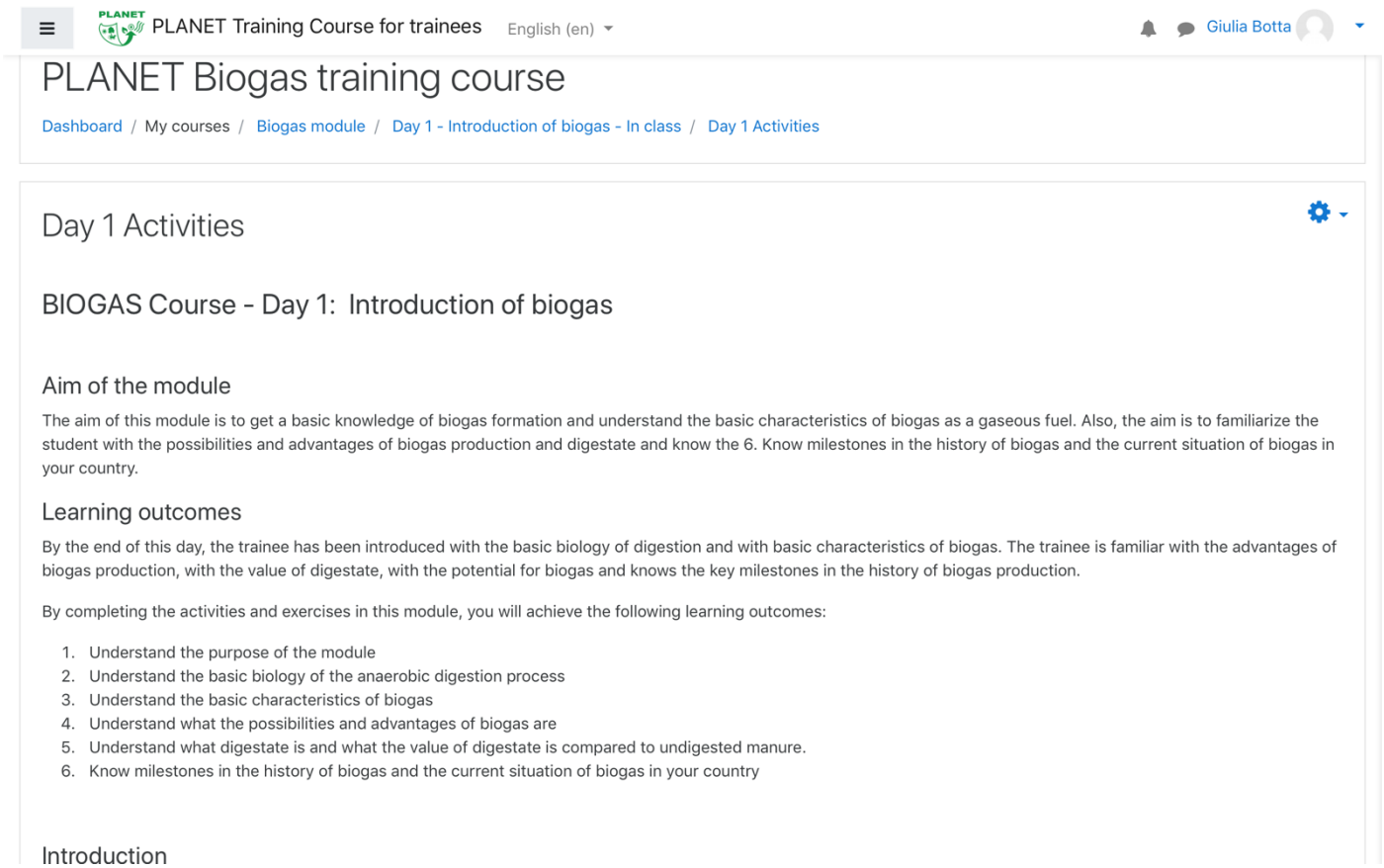


Figura 167

PLANET – PLan for Agriculture reNewable Energy Training

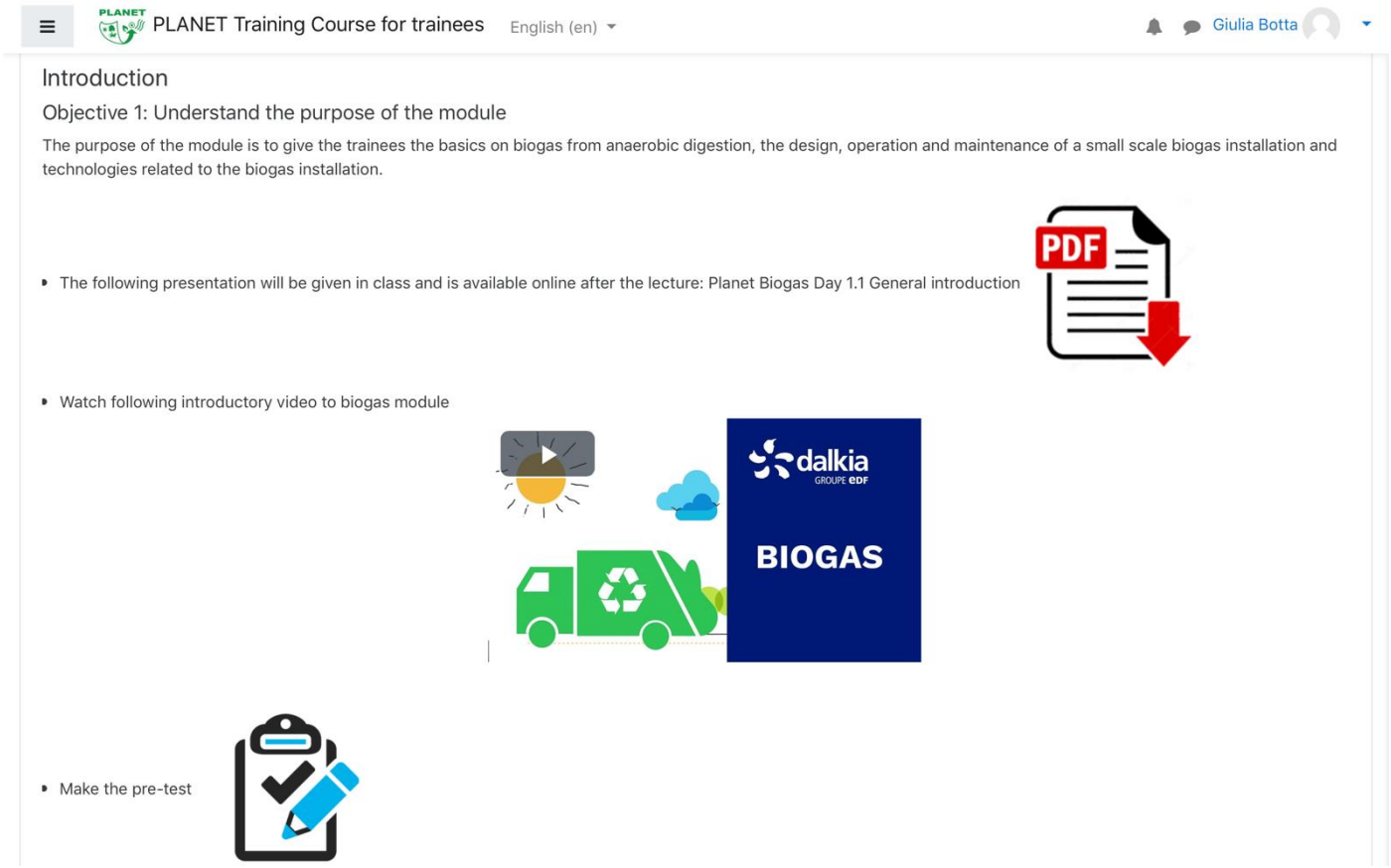


Figura 168

PLANET – PLan for Agriculture reNewable Energy Training

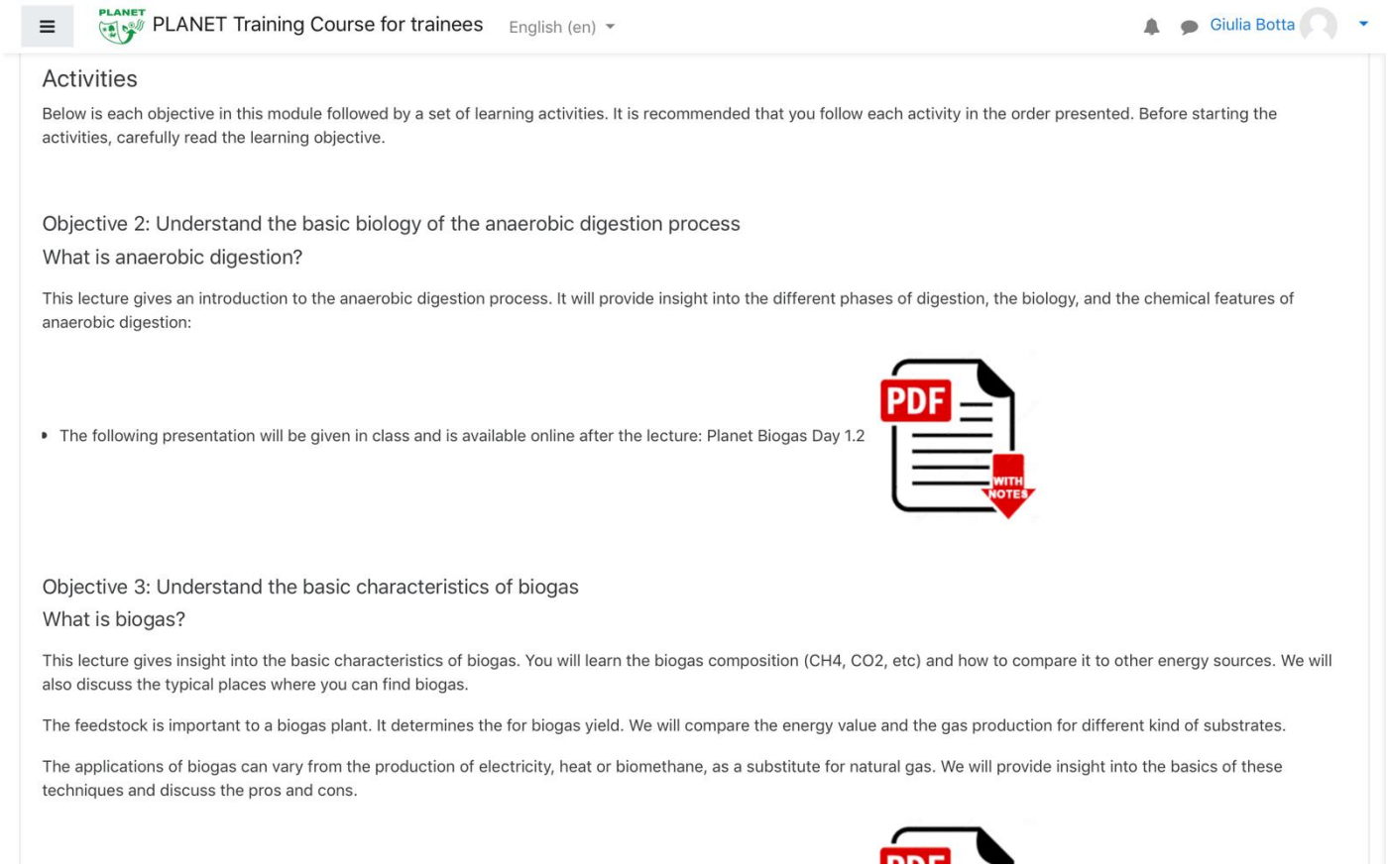


Figura 169

PLANET – PLan for Agriculture reNewable Energy Training

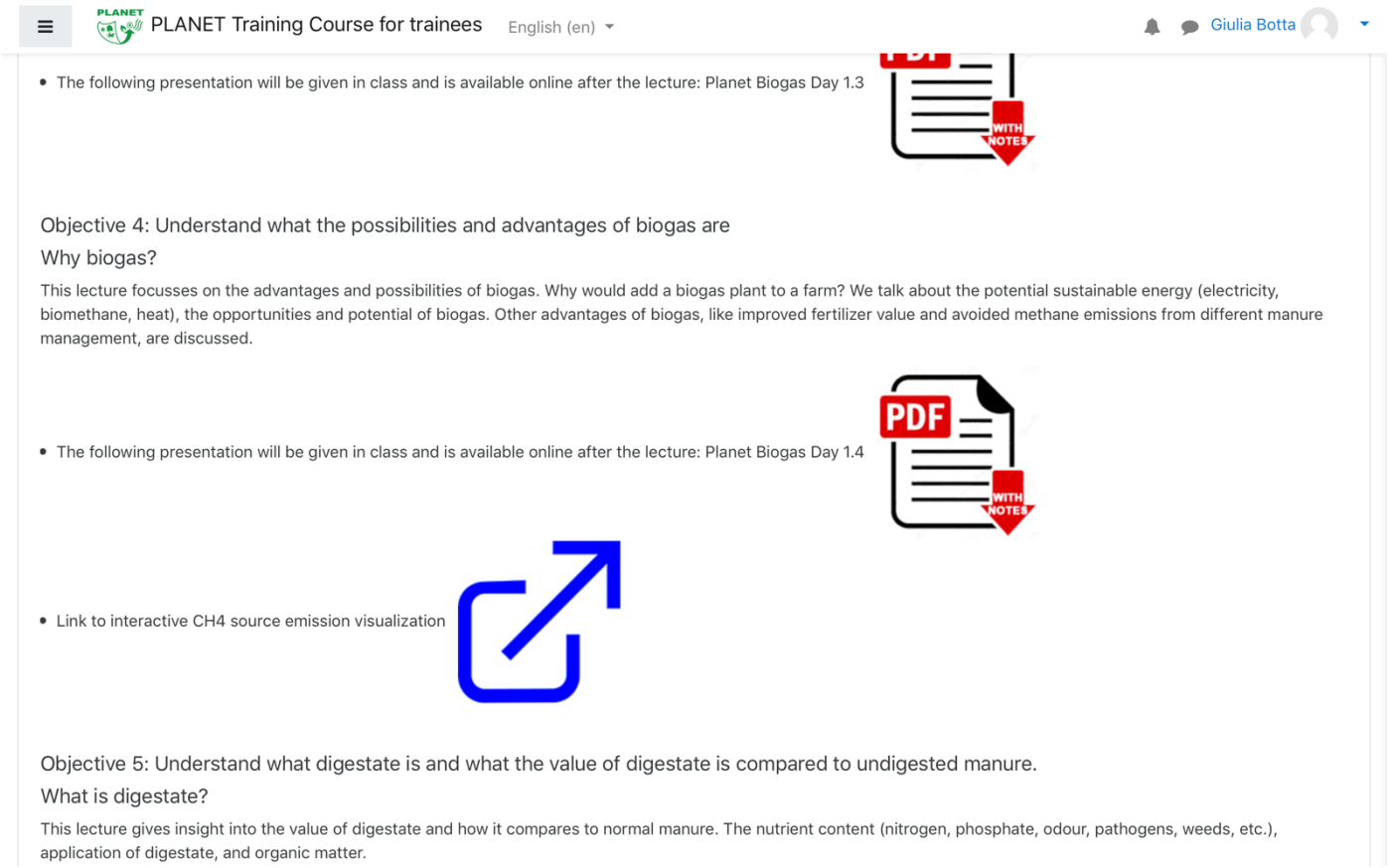


Figura 170

PLANET – PLan for Agriculture reNewable Energy Training

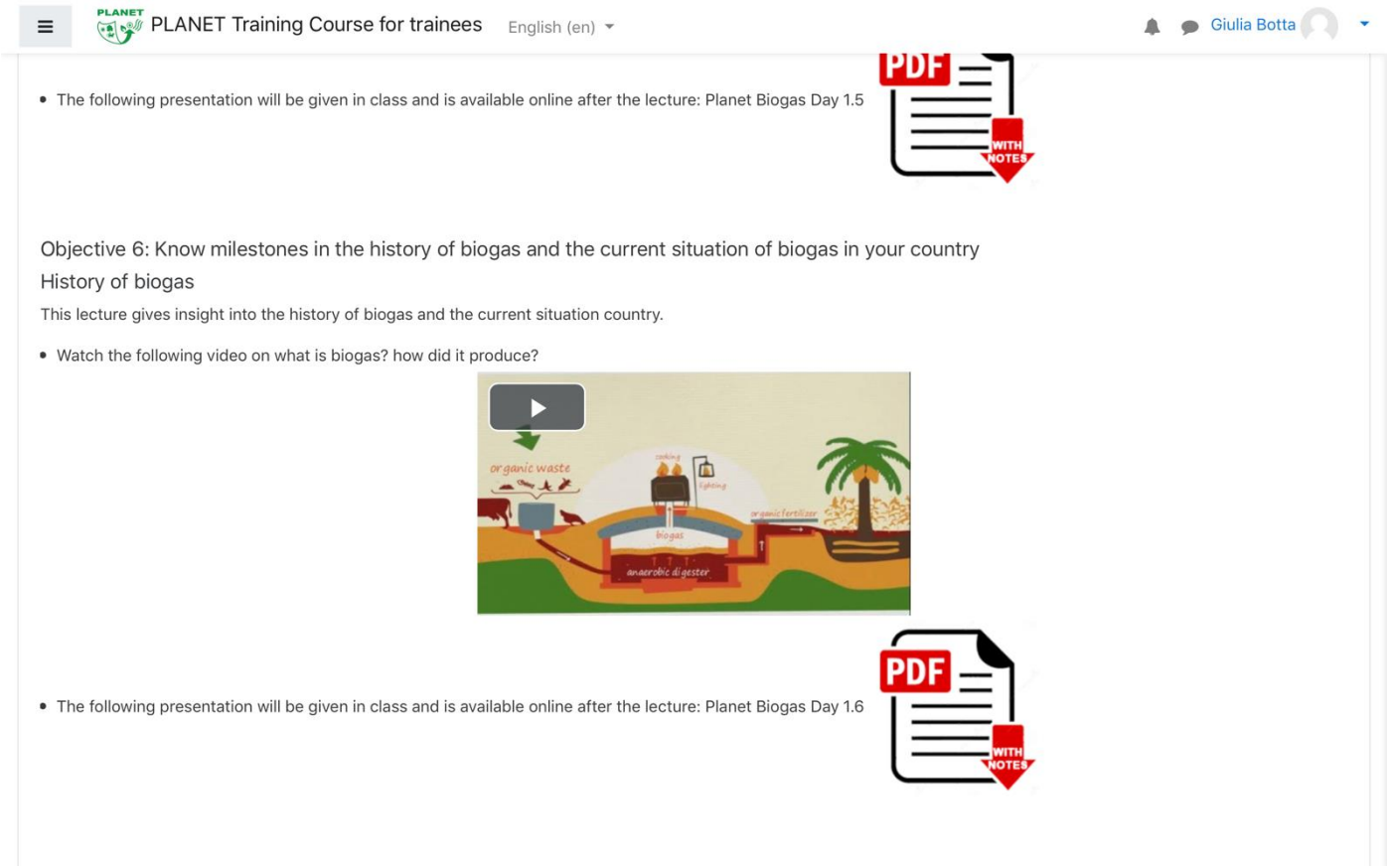


Figura 171

PLANET – PLan for Agriculture reNewable Energy Training

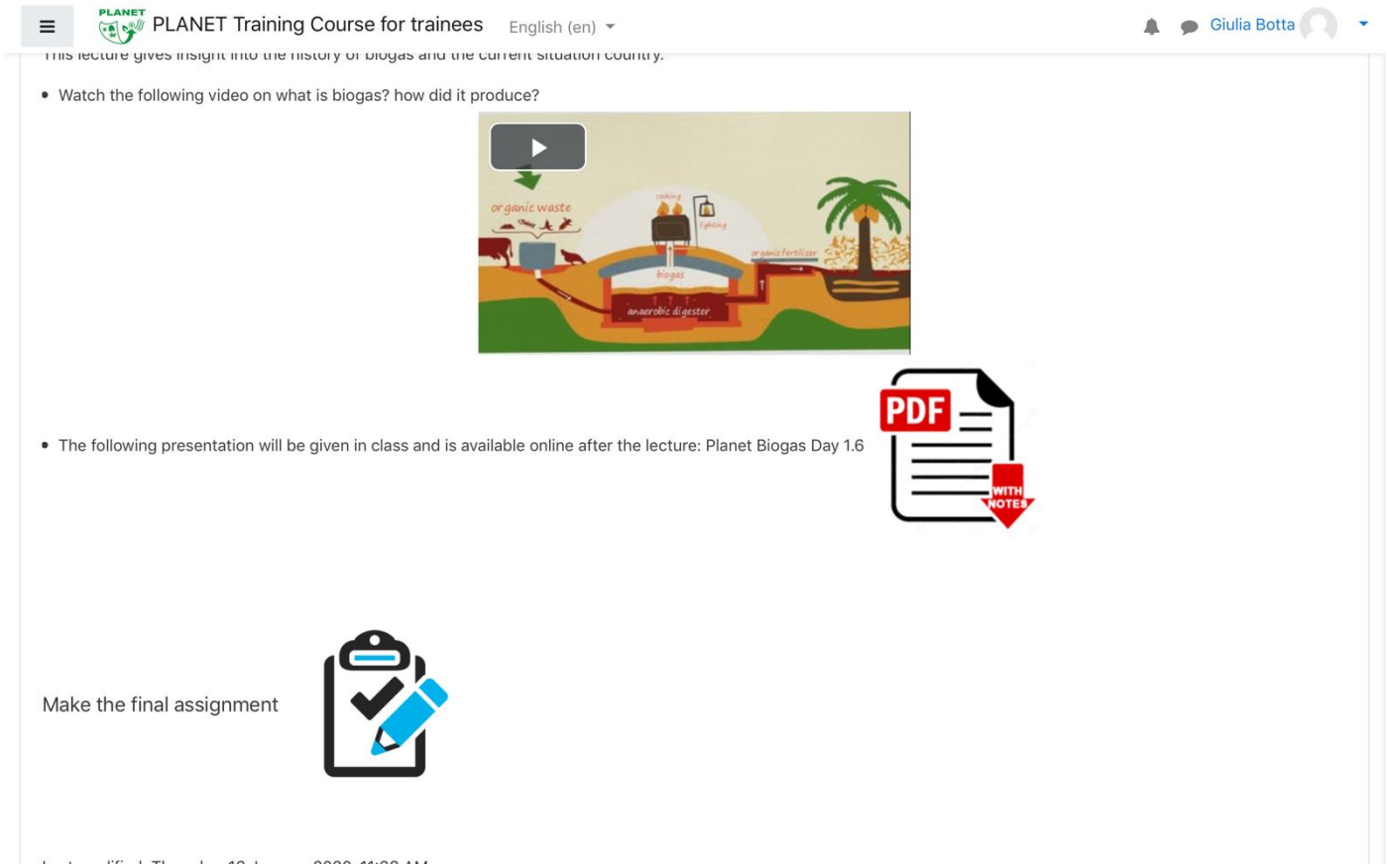


Figura 172

Two:

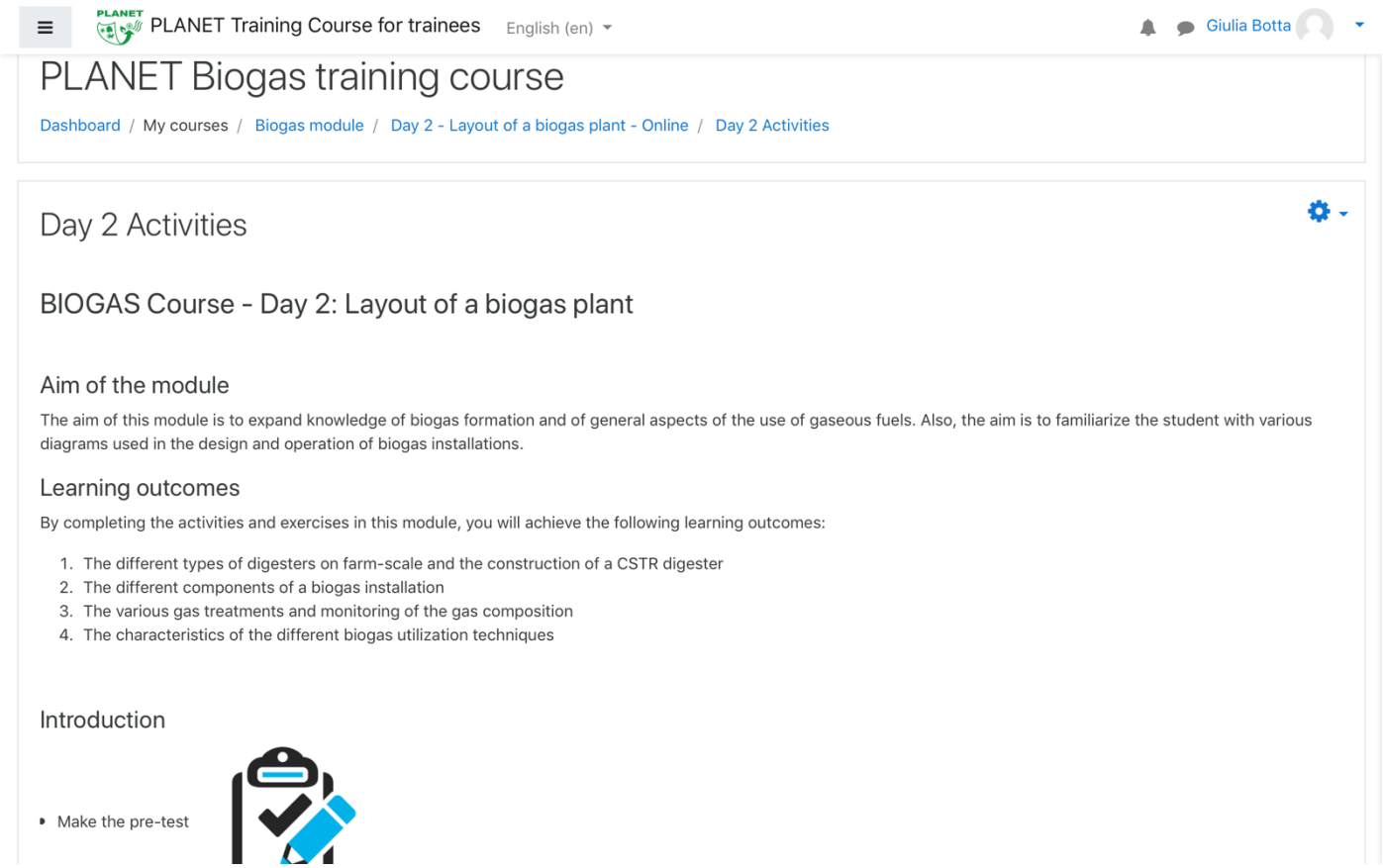
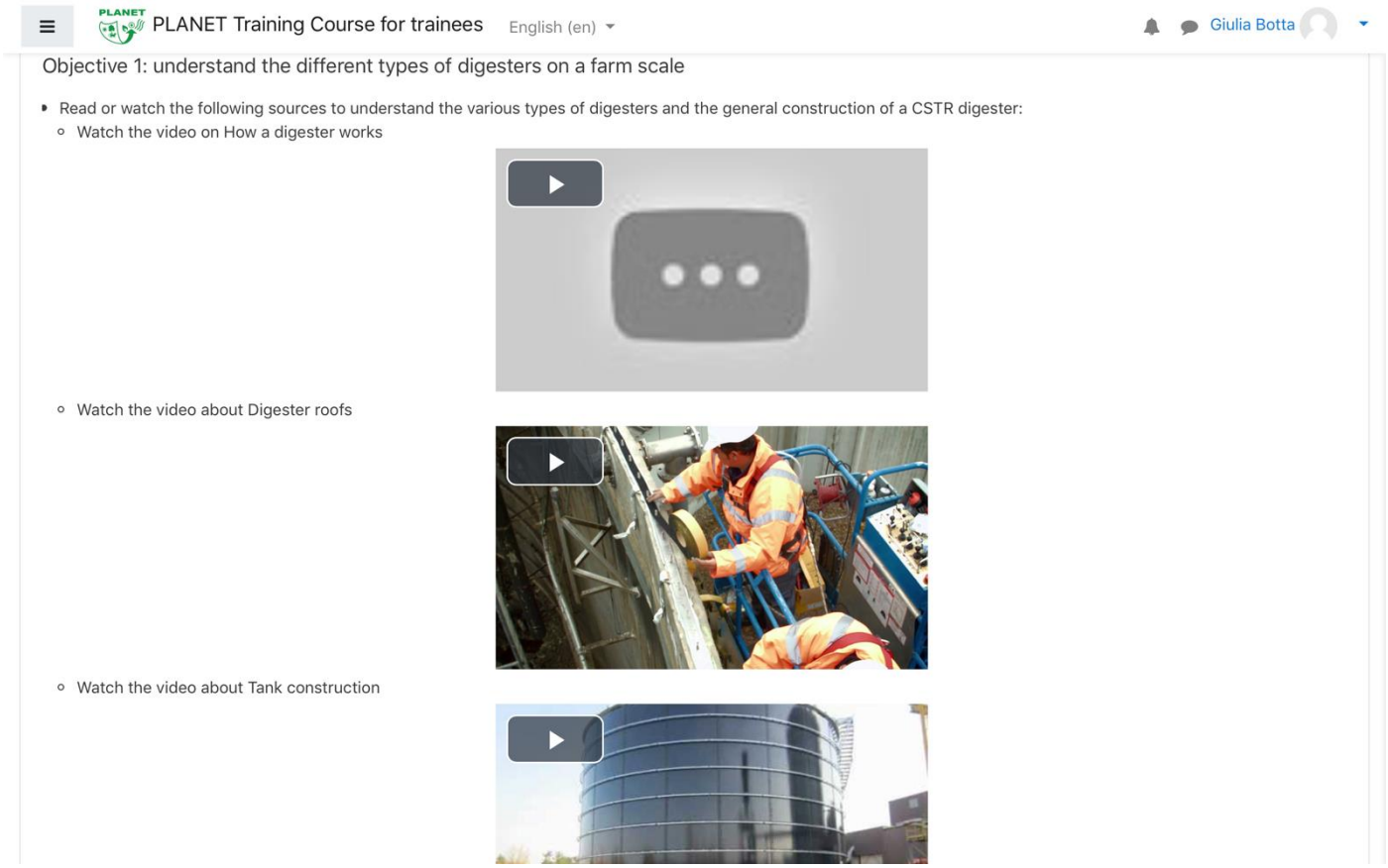


Figura 173

PLANET – PLan for Agriculture reNewable Energy Training



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PLANET – PLan for Agriculture reNewable Energy Training

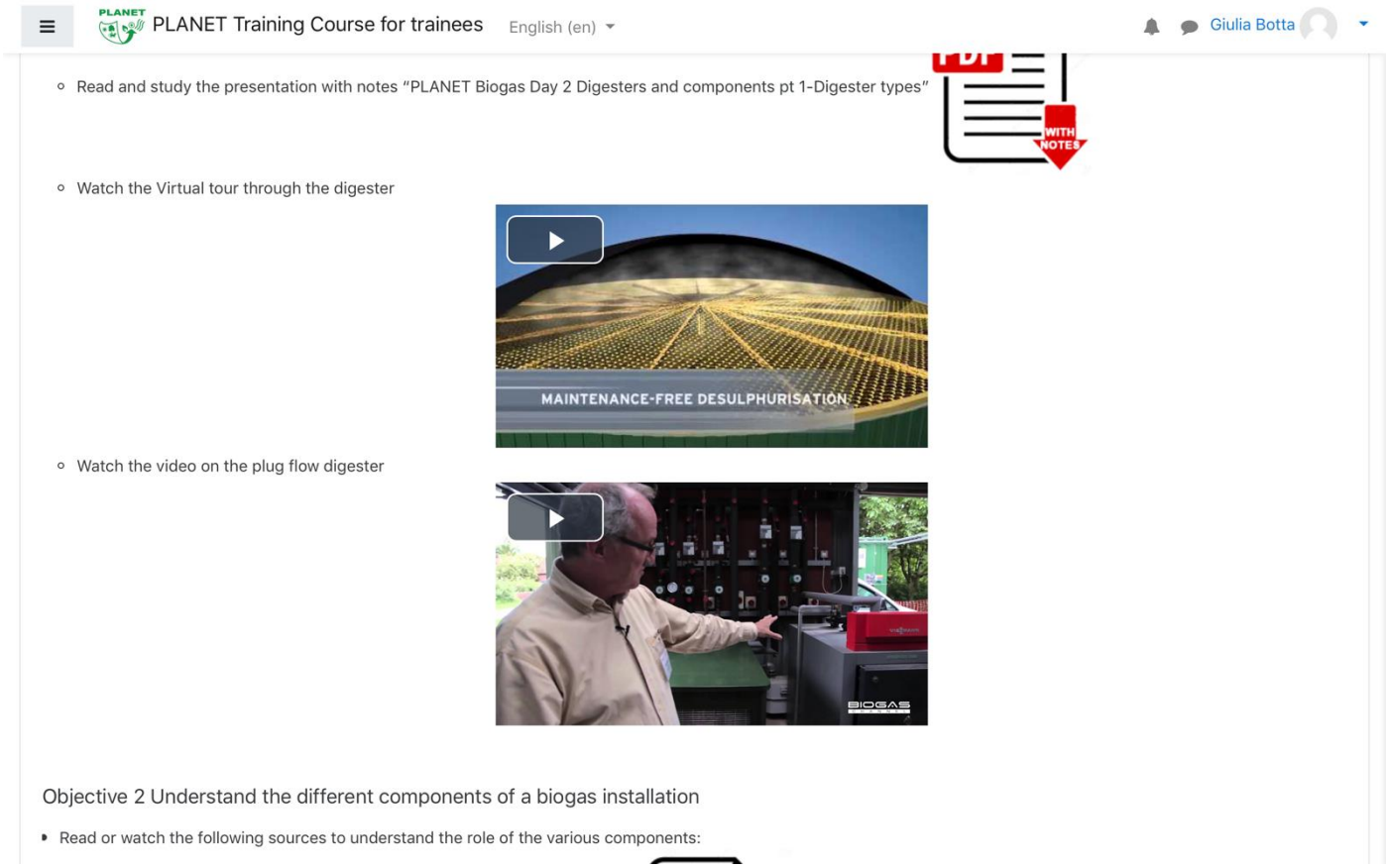
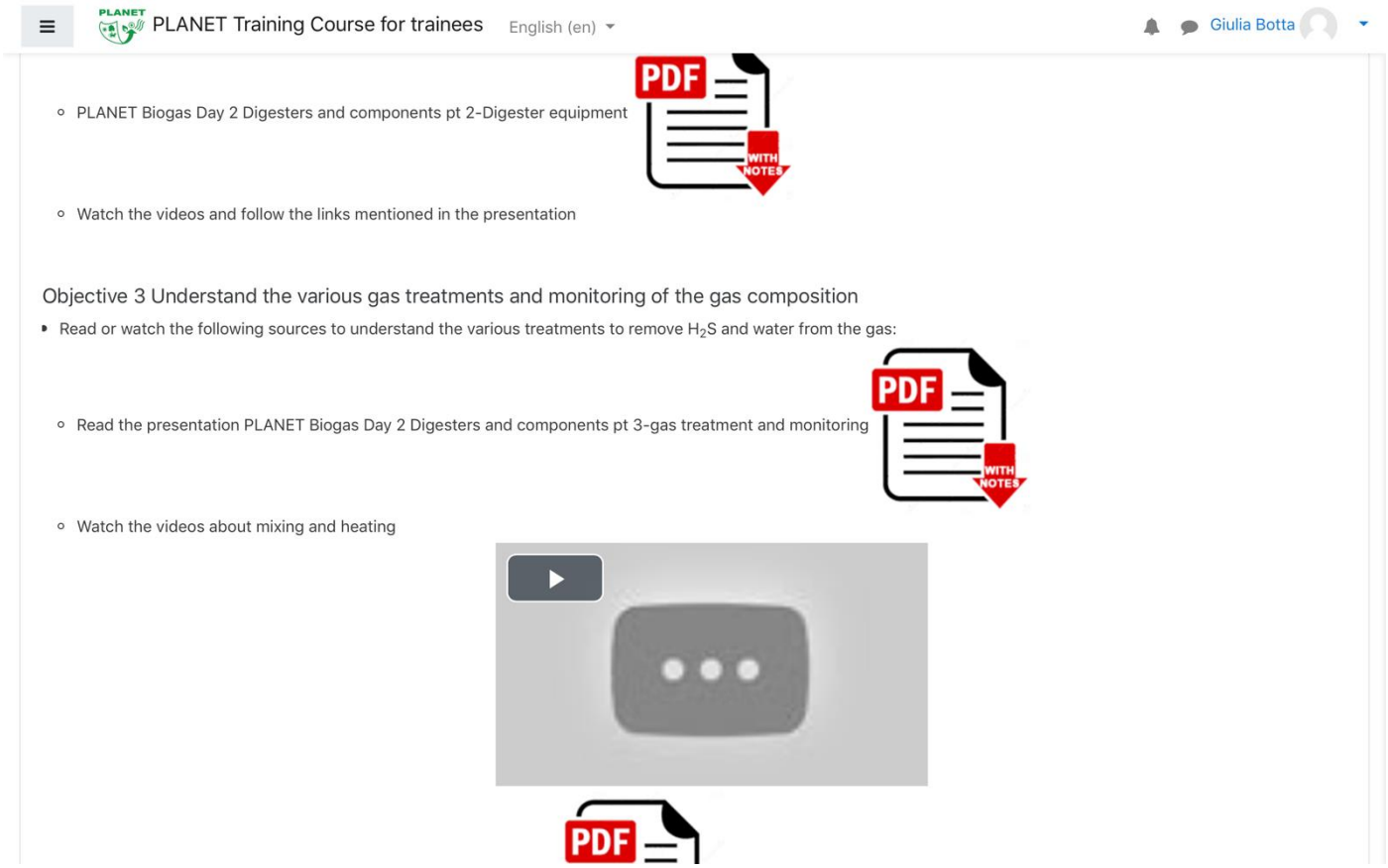


Figura 175

PLANET – PLan for Agriculture reNewable Energy Training



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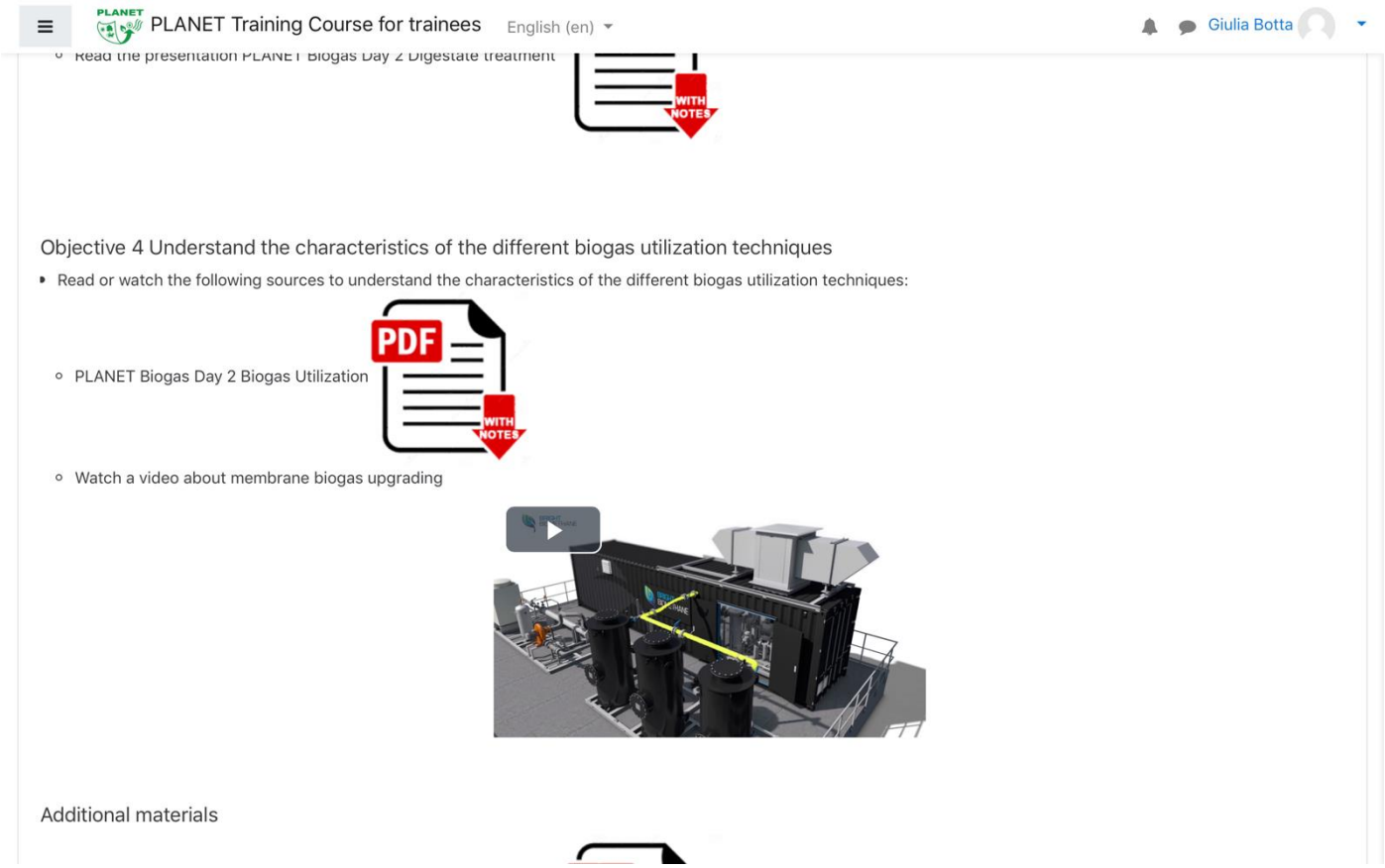
PLANET – PLan for Agriculture reNewable Energy Training



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PLANET – PLan for Agriculture reNewable Energy Training

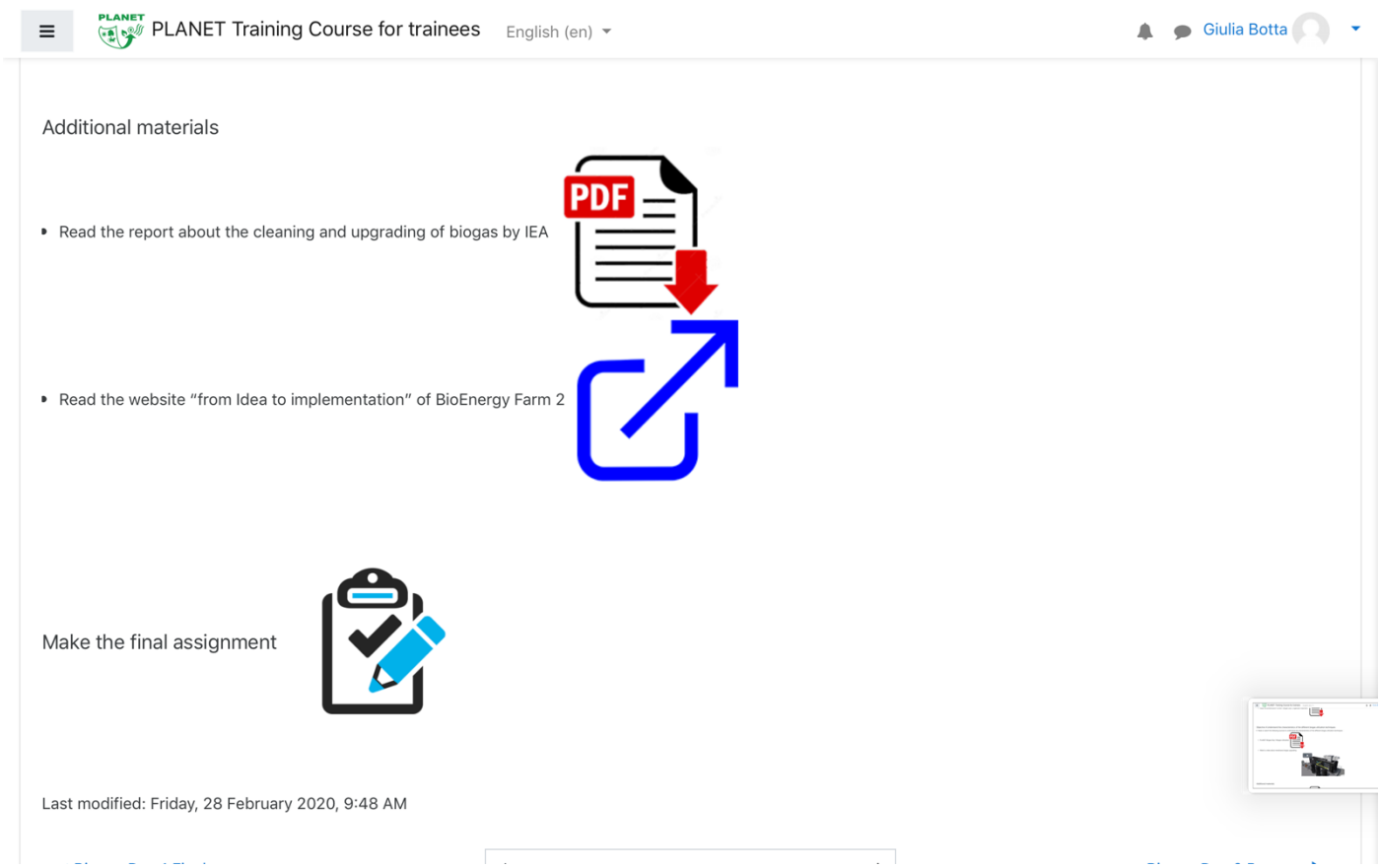
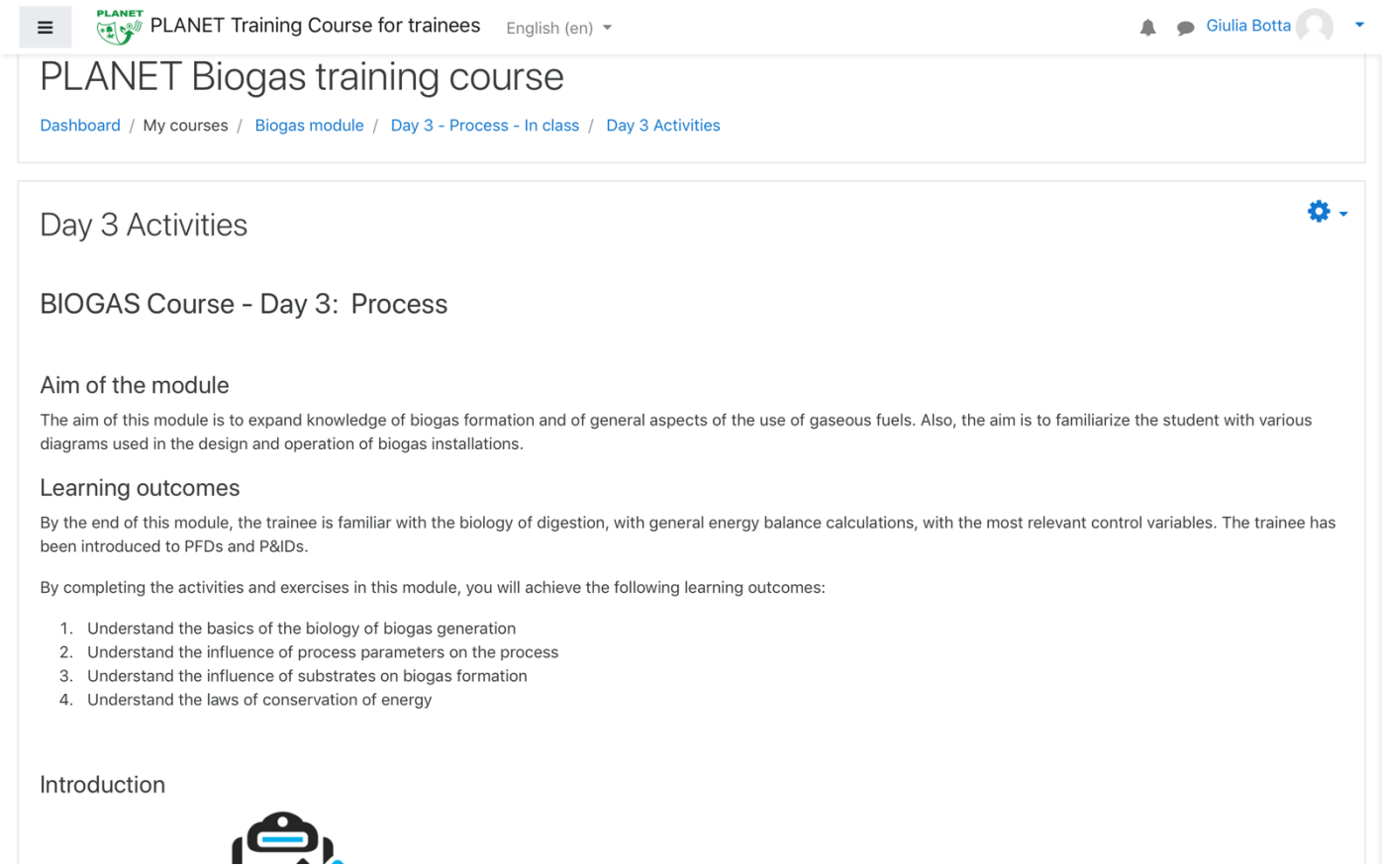


Figura 178

PLANET – PLan for Agriculture reNewable Energy Training

THREE:



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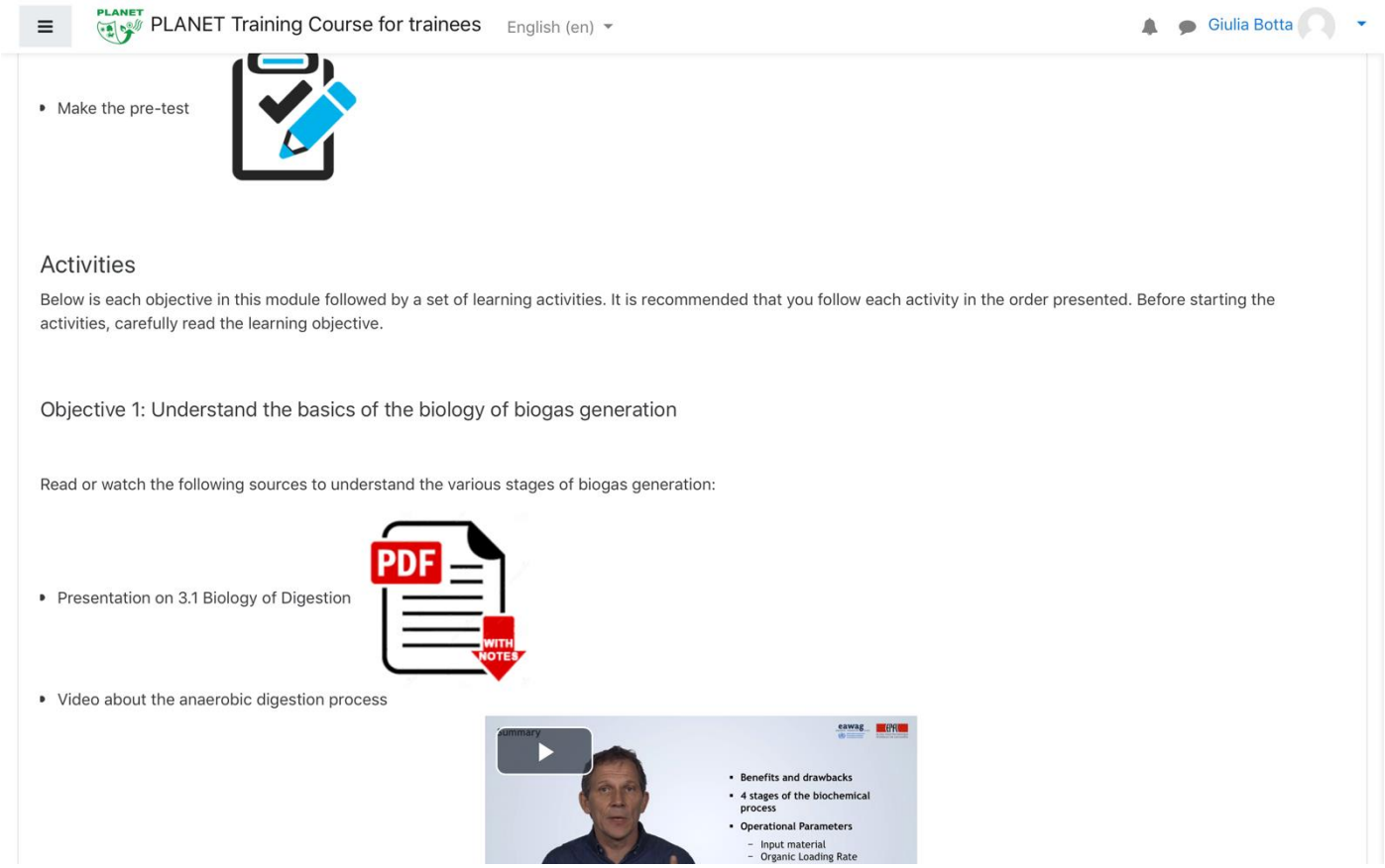
PLANET – PLan for Agriculture reNewable Energy Training



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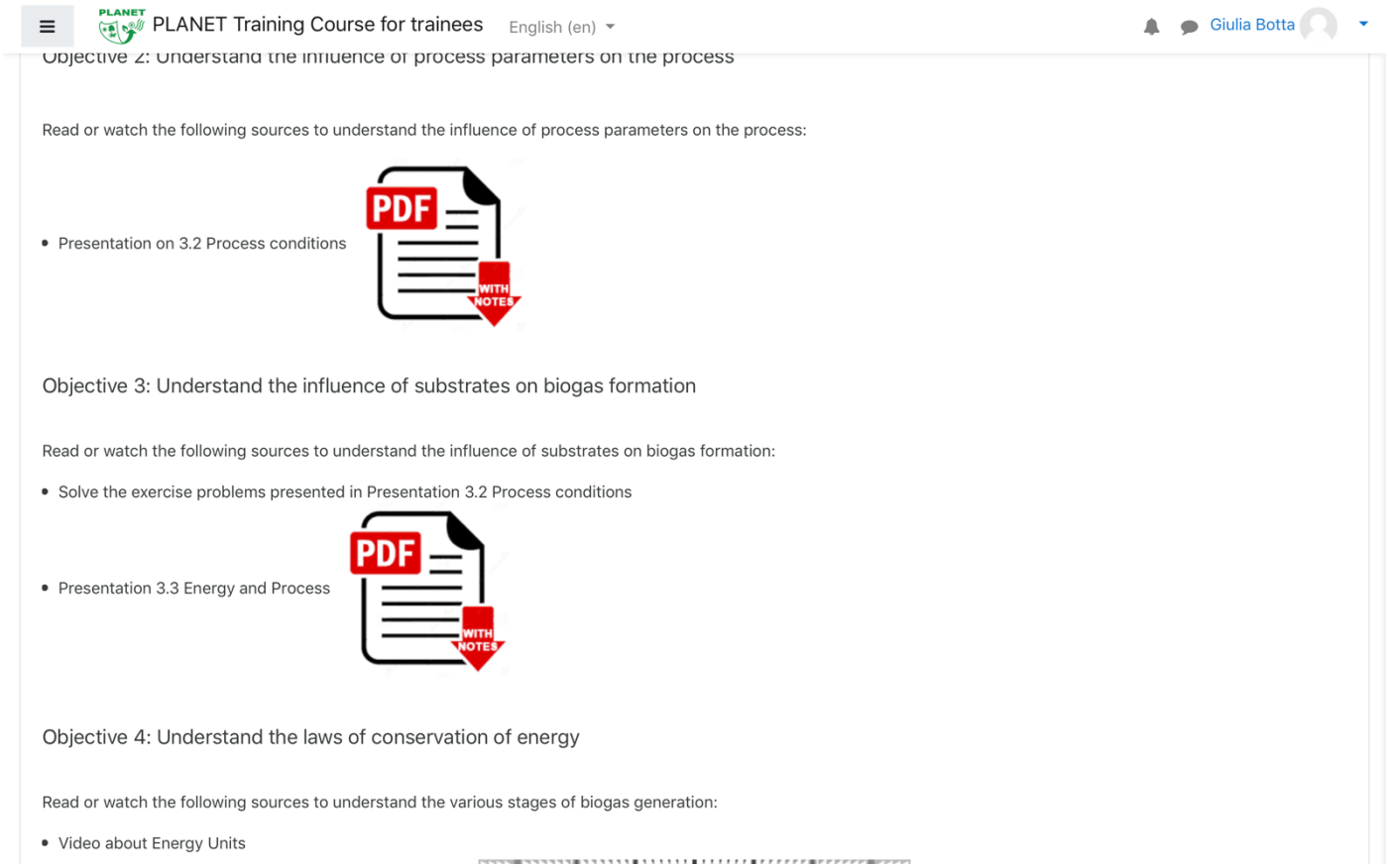

Figura 181

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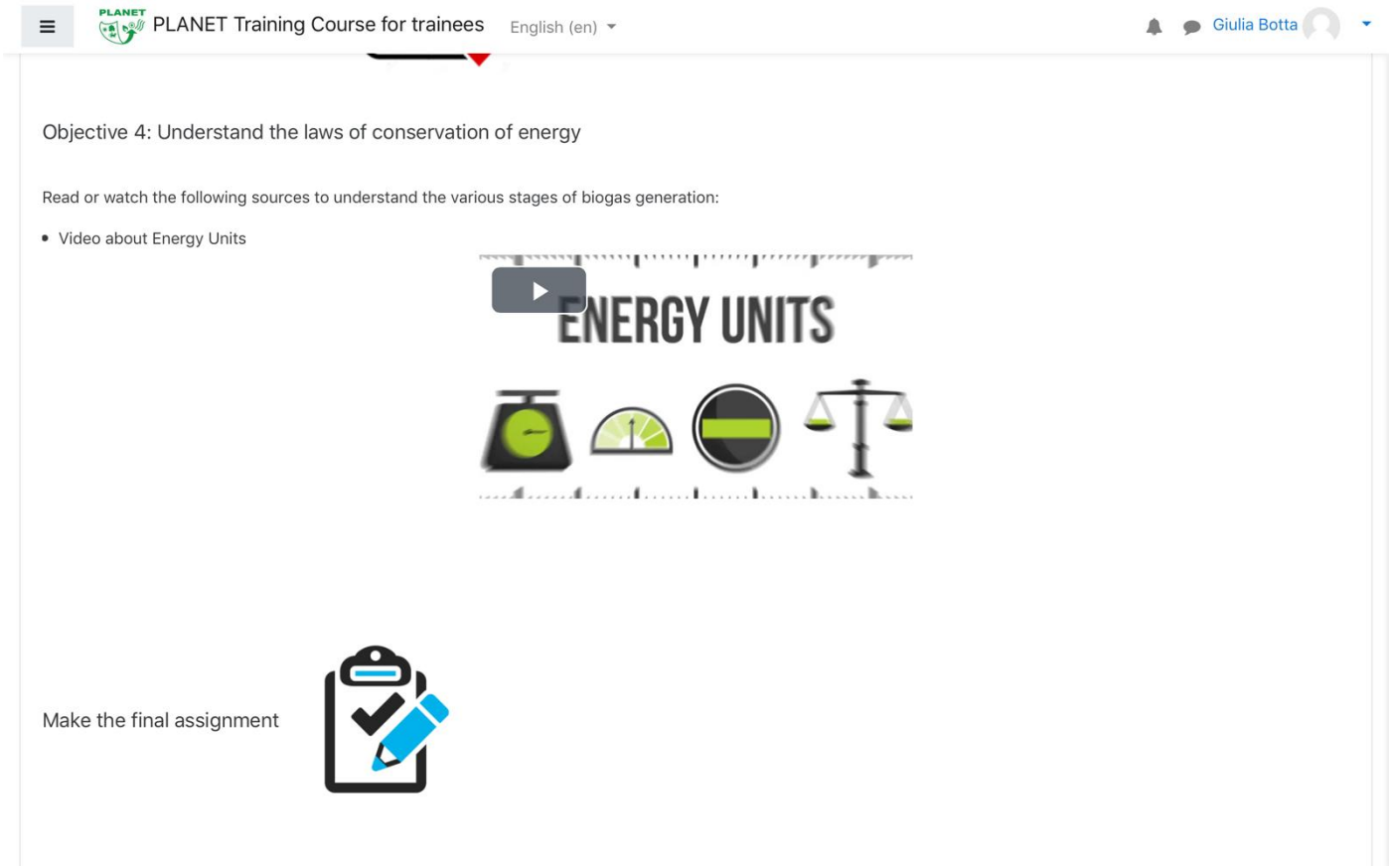


Figura 182

PLANET – PLan for Agriculture reNewable Energy Training

FOUR:

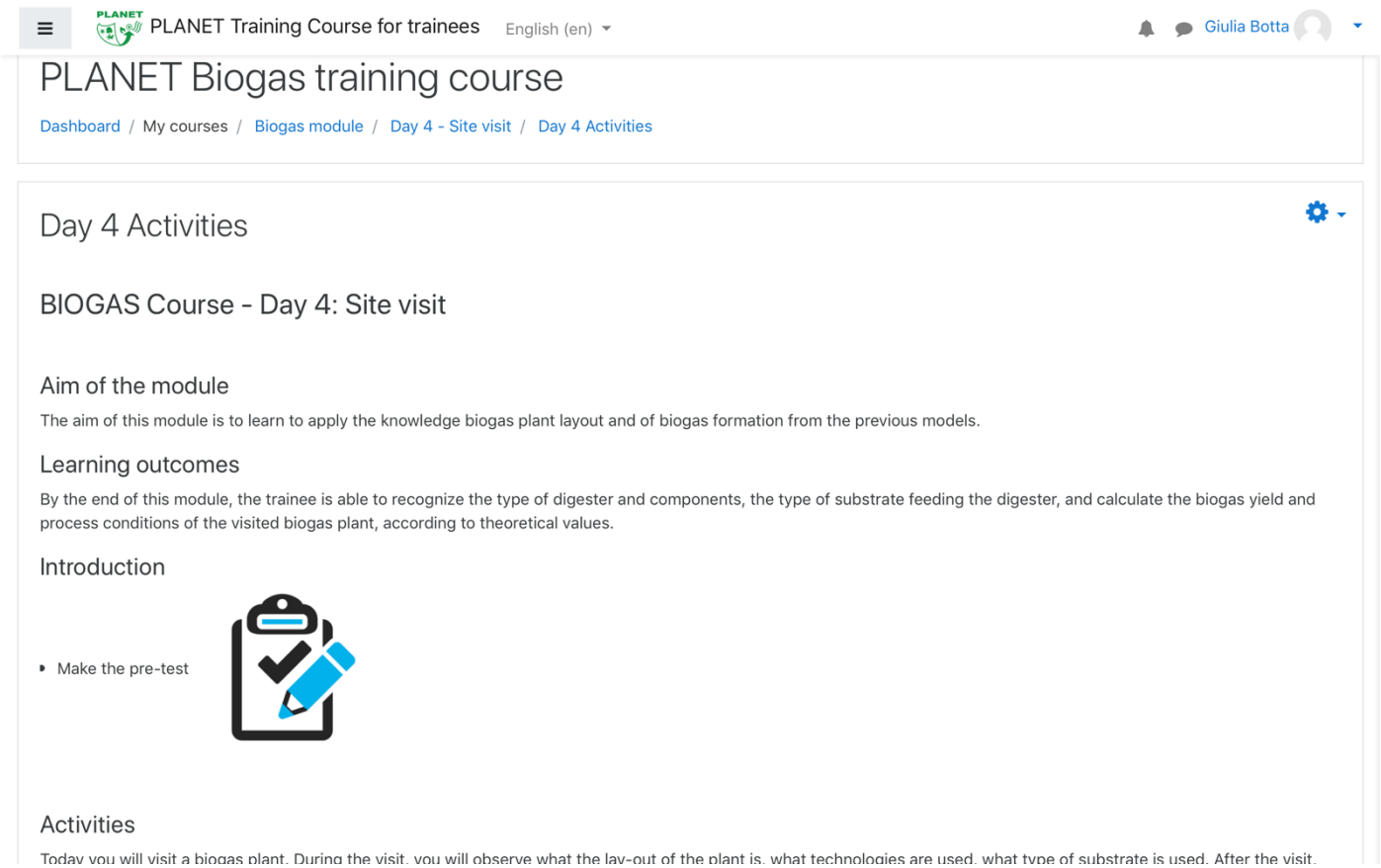


Figura 183

PLANET – PLan for Agriculture reNewable Energy Training

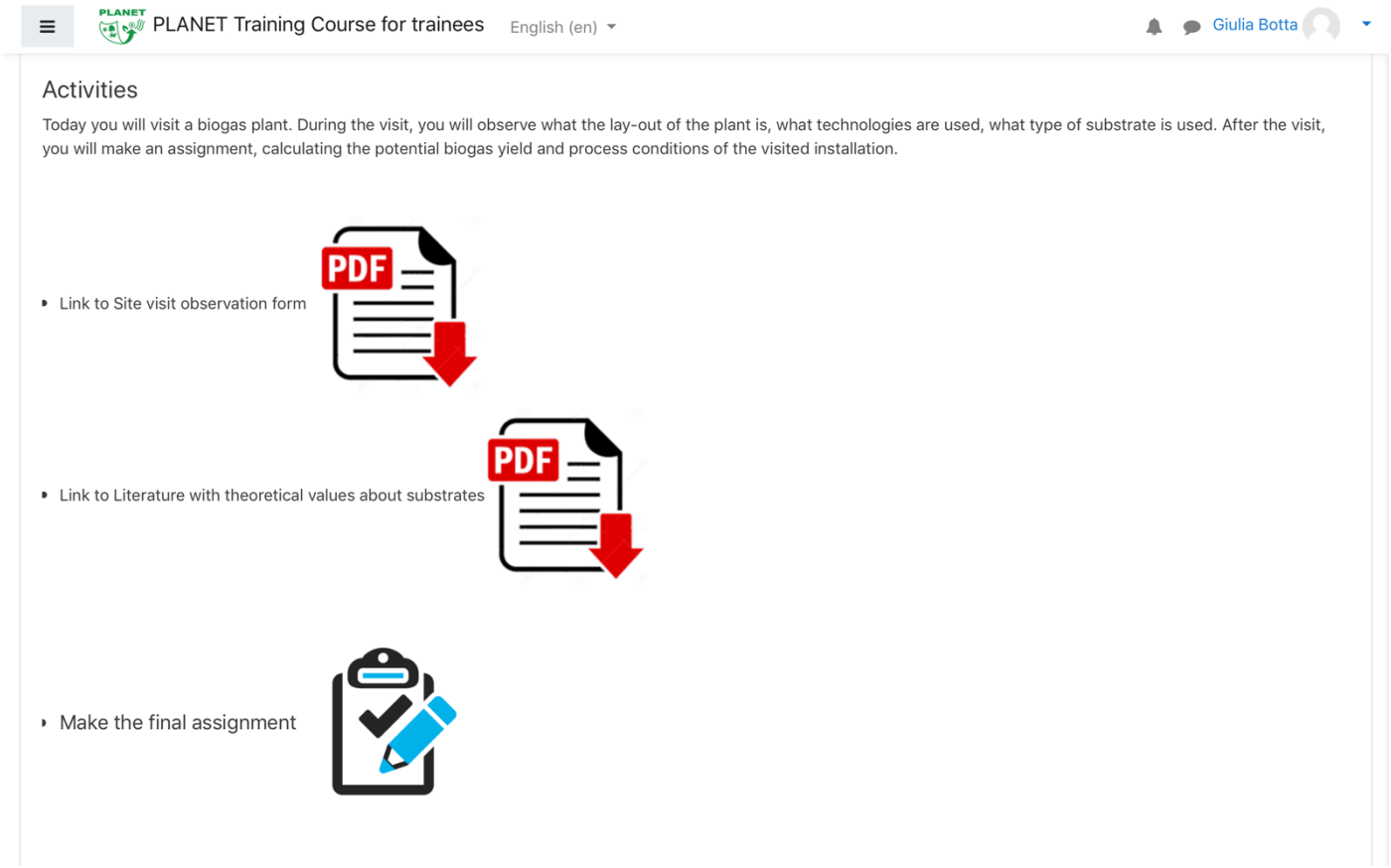
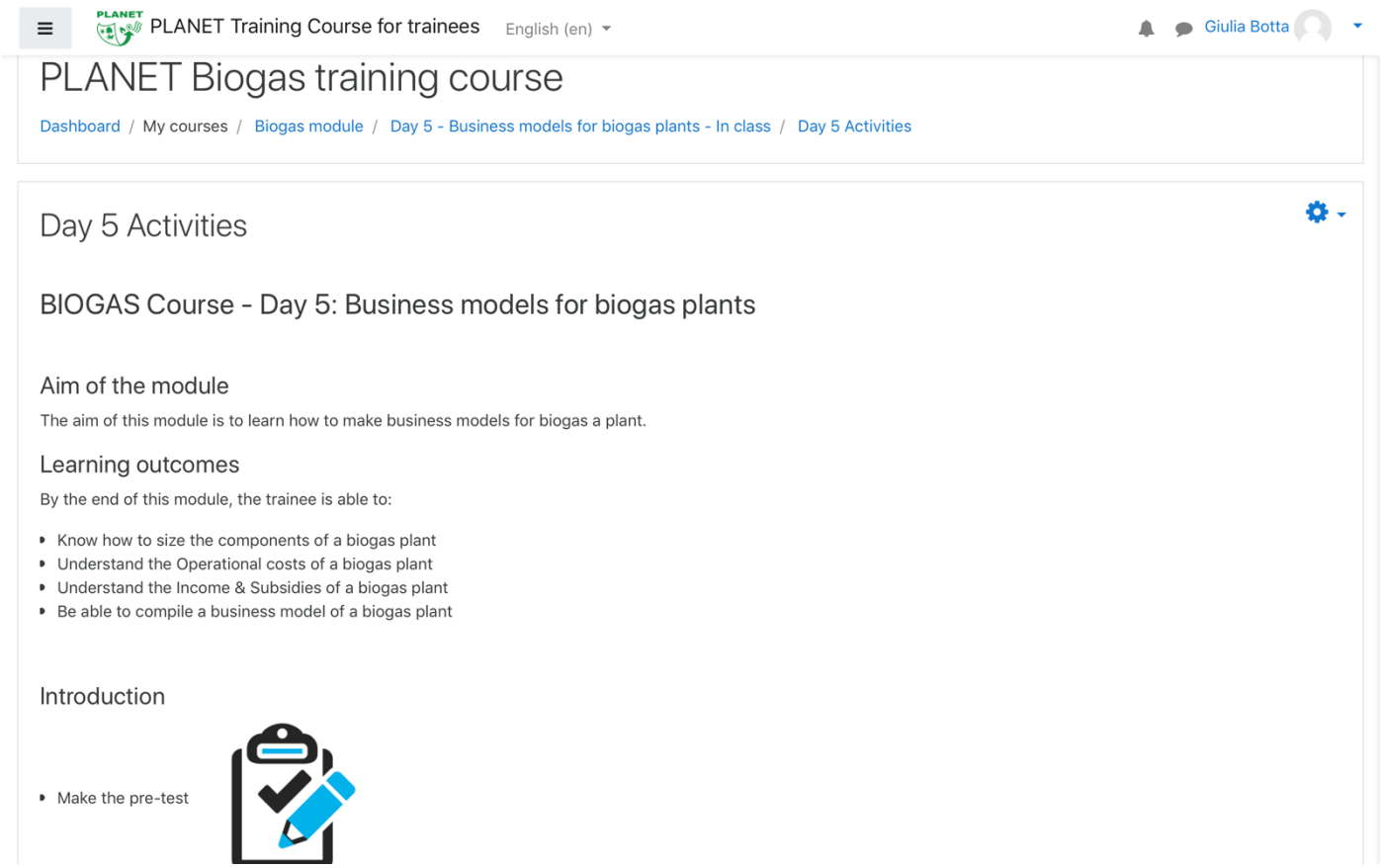


Figura 184

FIVE:



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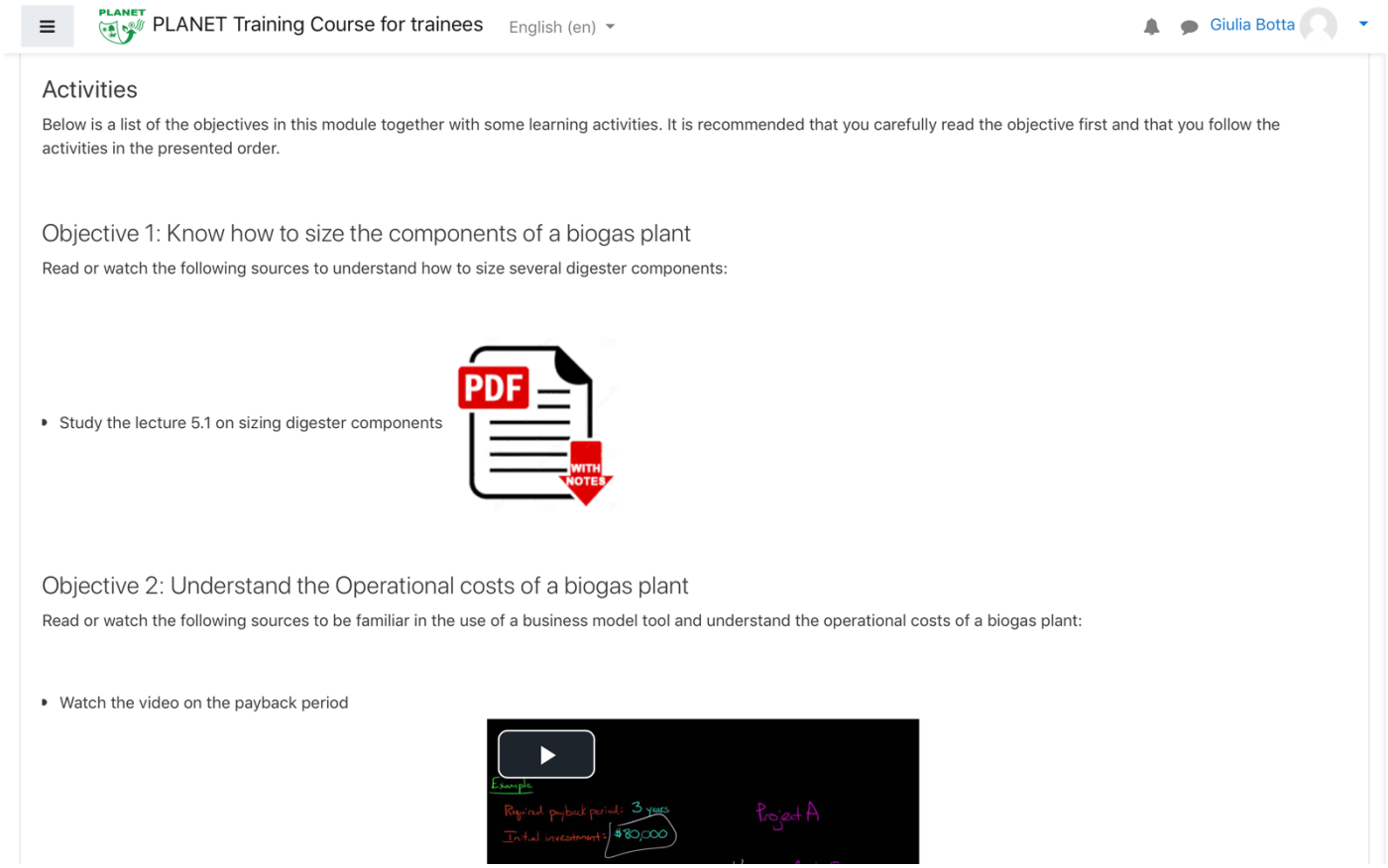
PLANET – PLan for Agriculture reNewable Energy Training



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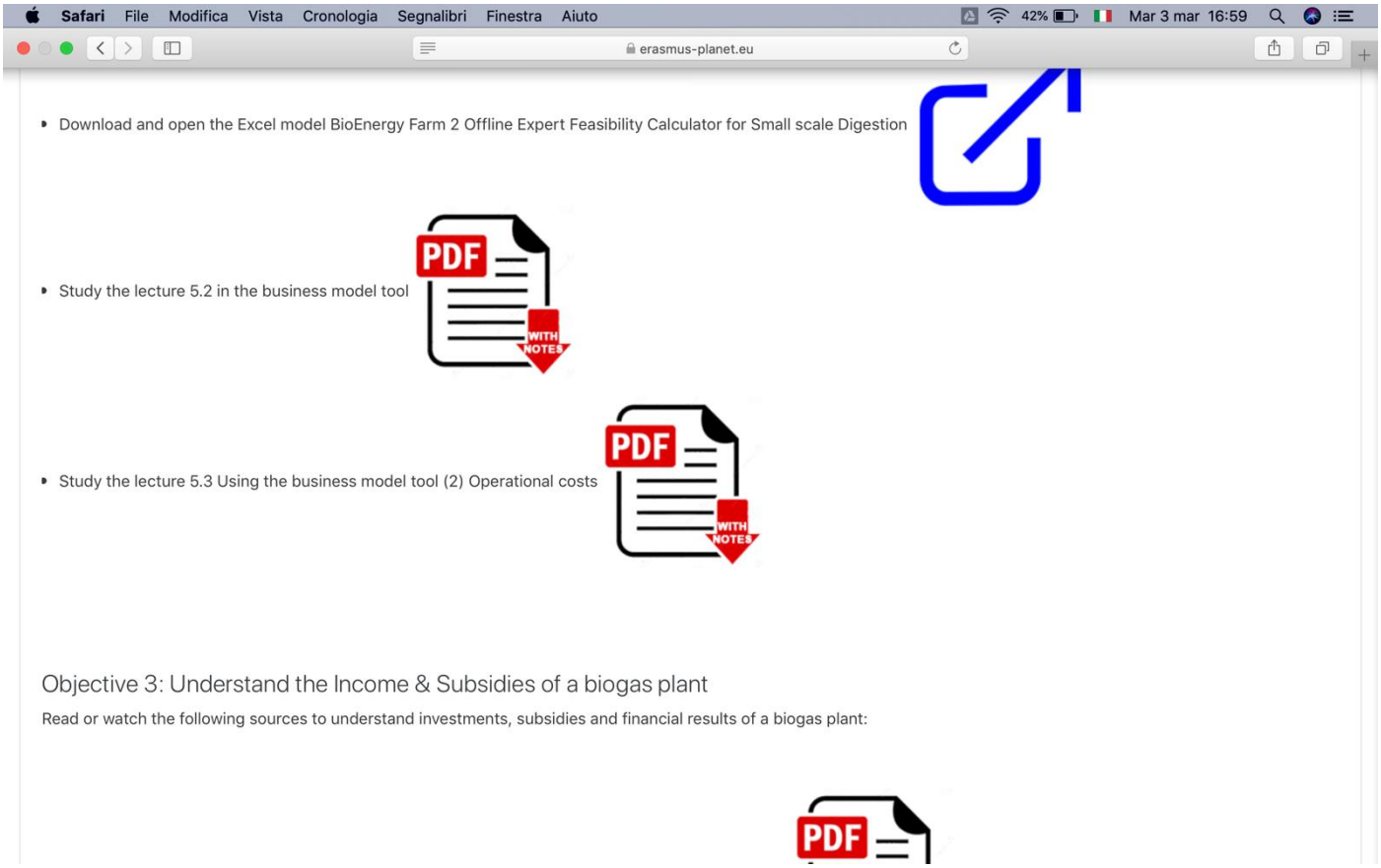

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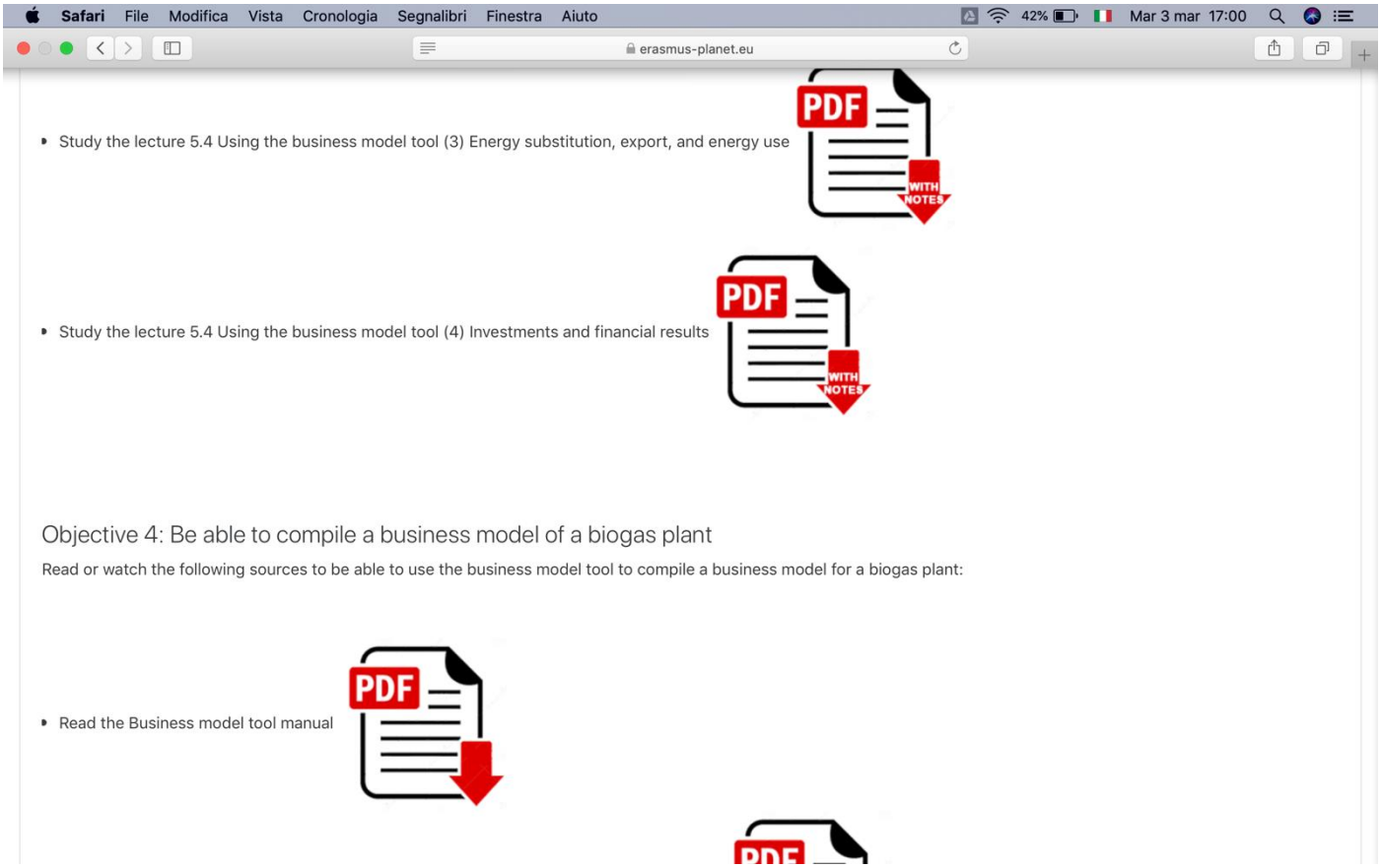

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PLANET – PLan for Agriculture reNewable Energy Training

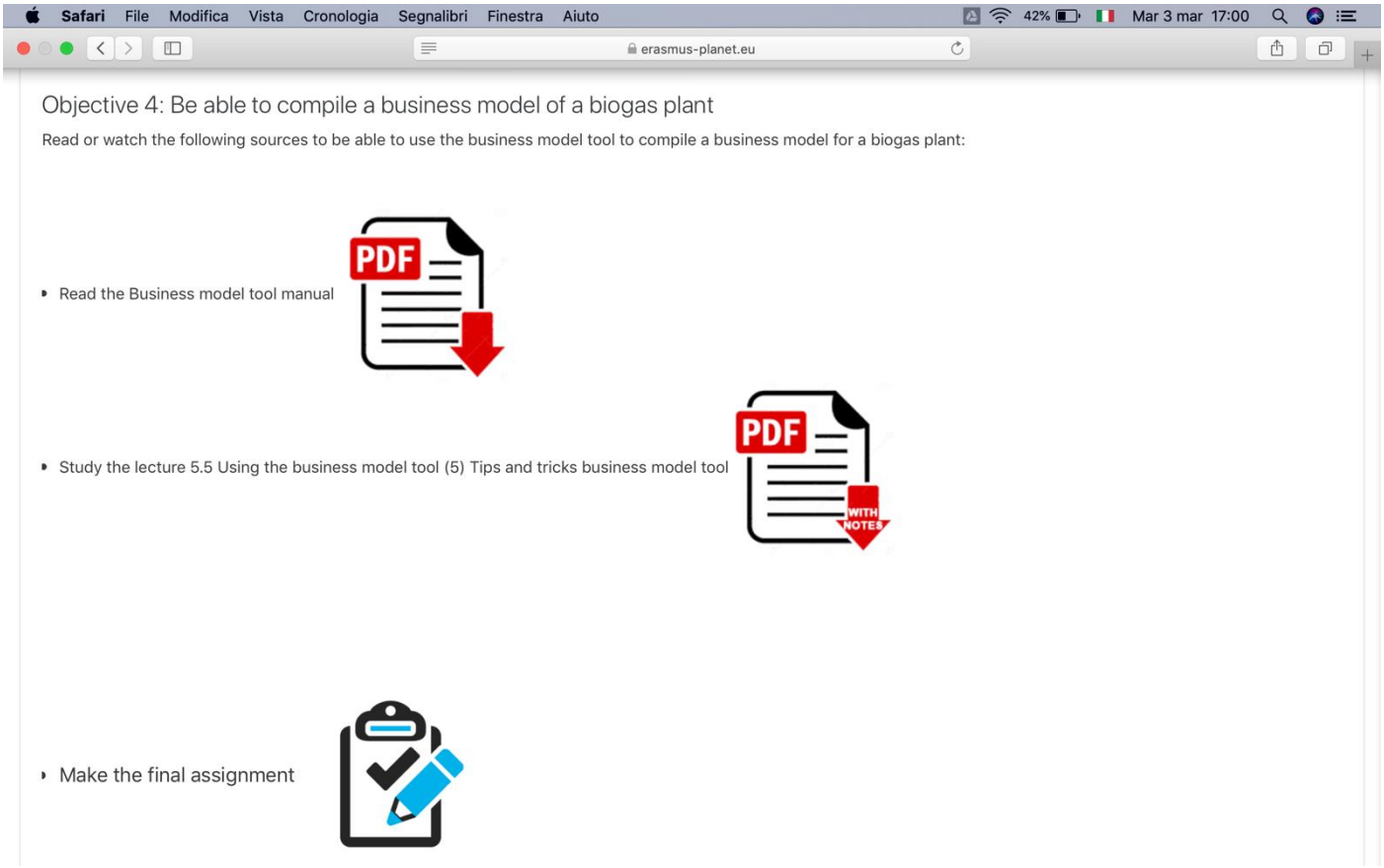


Figura 189

SIX:

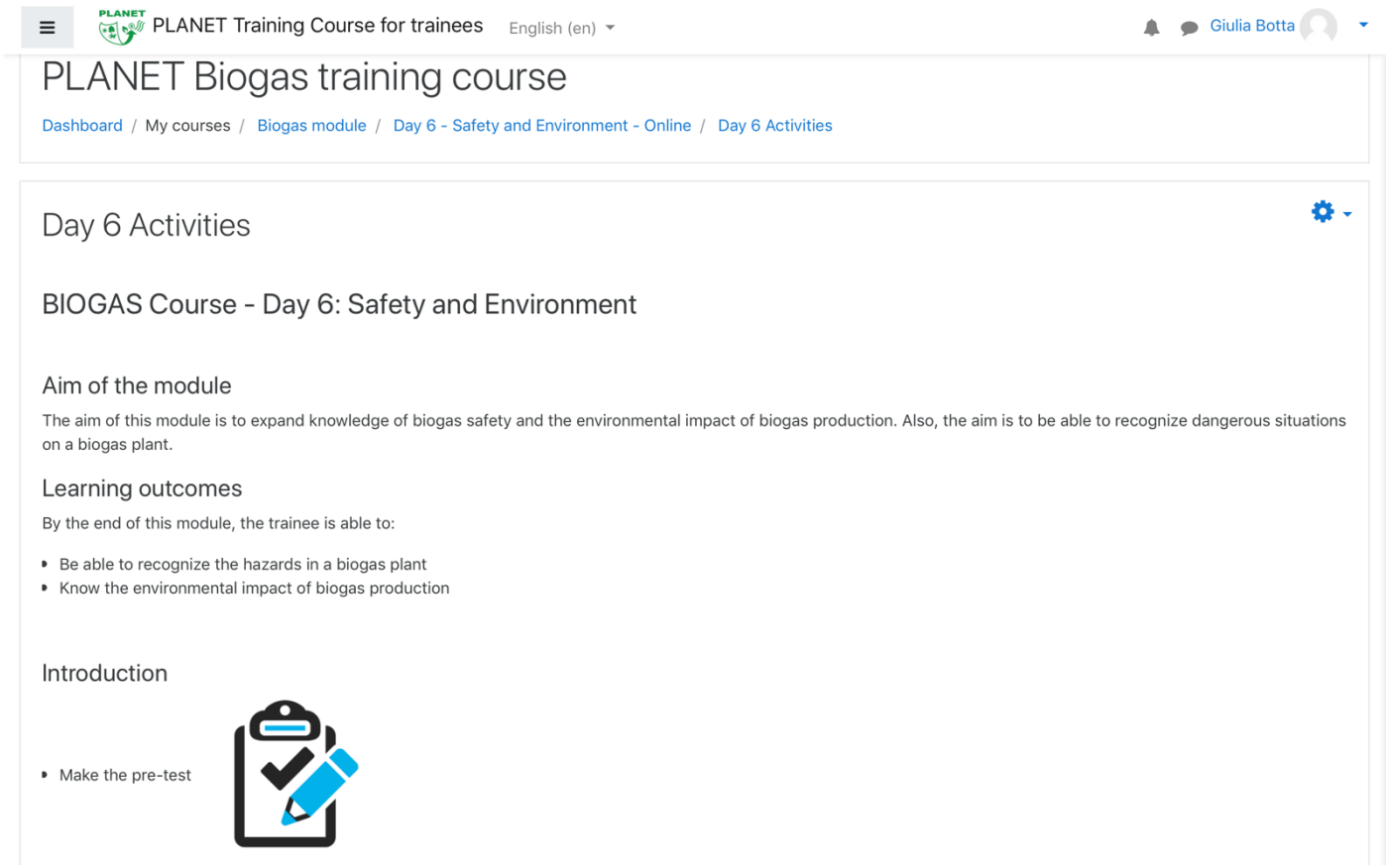
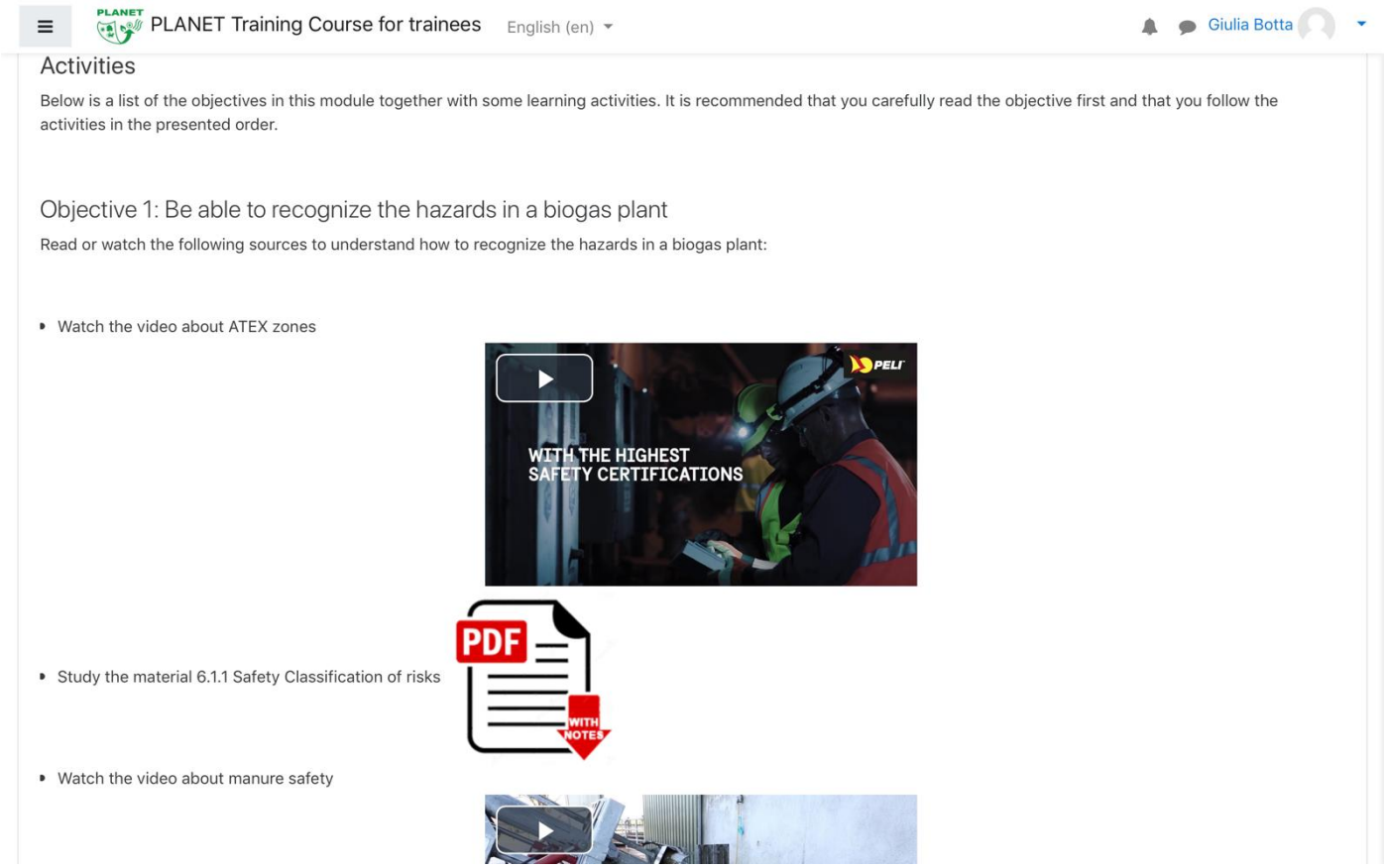


Figura 190

PLANET – PLan for Agriculture reNewable Energy Training



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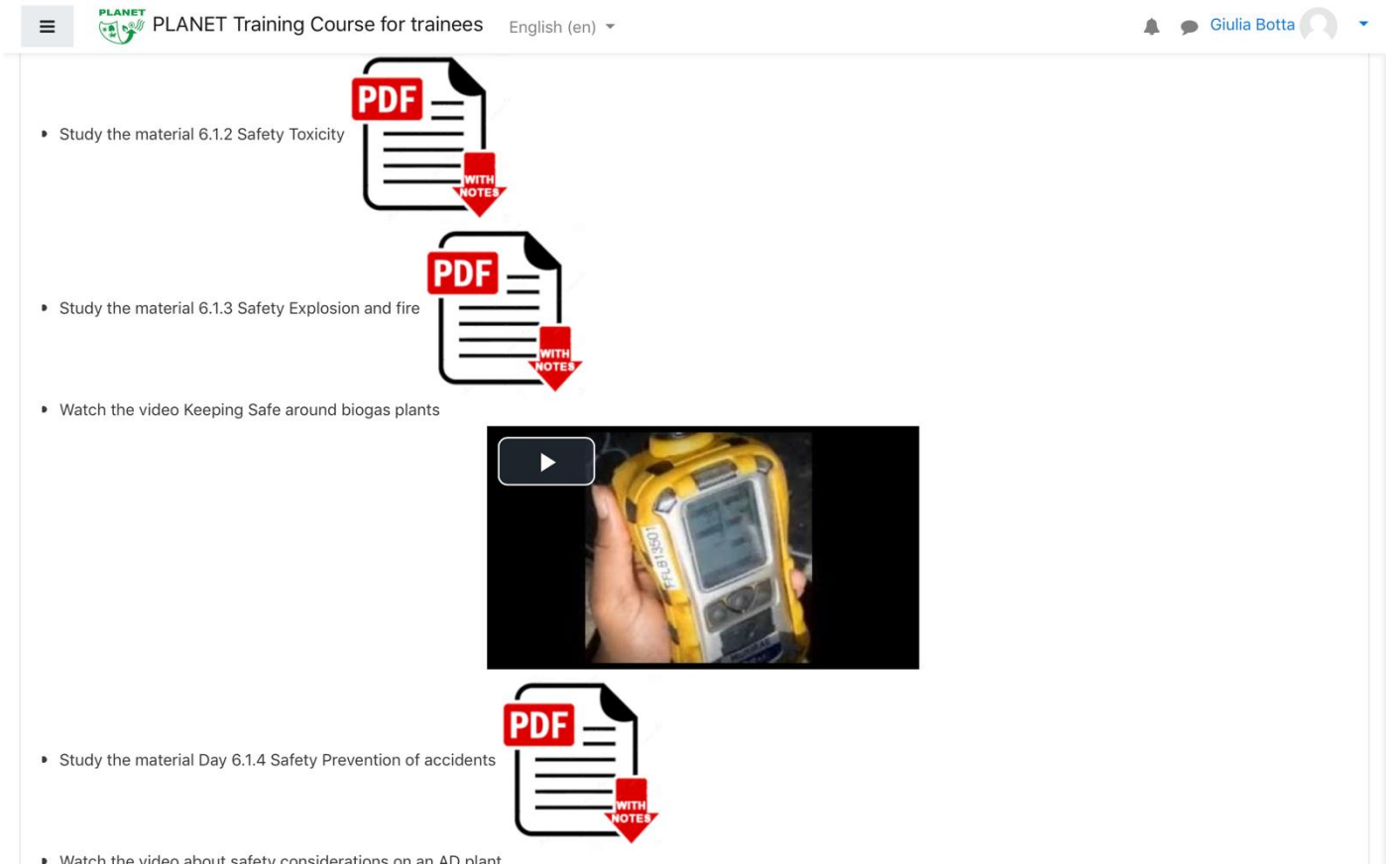

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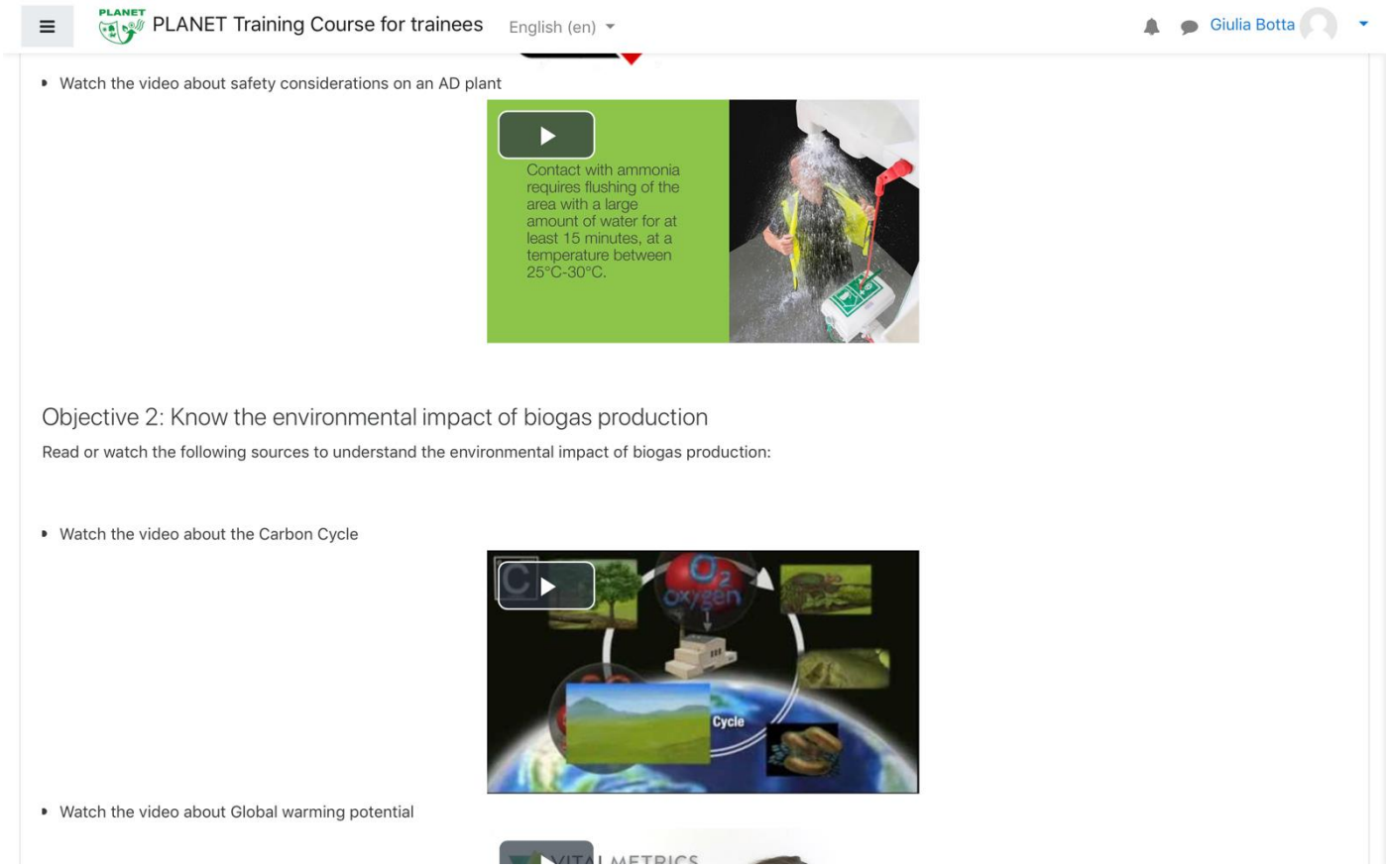

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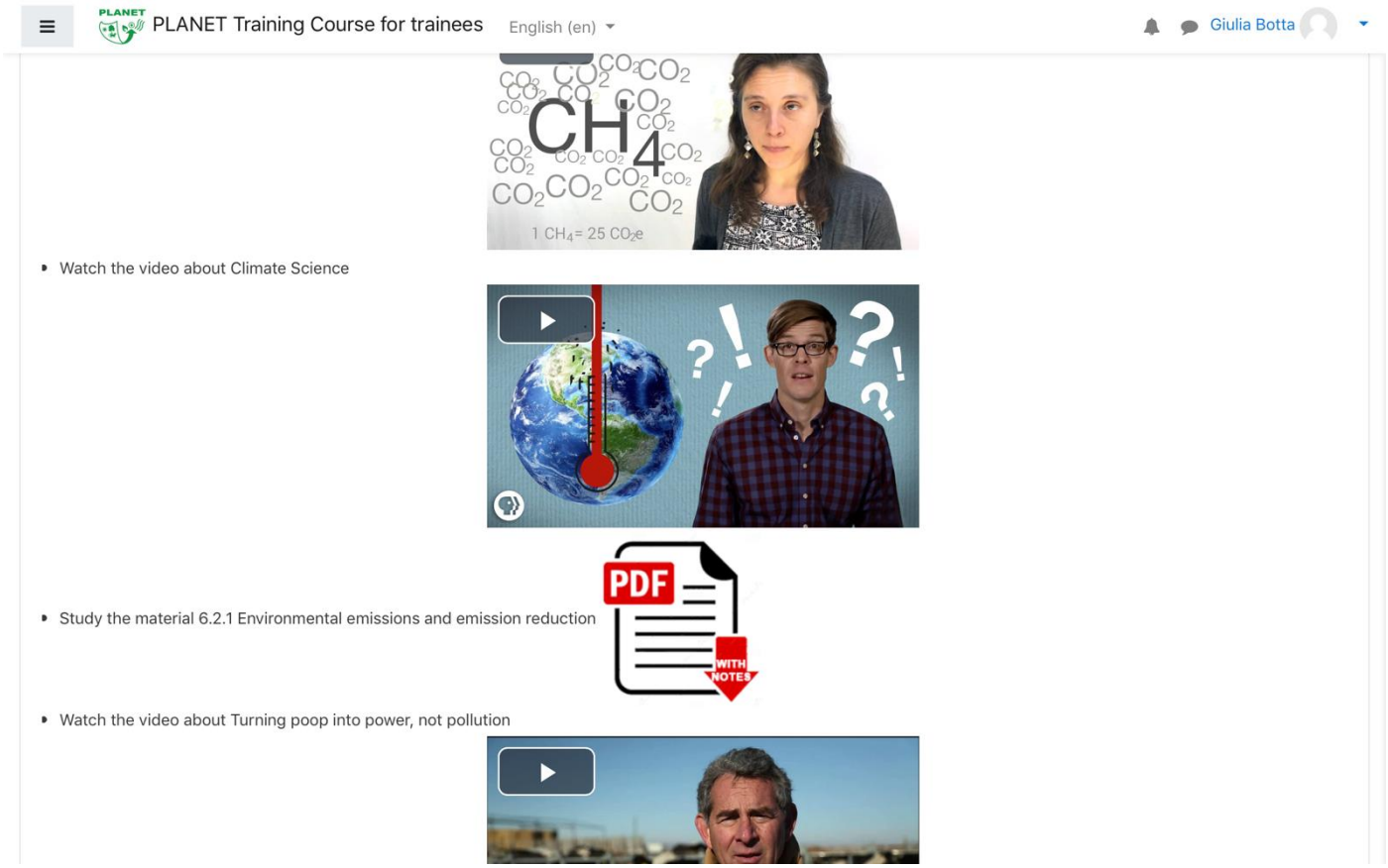

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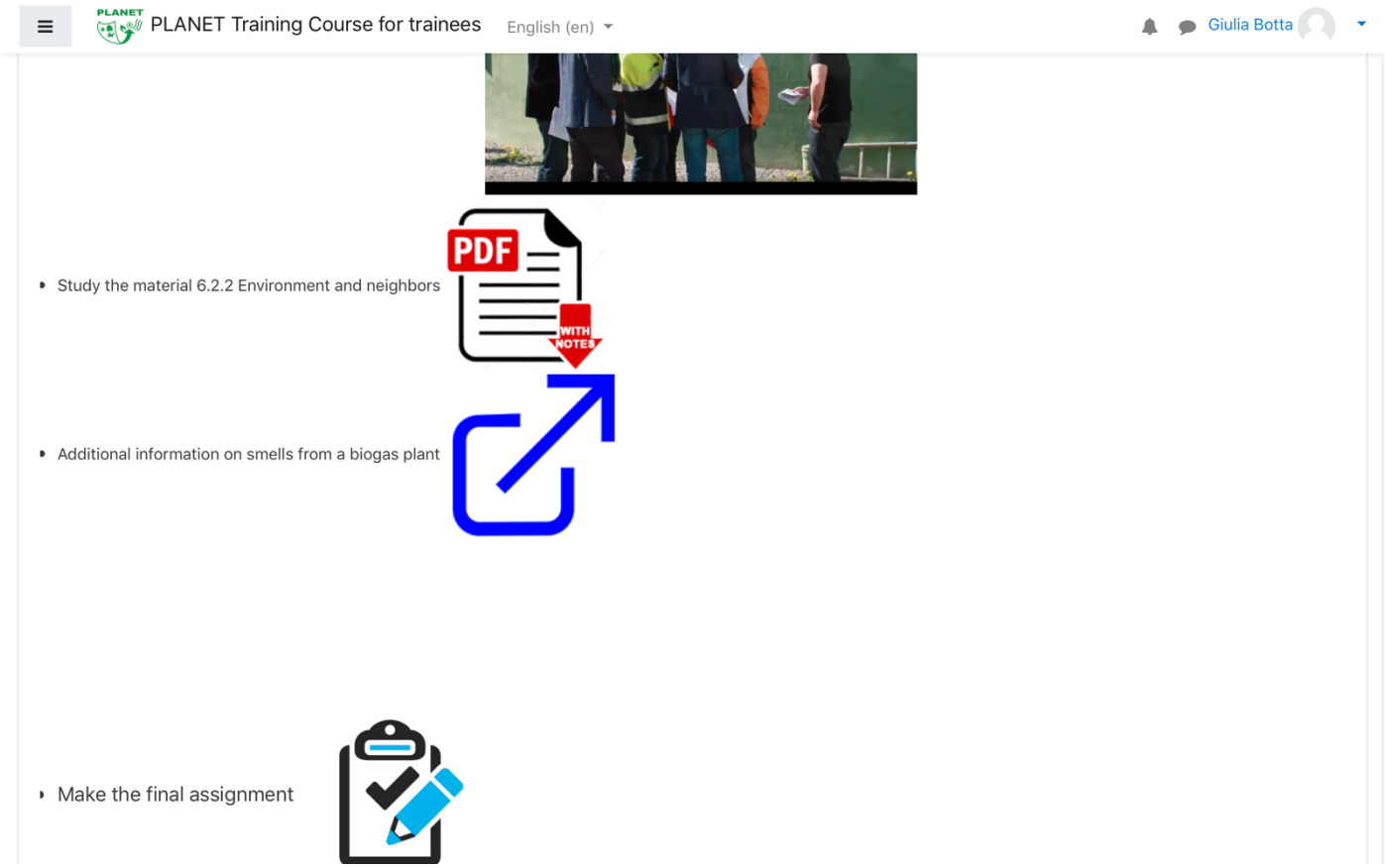


Figura 195

PLANET – PLan for Agriculture reNewable Energy Training

SEVEN:

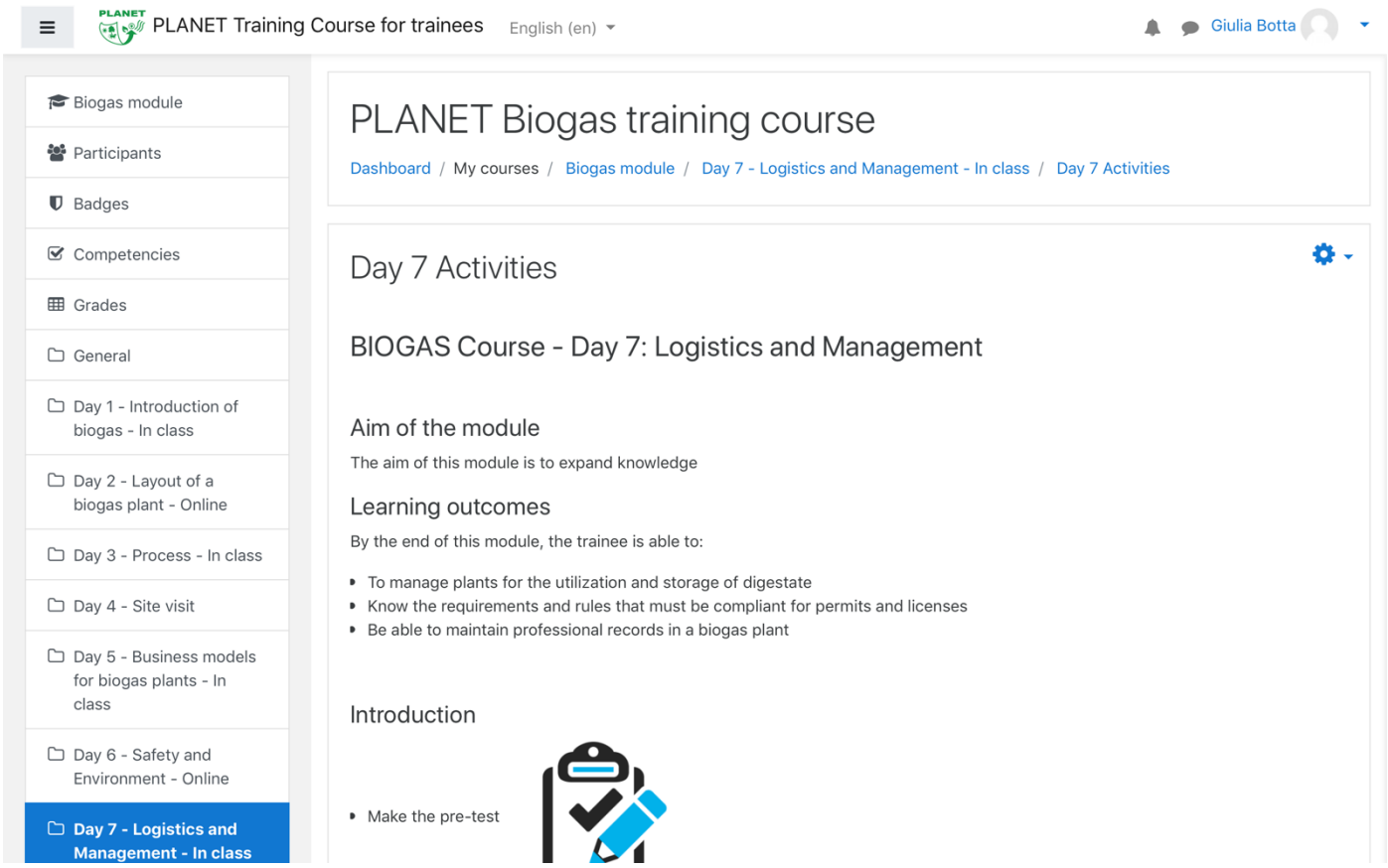


Figura 196

PLANET – PLan for Agriculture reNewable Energy Training

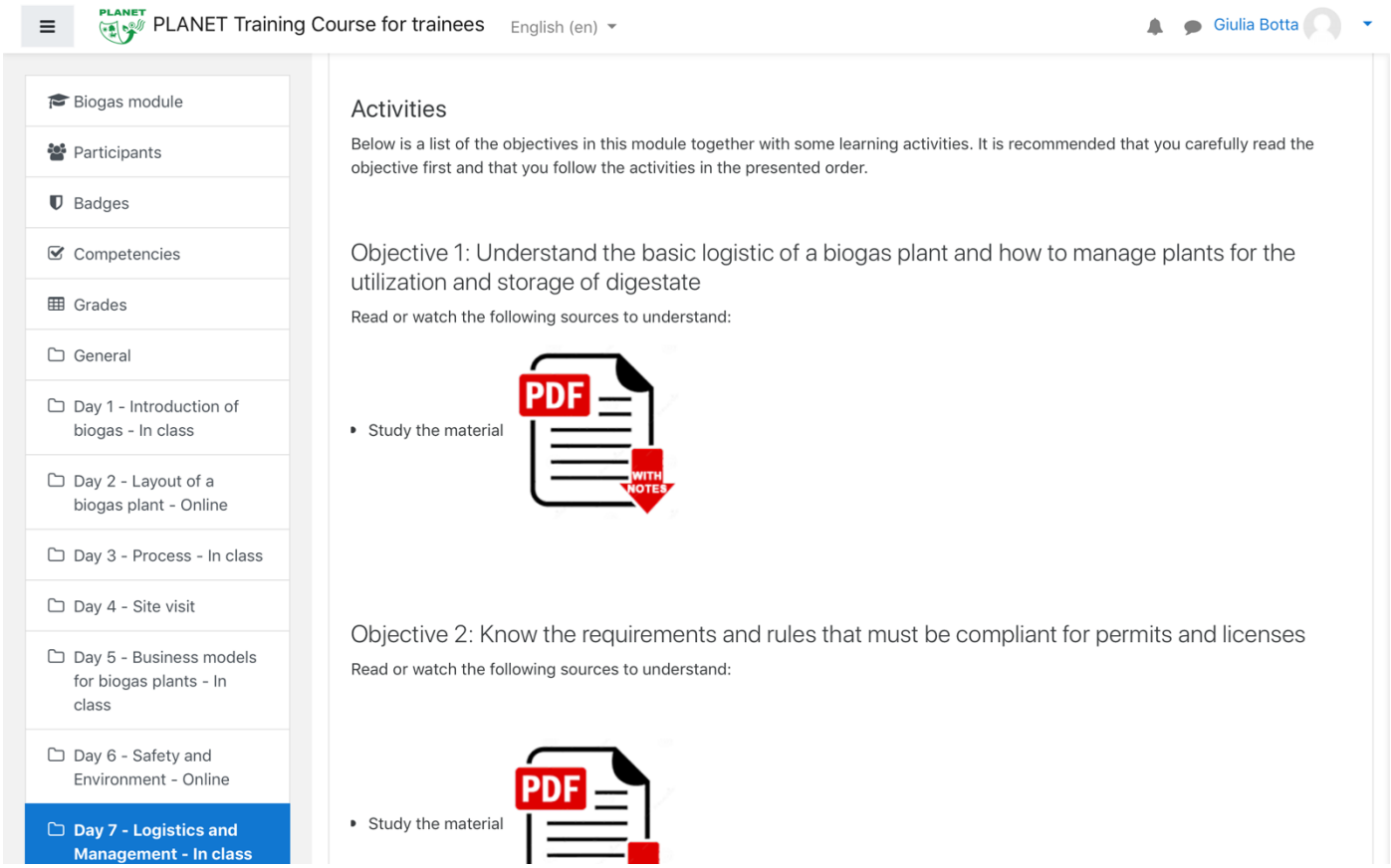


Figura 197

PLANET – PLan for Agriculture reNewable Energy Training

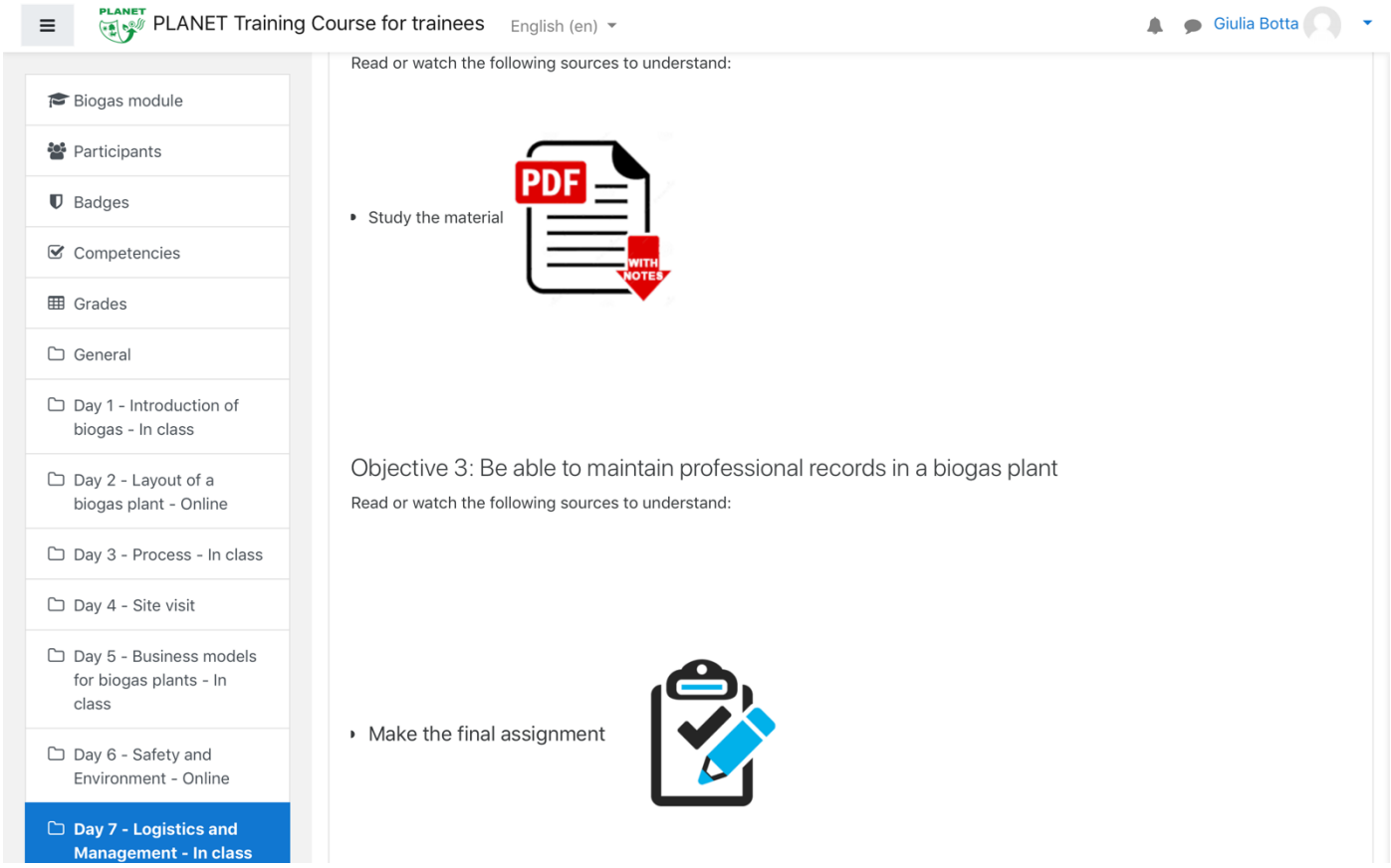


Figura 198

PLANET – PLan for Agriculture reNewable Energy Training

EIGHT:

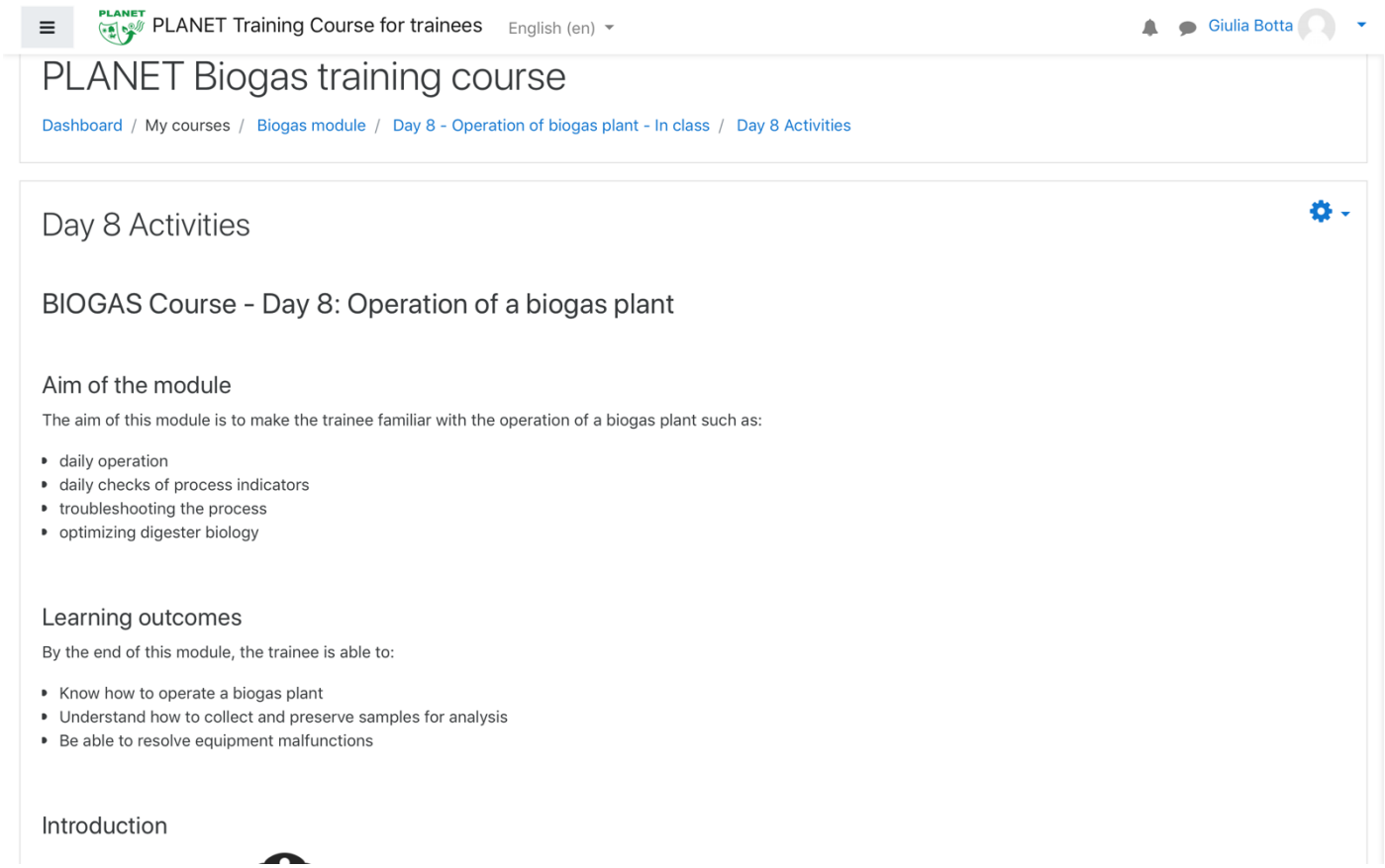


Figura 199

PLANET – PLan for Agriculture reNewable Energy Training

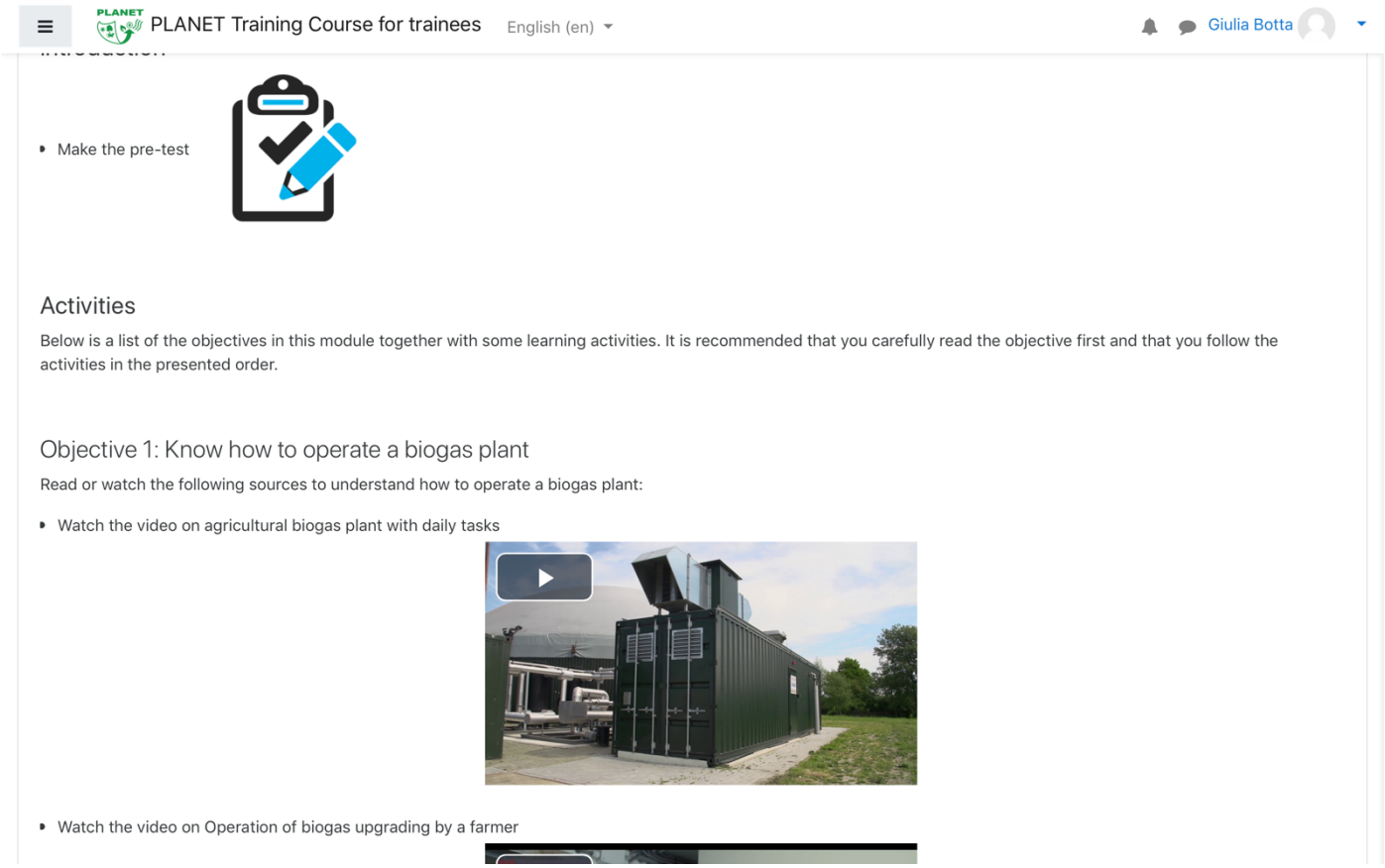


Figura 200

PLANET – PLan for Agriculture reNewable Energy Training

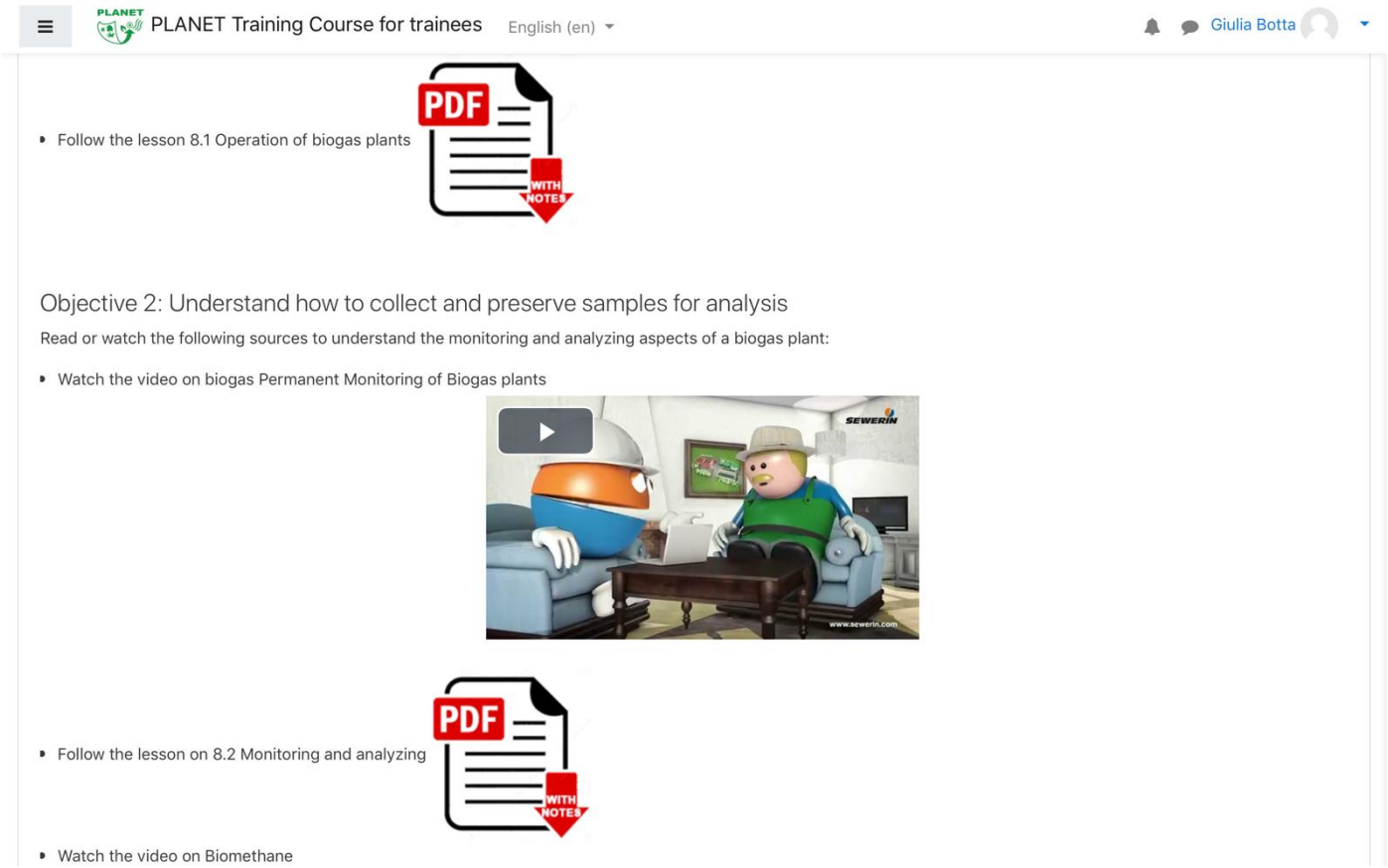
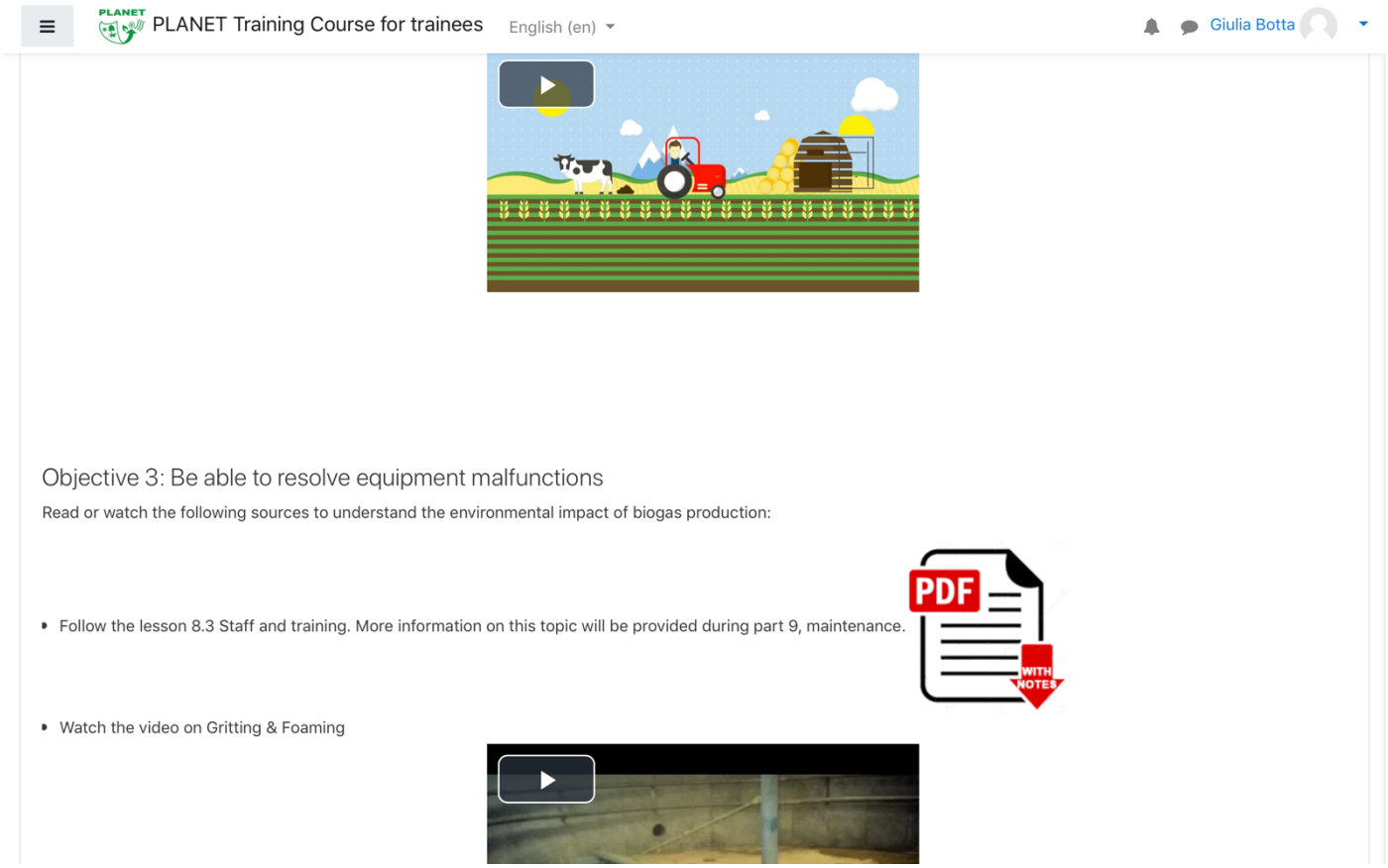


Figura 201

PLANET – PLan for Agriculture reNewable Energy Training



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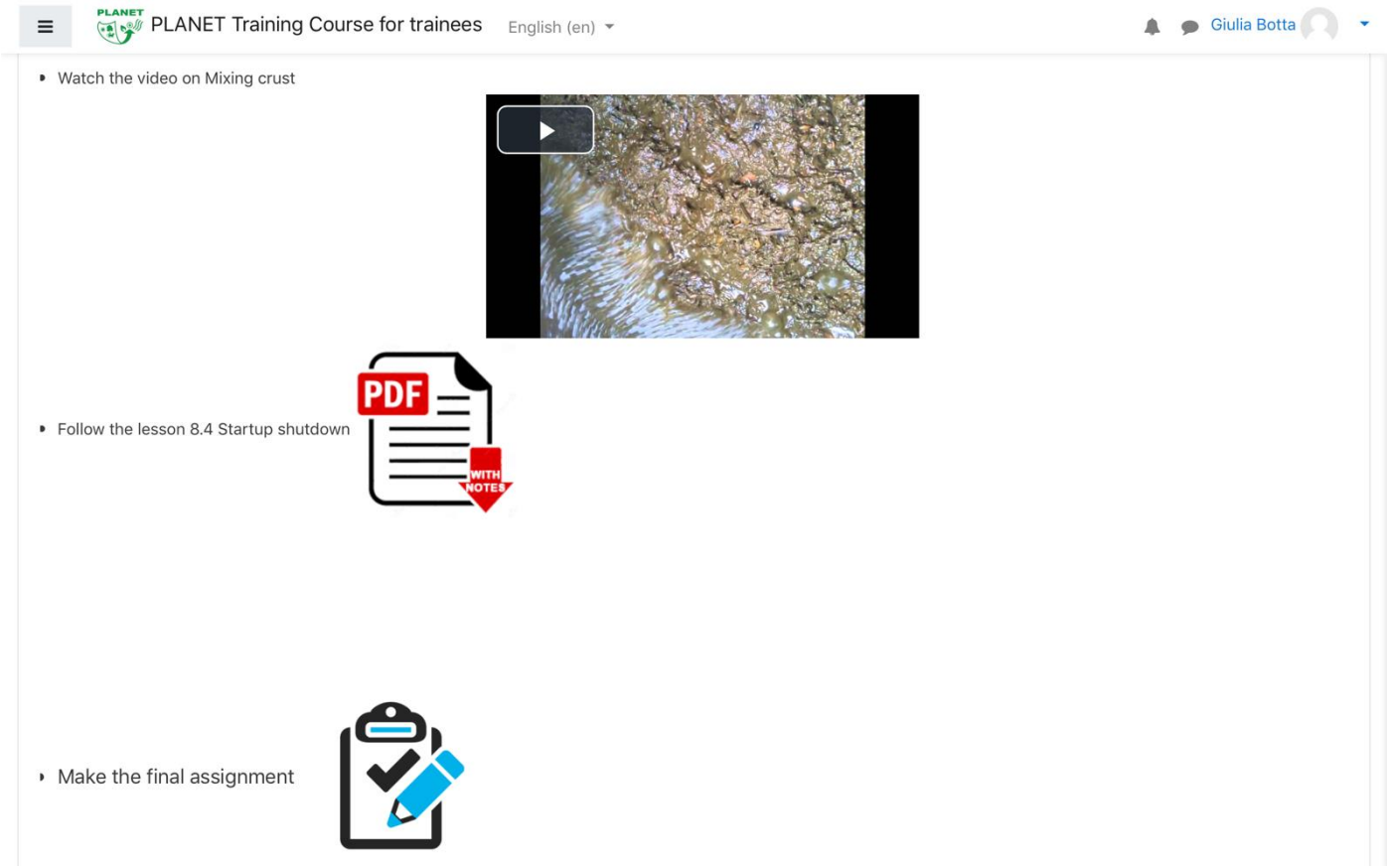
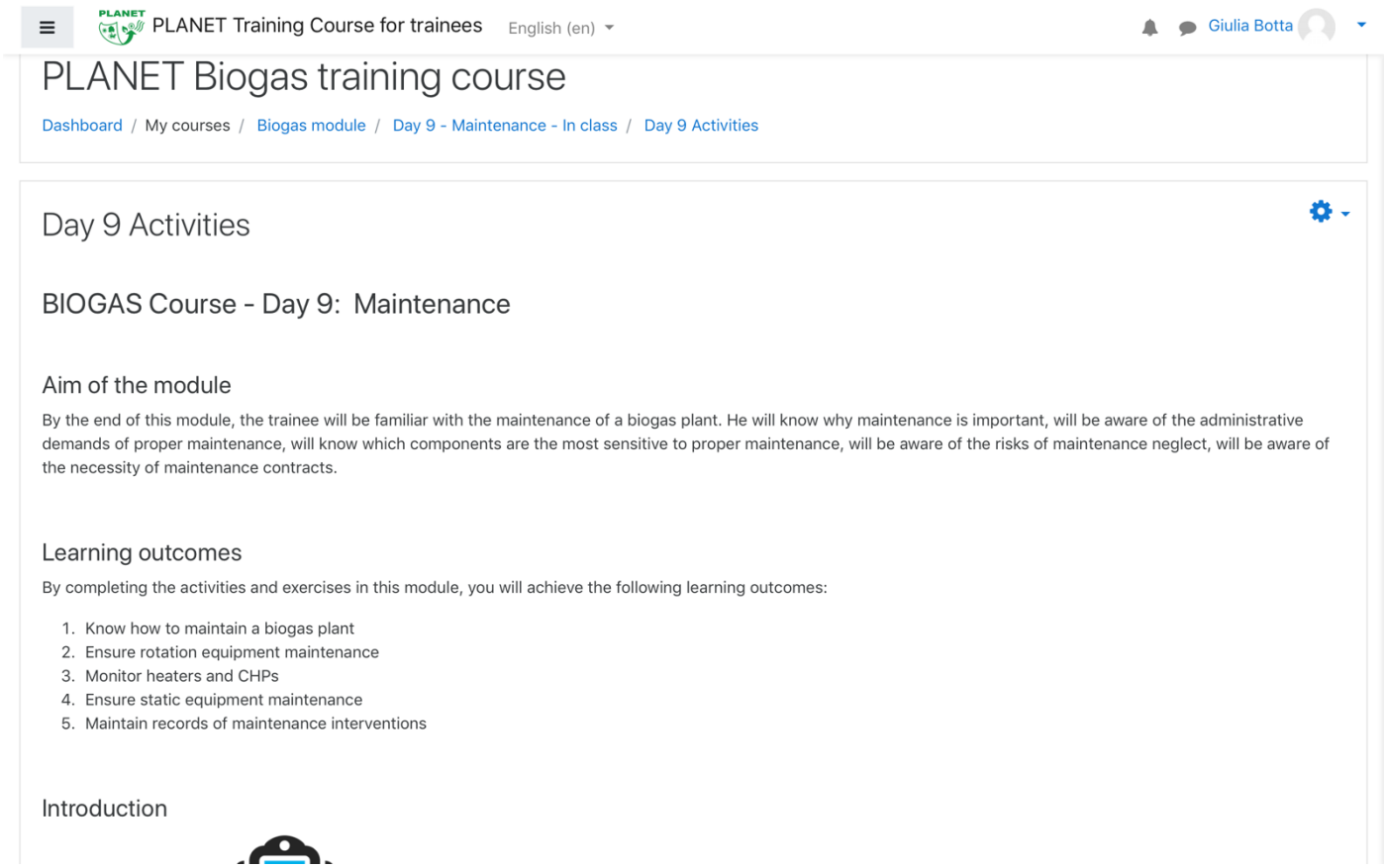


Figura 203

PLANET – PLan for Agriculture reNewable Energy Training

NINE:



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PLANET – PLan for Agriculture reNewable Energy Training

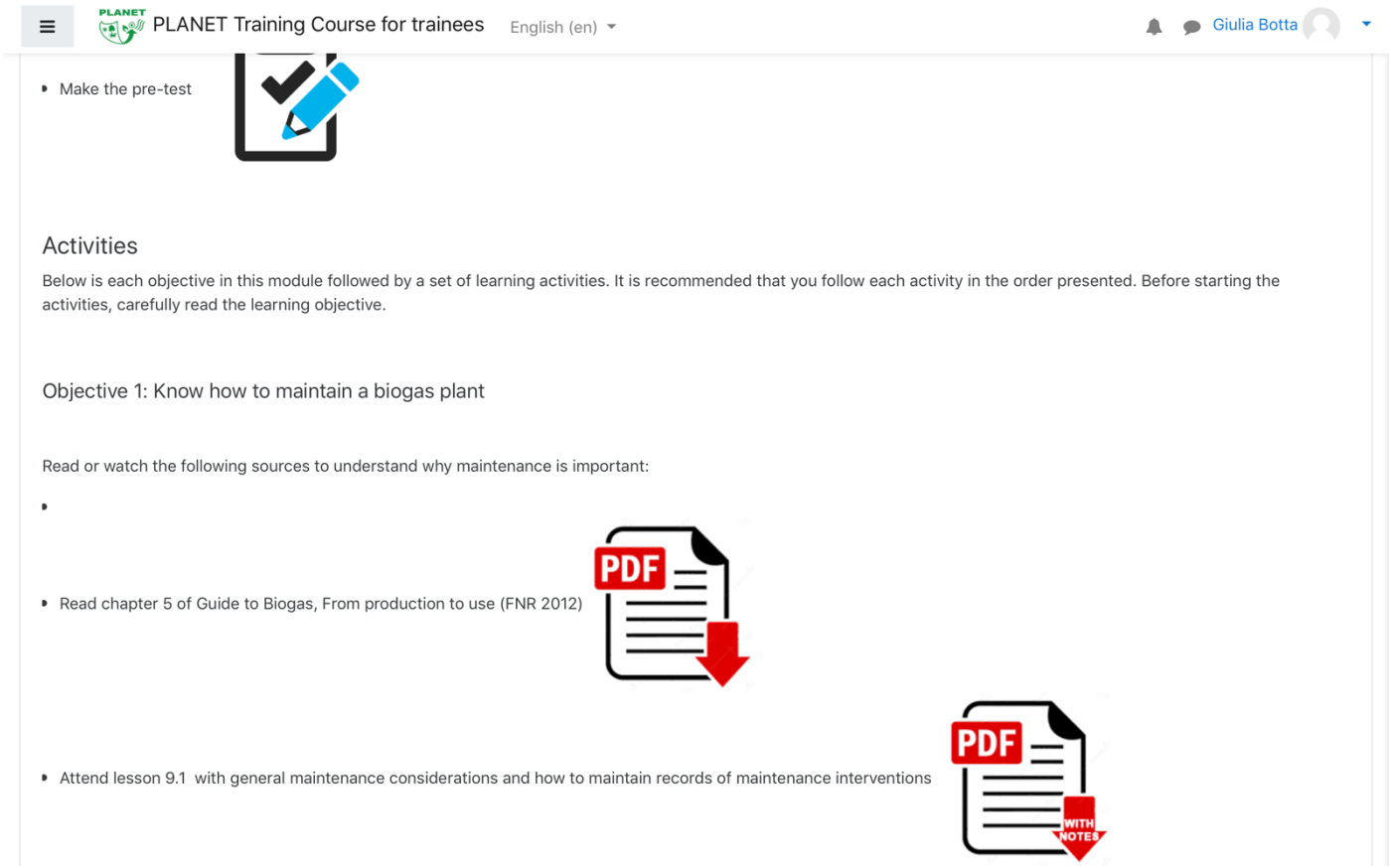

Figura 205

PLANET – PLan for Agriculture reNewable Energy Training

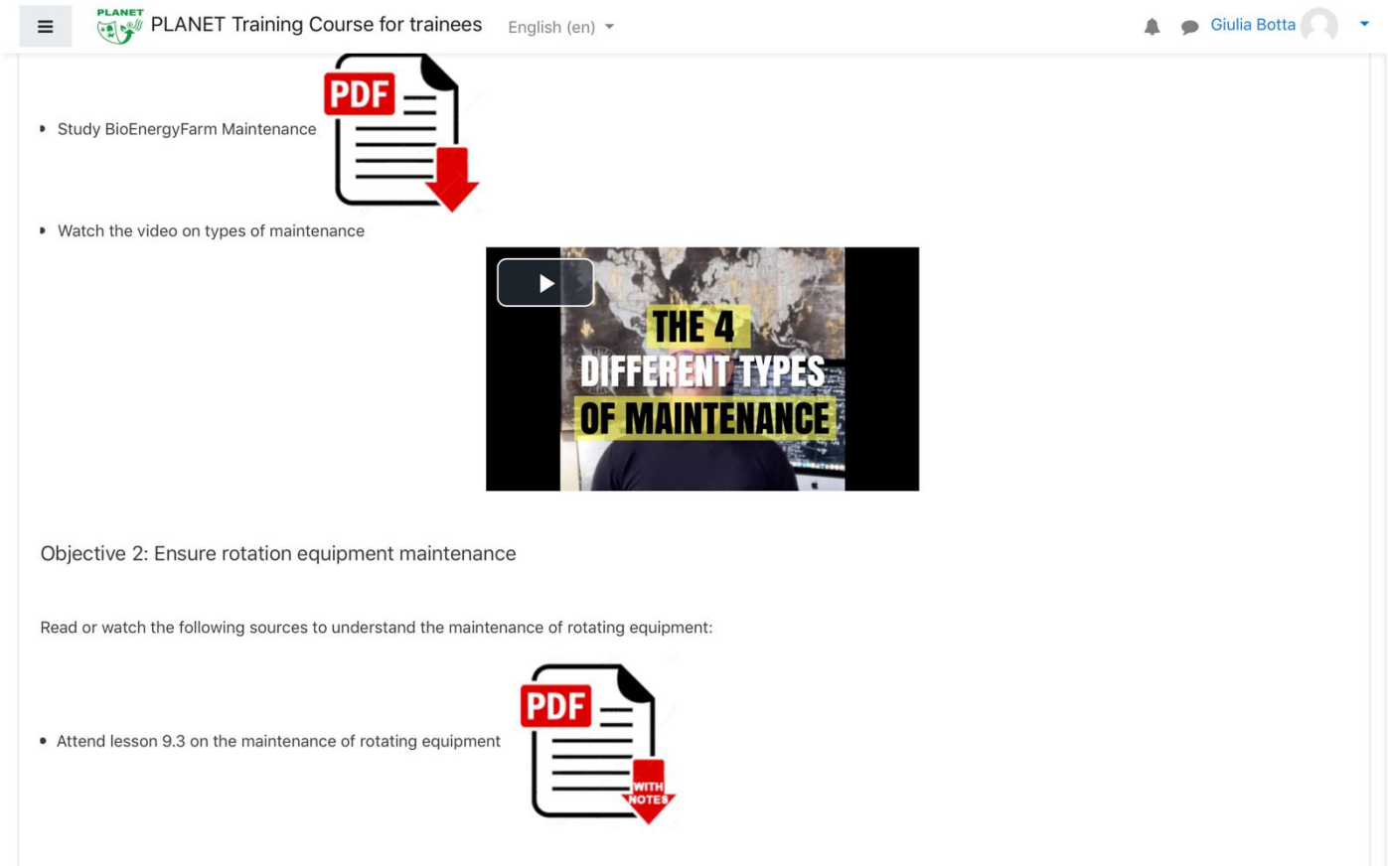

Figura 206

PLANET – PLan for Agriculture reNewable Energy Training

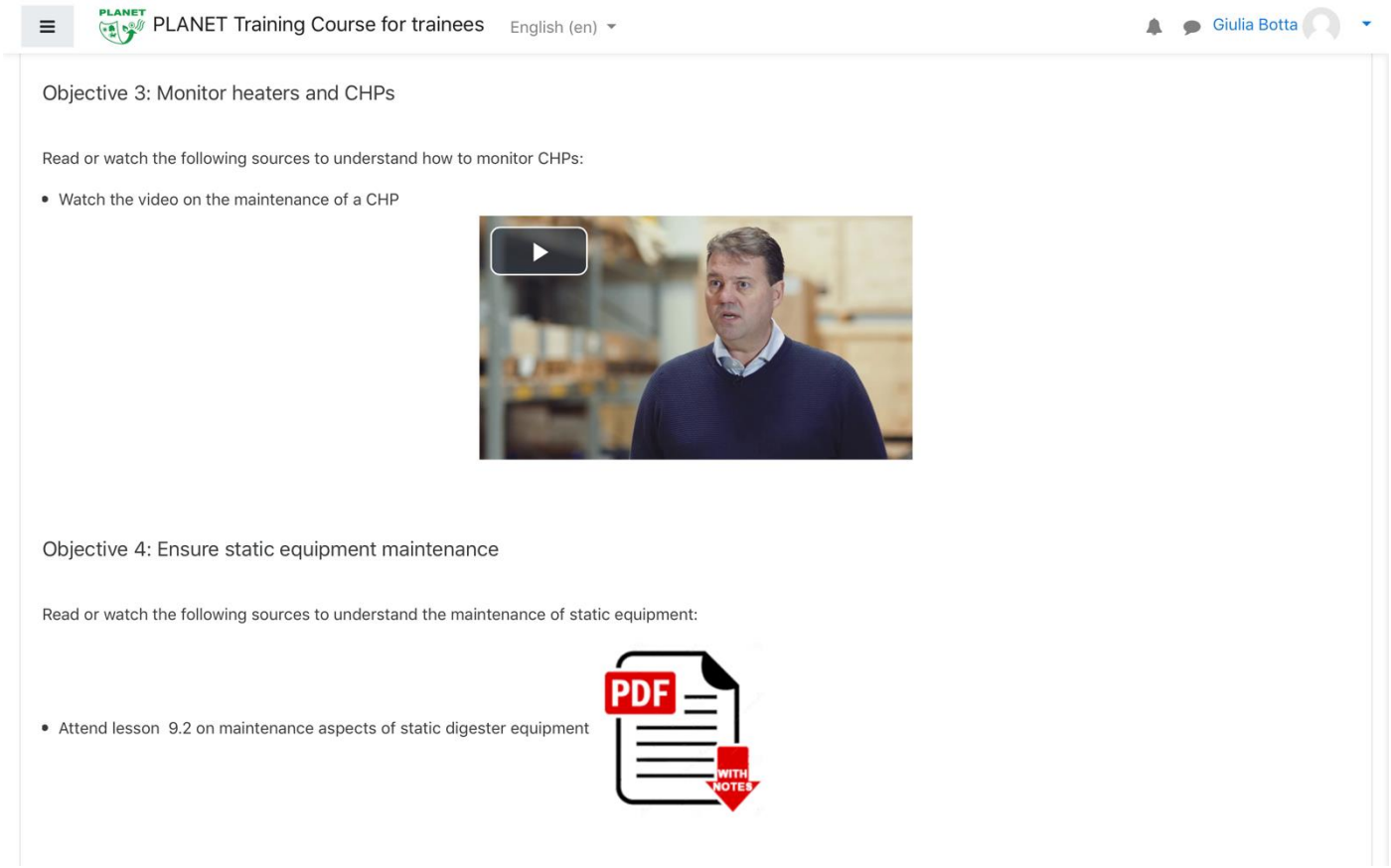

Figura 207

PLANET – PLan for Agriculture reNewable Energy Training

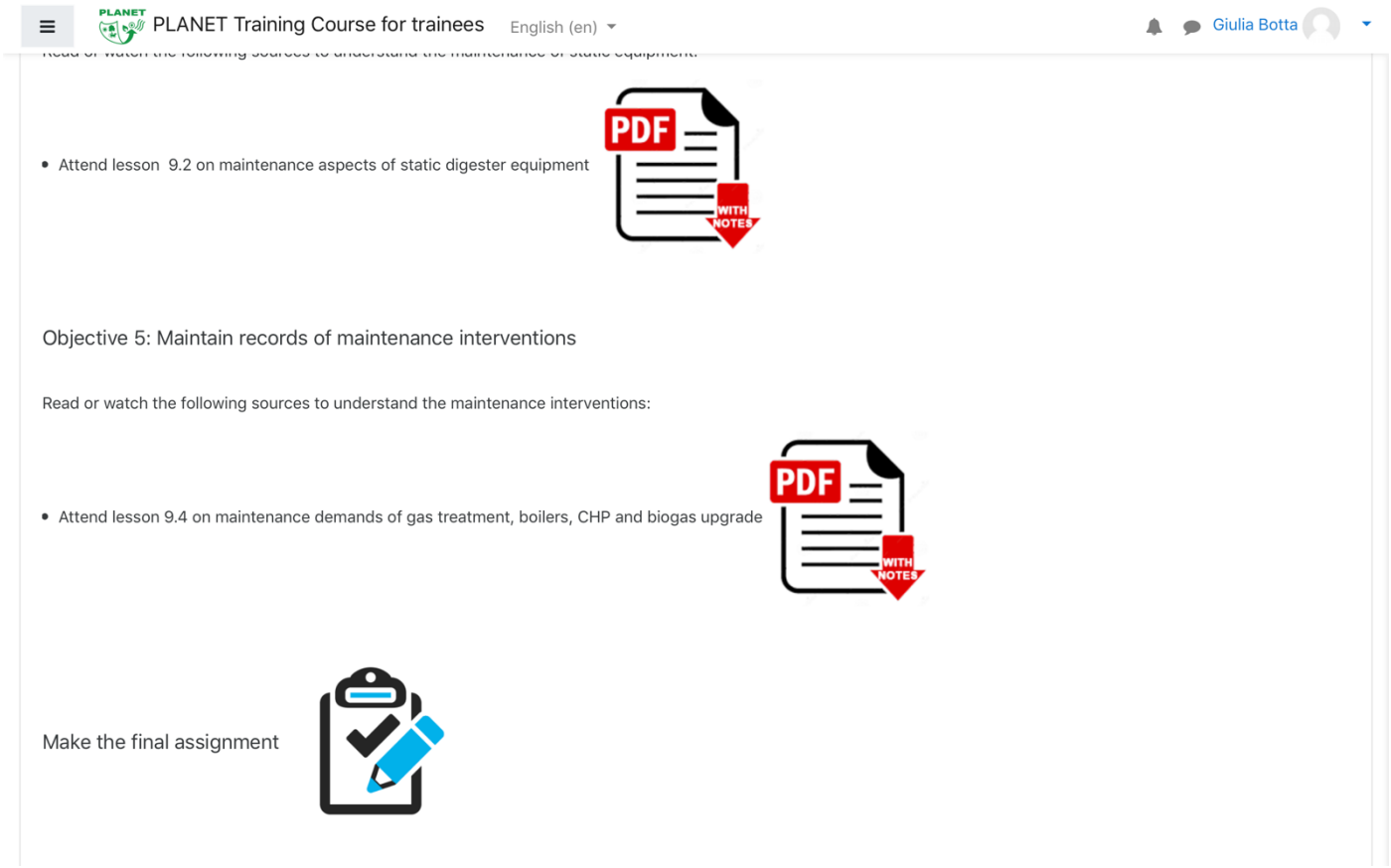

Figura 208

PLANET – PLan for Agriculture reNewable Energy Training

PLANET ICT training course

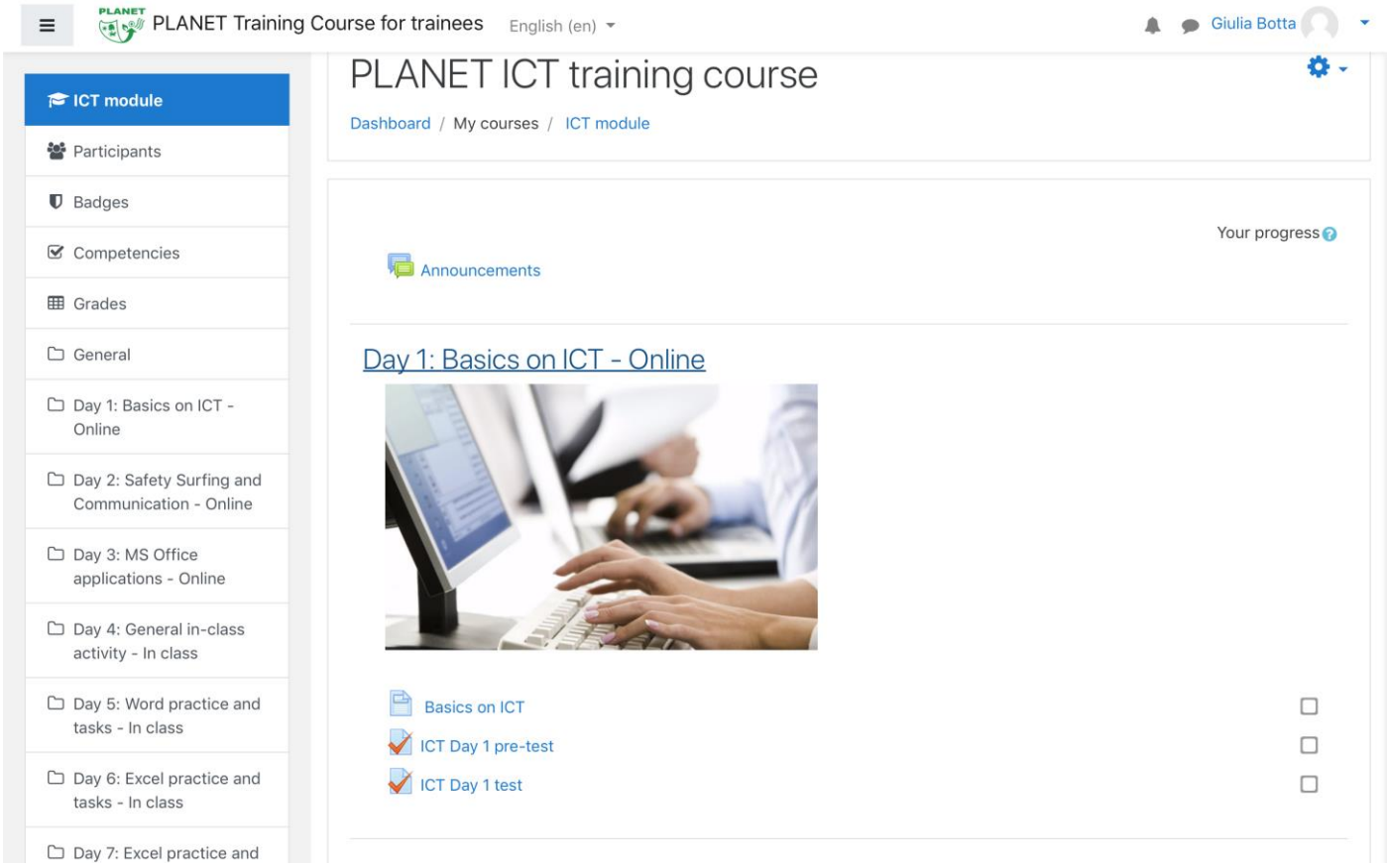

Figura 209

PLANET – PLan for Agriculture reNewable Energy Training

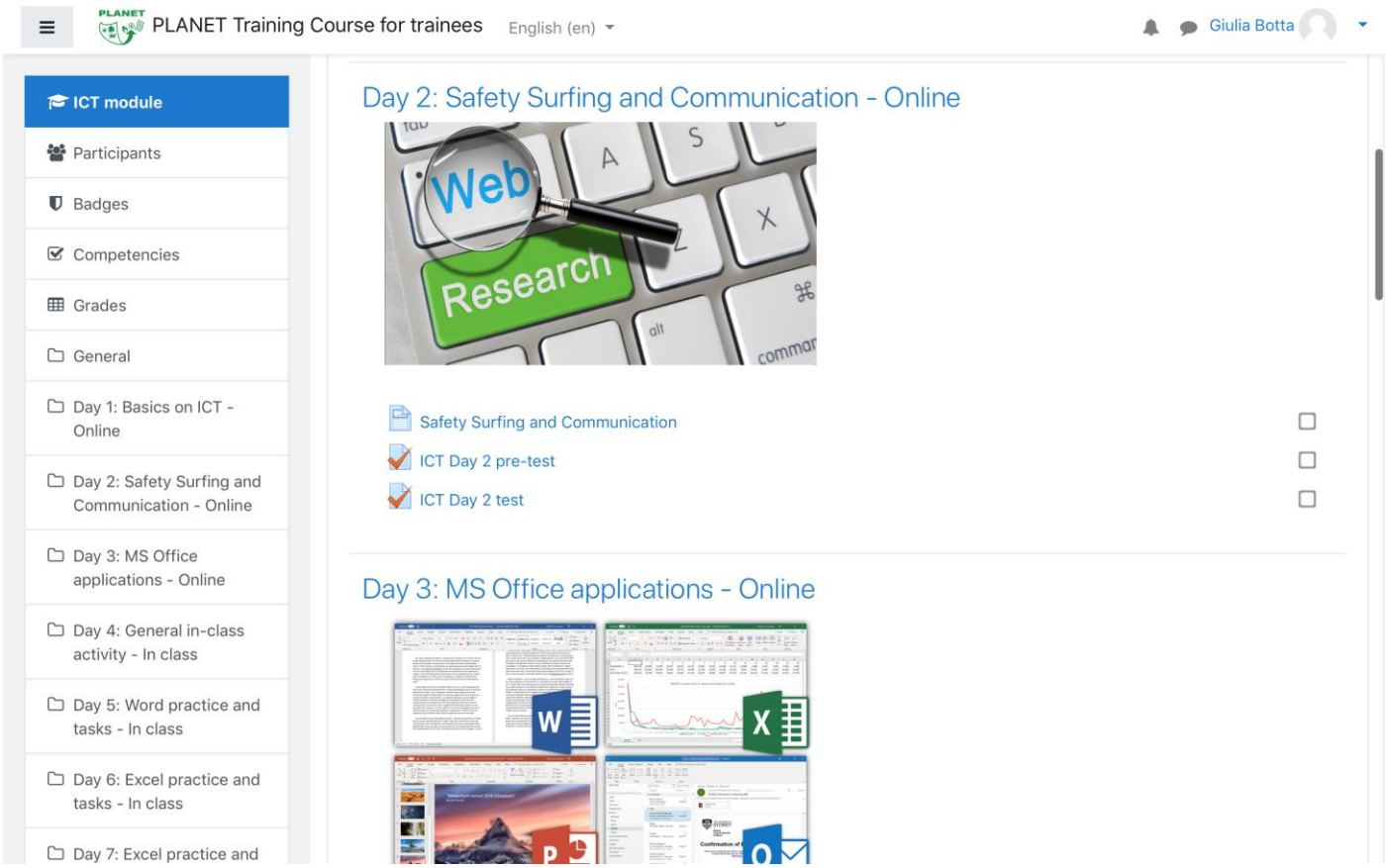

Figura 210

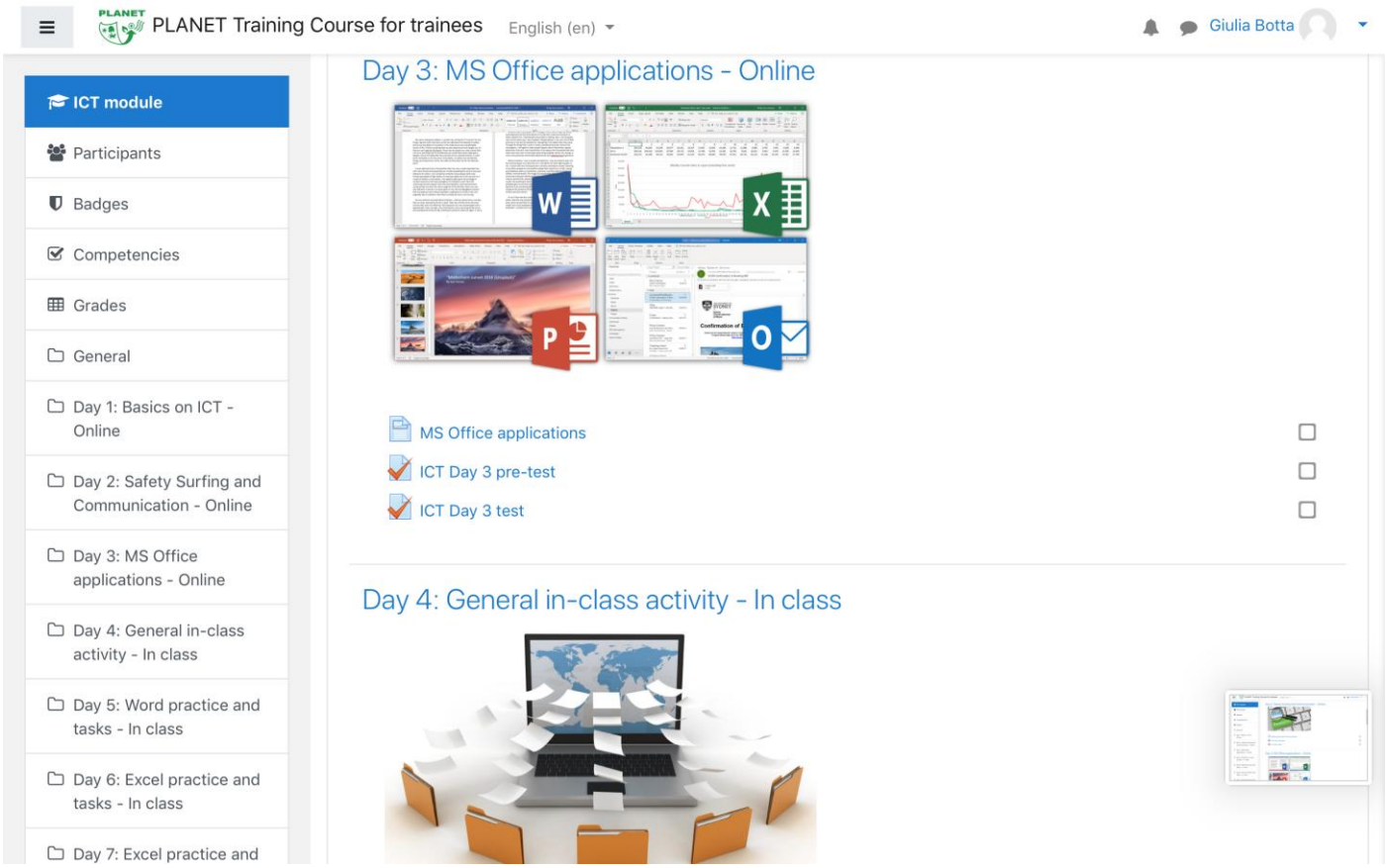
PLANET Training Course for trainees
English (en)
Giulia Botta
ICT module
Participants
Badges
Competencies
Grades
General
Day 1: Basics on ICT - Online
Day 2: Safety Surfing and Communication - Online
Day 3: MS Office applications - Online
Day 4: General in-class activity - In class
Day 5: Word practice and tasks - In class
Day 6: Excel practice and tasks - In class
Day 7: Excel practice and
Day 3: MS Office applications - Online
MS Office applications
ICT Day 3 pre-test
ICT Day 3 test
Day 4: General in-class activity - In class

Figura 211

PLANET – PLan for Agriculture reNewable Energy Training

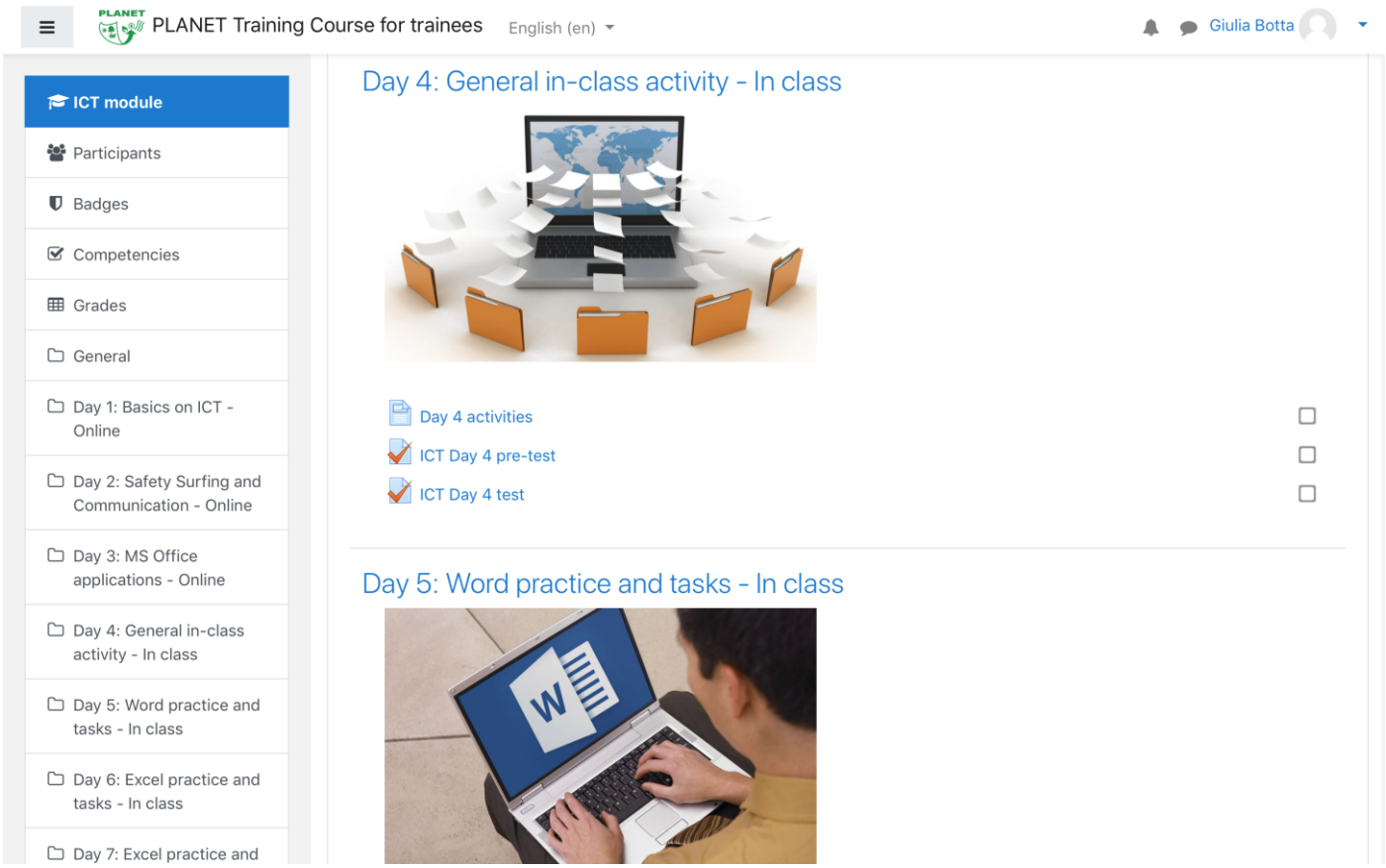

Figura 212

PLANET – PLan for Agriculture reNewable Energy Training

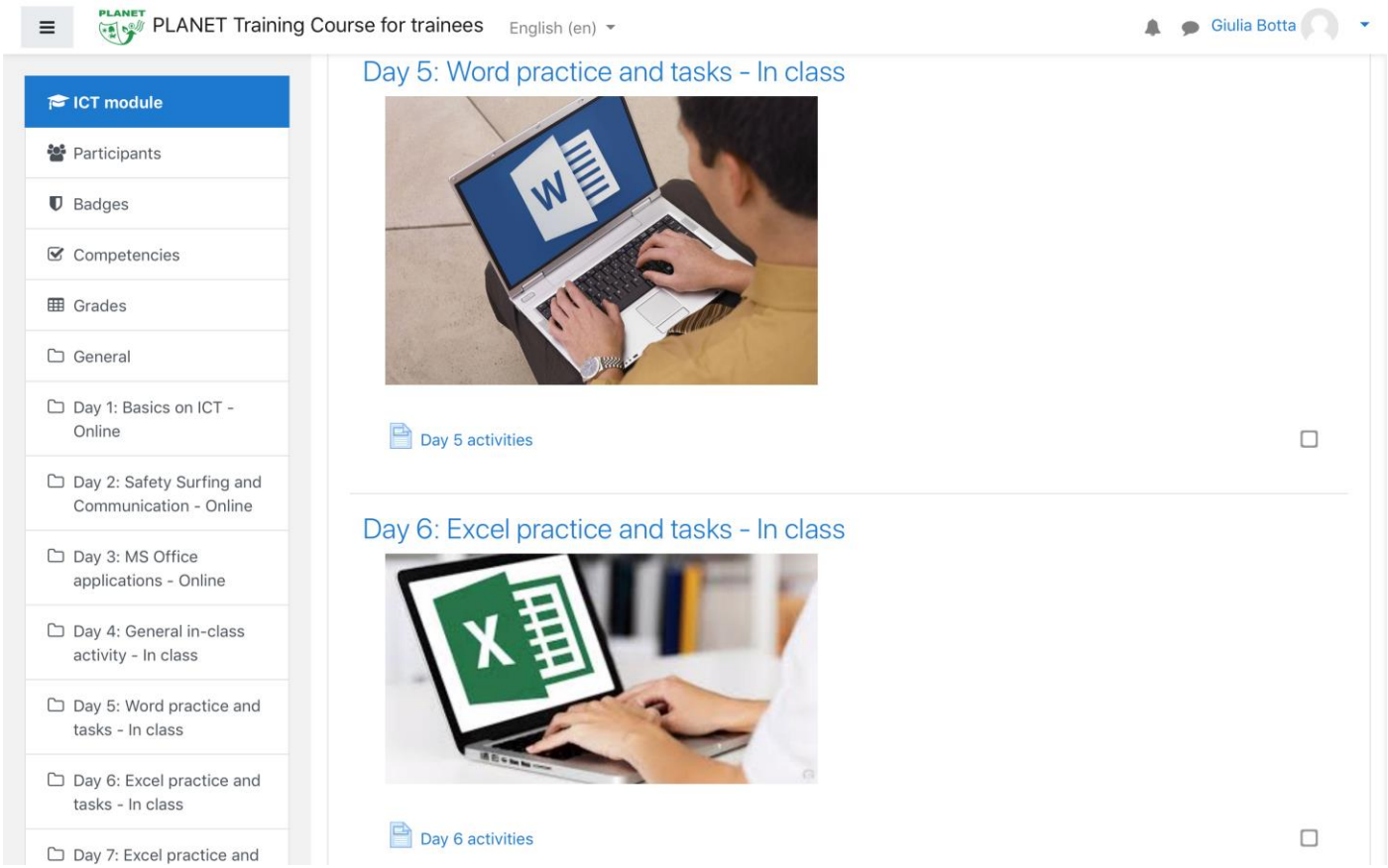

Figura 213

PLANET – PLan for Agriculture reNewable Energy Training

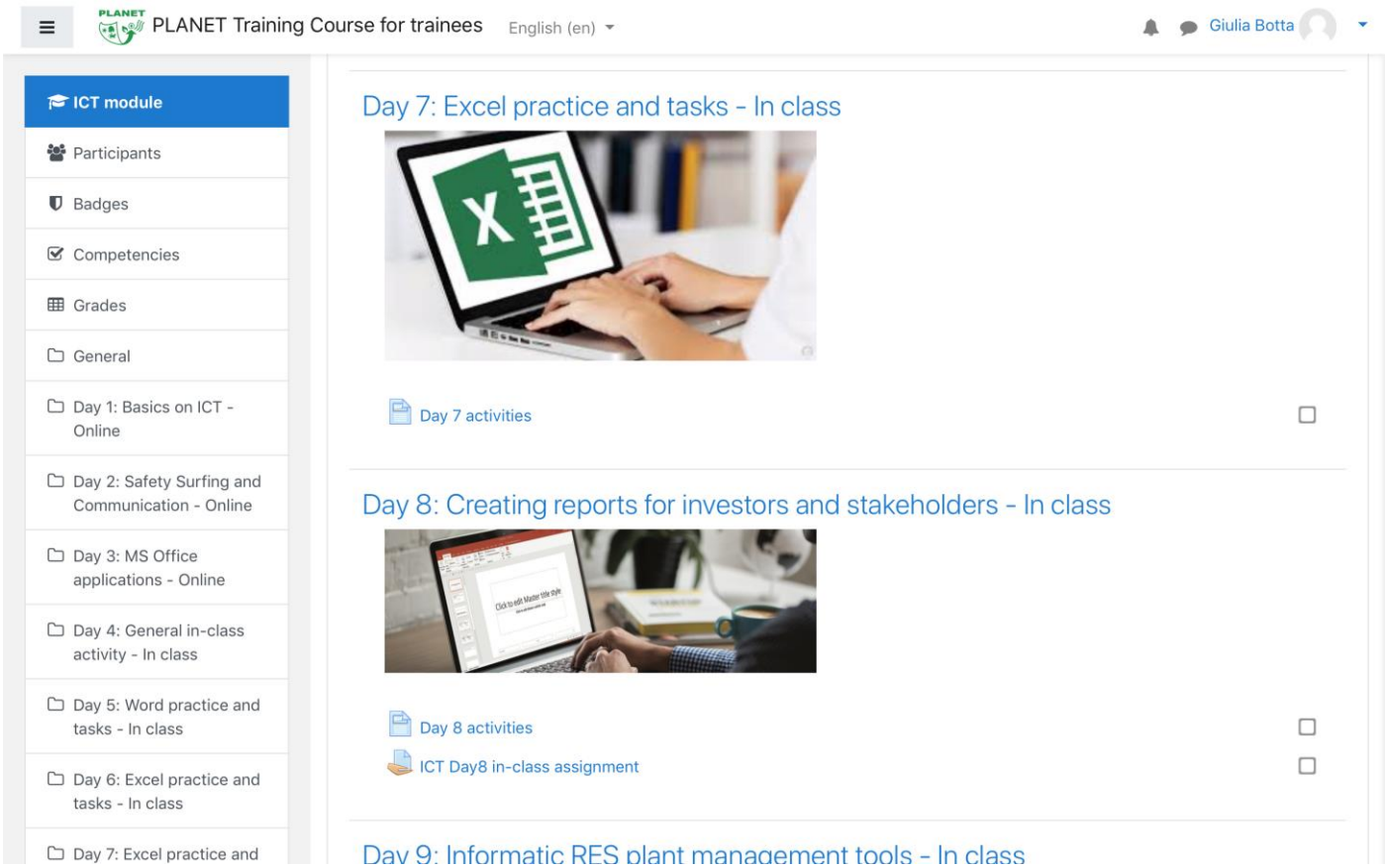

Figura 214

PLANET – PLan for Agriculture reNewable Energy Training

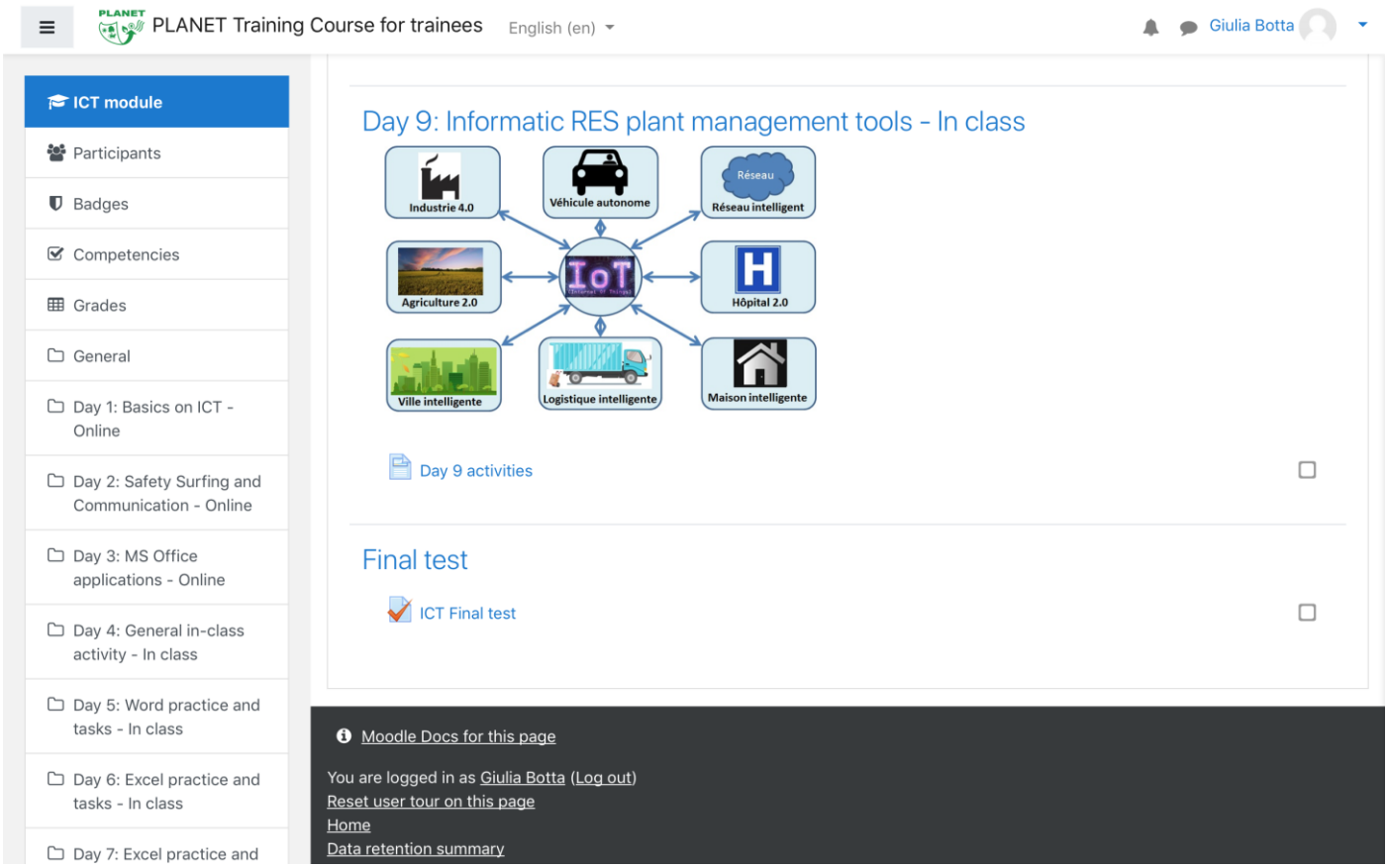

Figura 215

PLANET – PLan for Agriculture reNewable Energy Training

ACTIVITIES:

ONE:

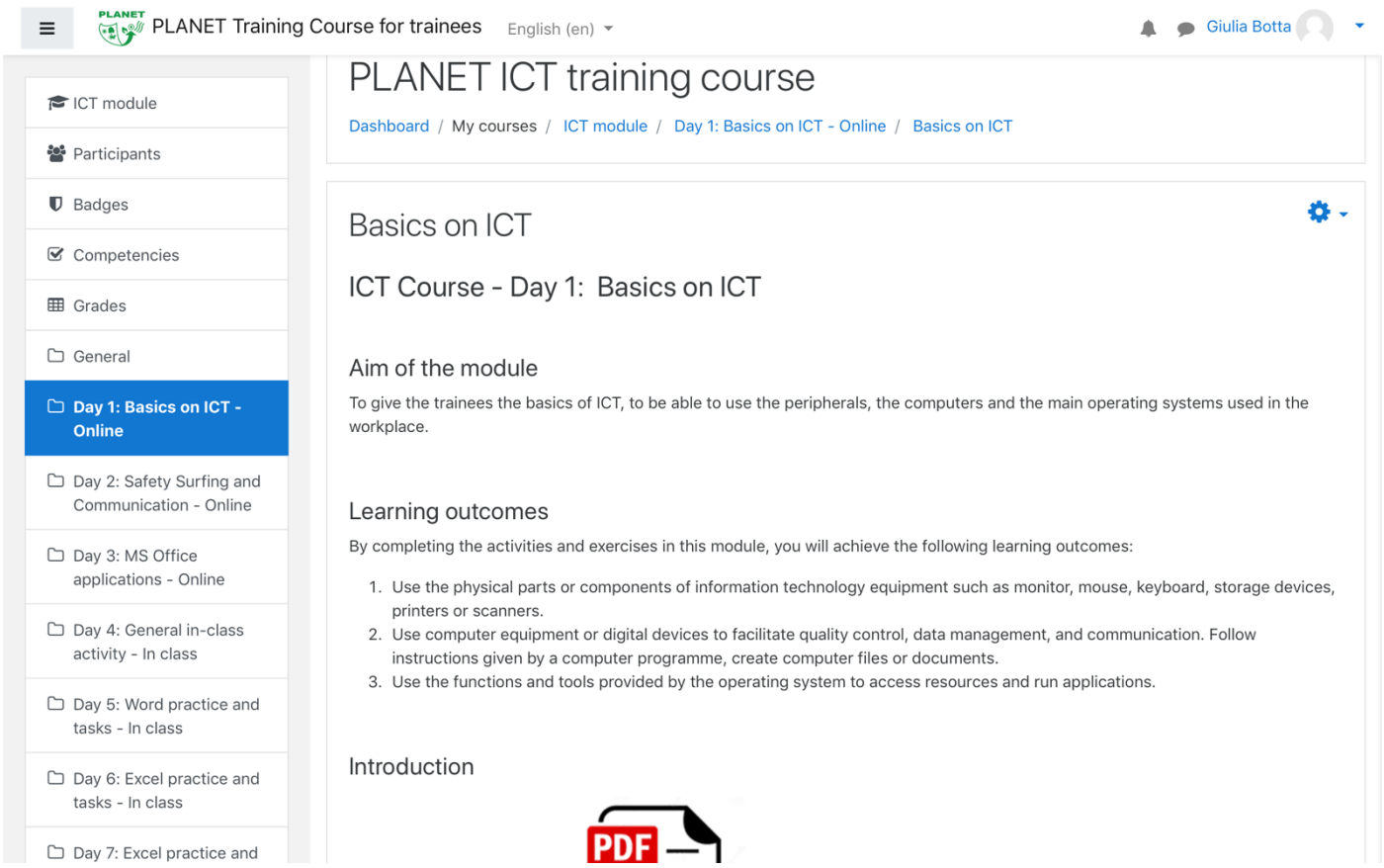

Figura 216

PLANET – PLan for Agriculture reNewable Energy Training

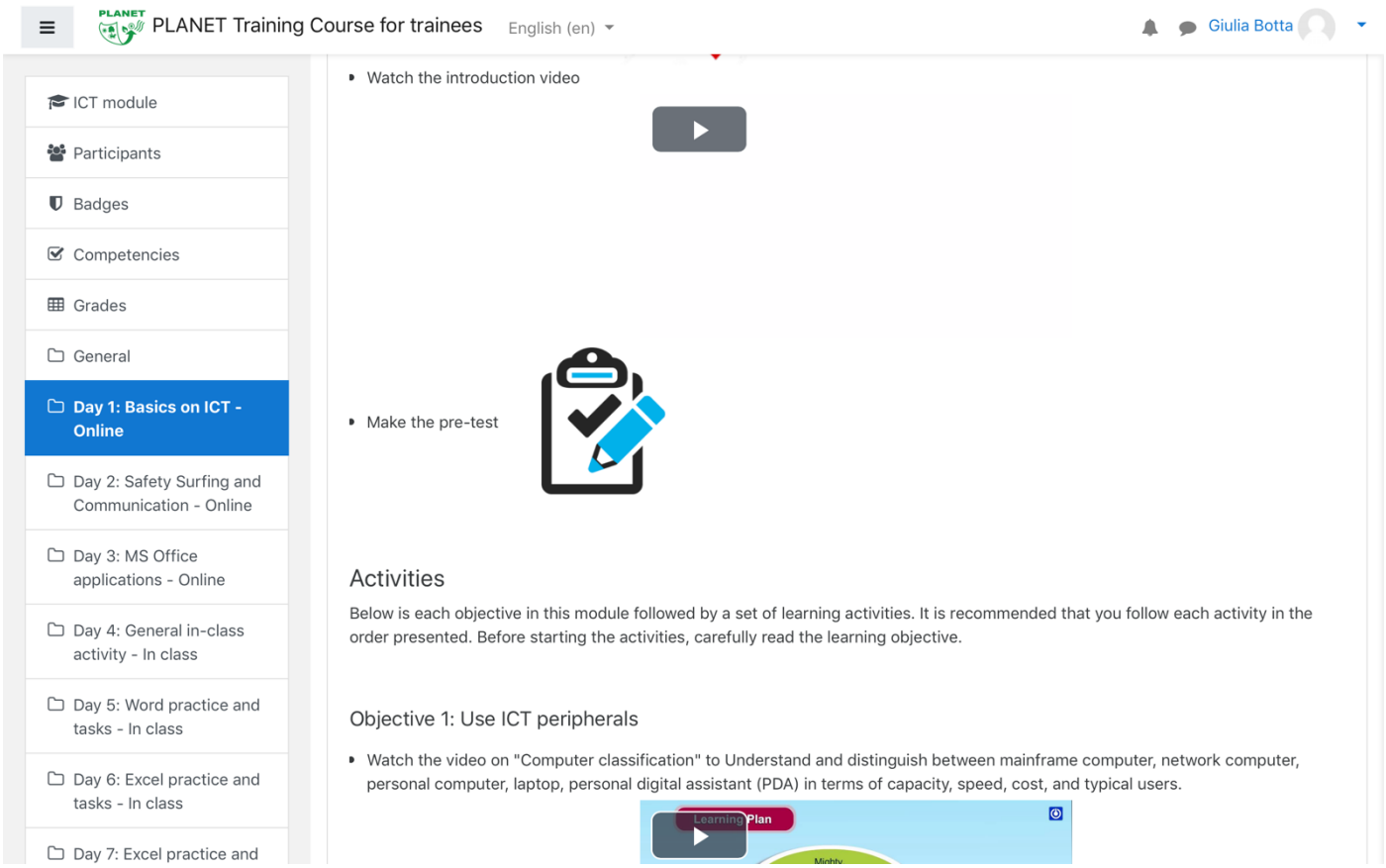

Figura 217

PLANET – PLan for Agriculture reNewable Energy Training

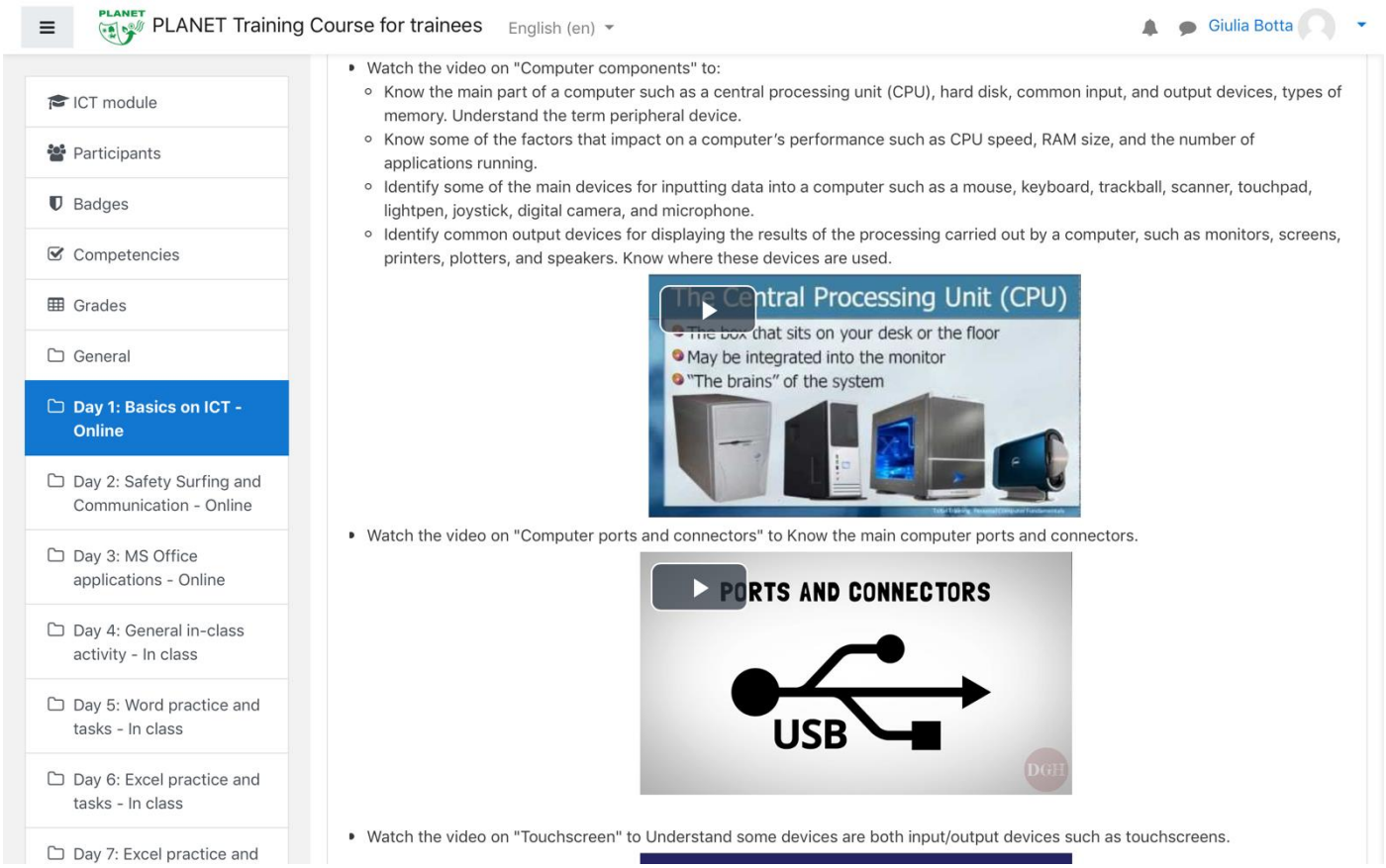

Figura 218

PLANET – PLan for Agriculture reNewable Energy Training

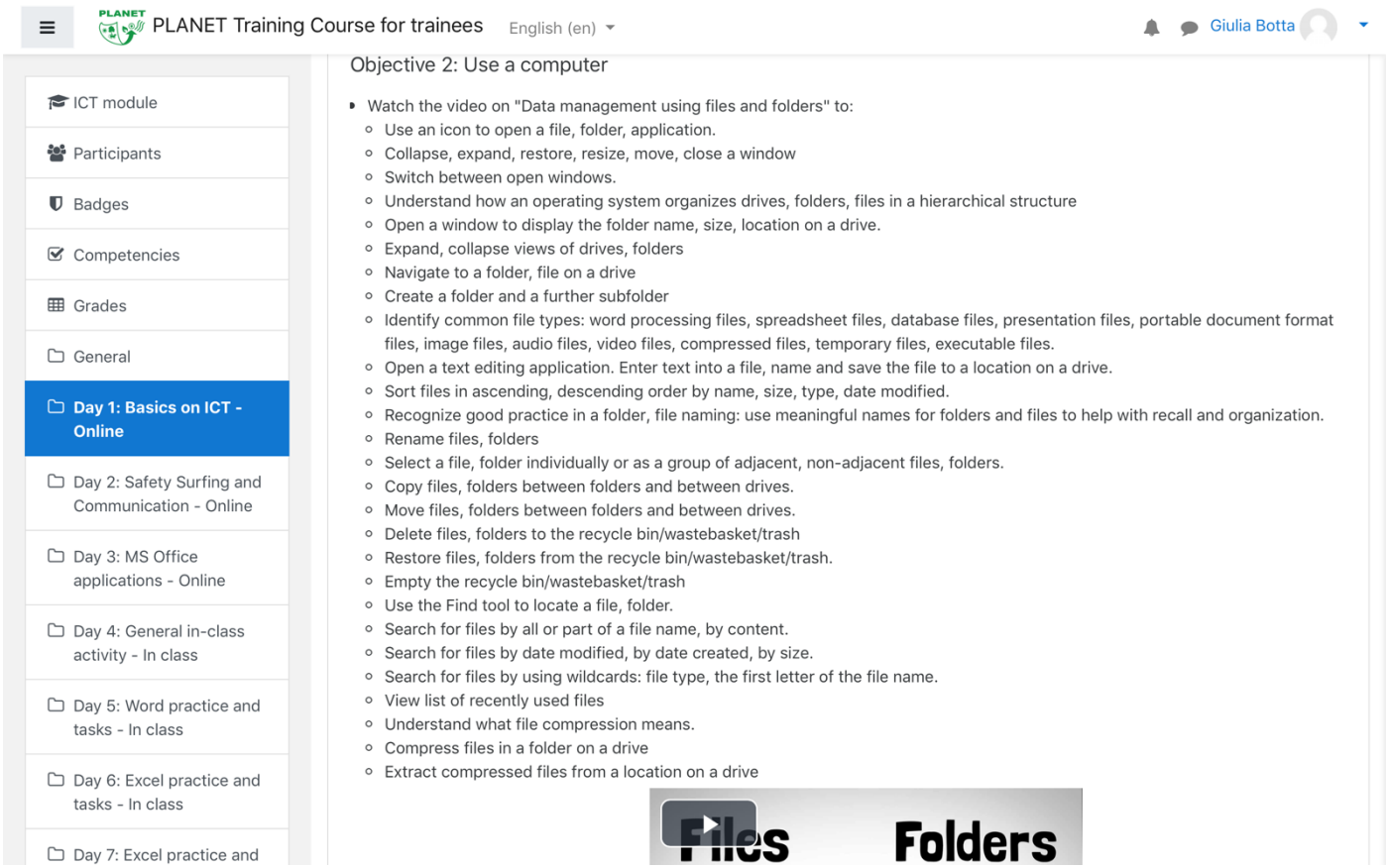

Figura 219

PLANET – PLan for Agriculture reNewable Energy Training

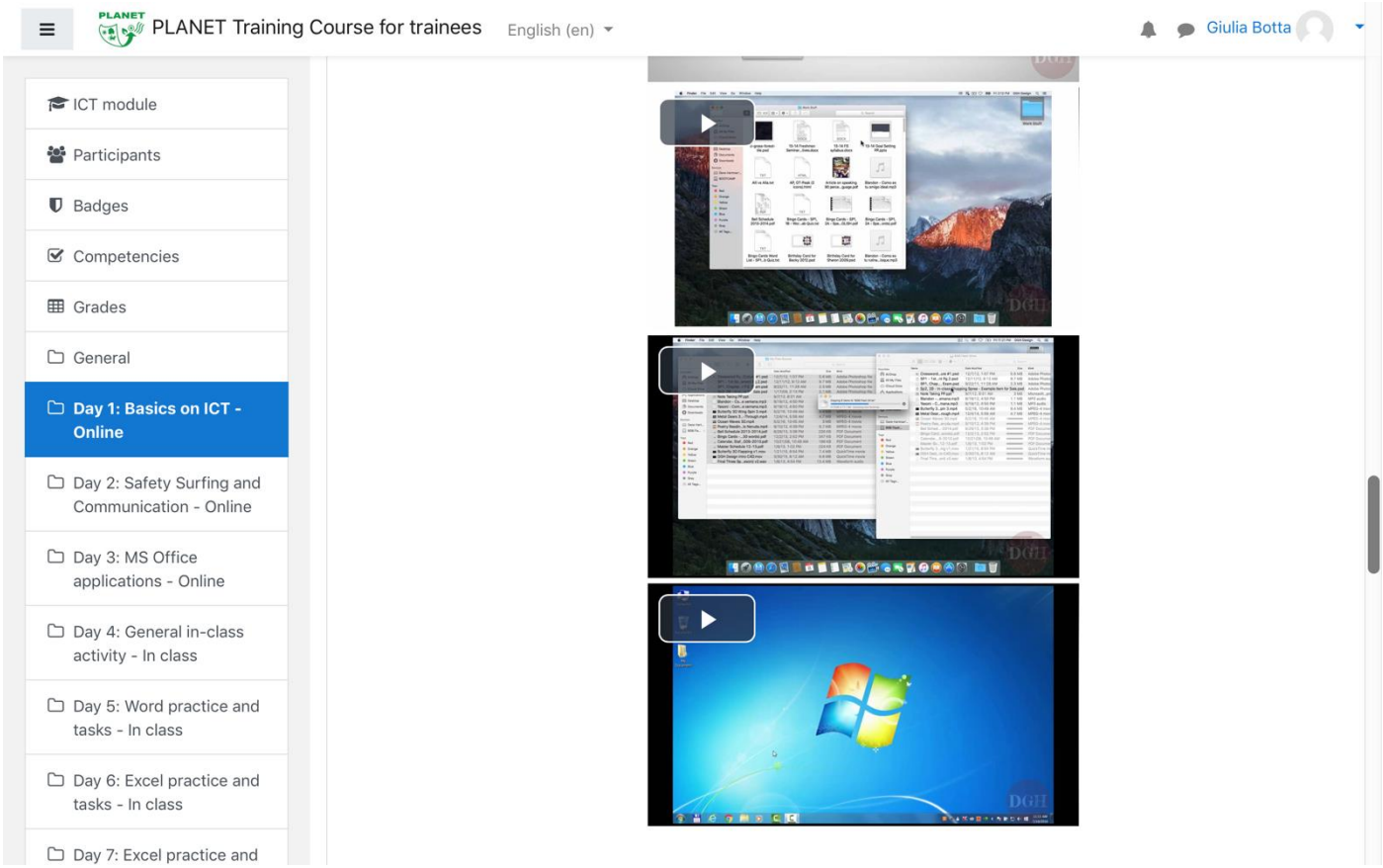

Figura 220

PLANET – PLan for Agriculture reNewable Energy Training

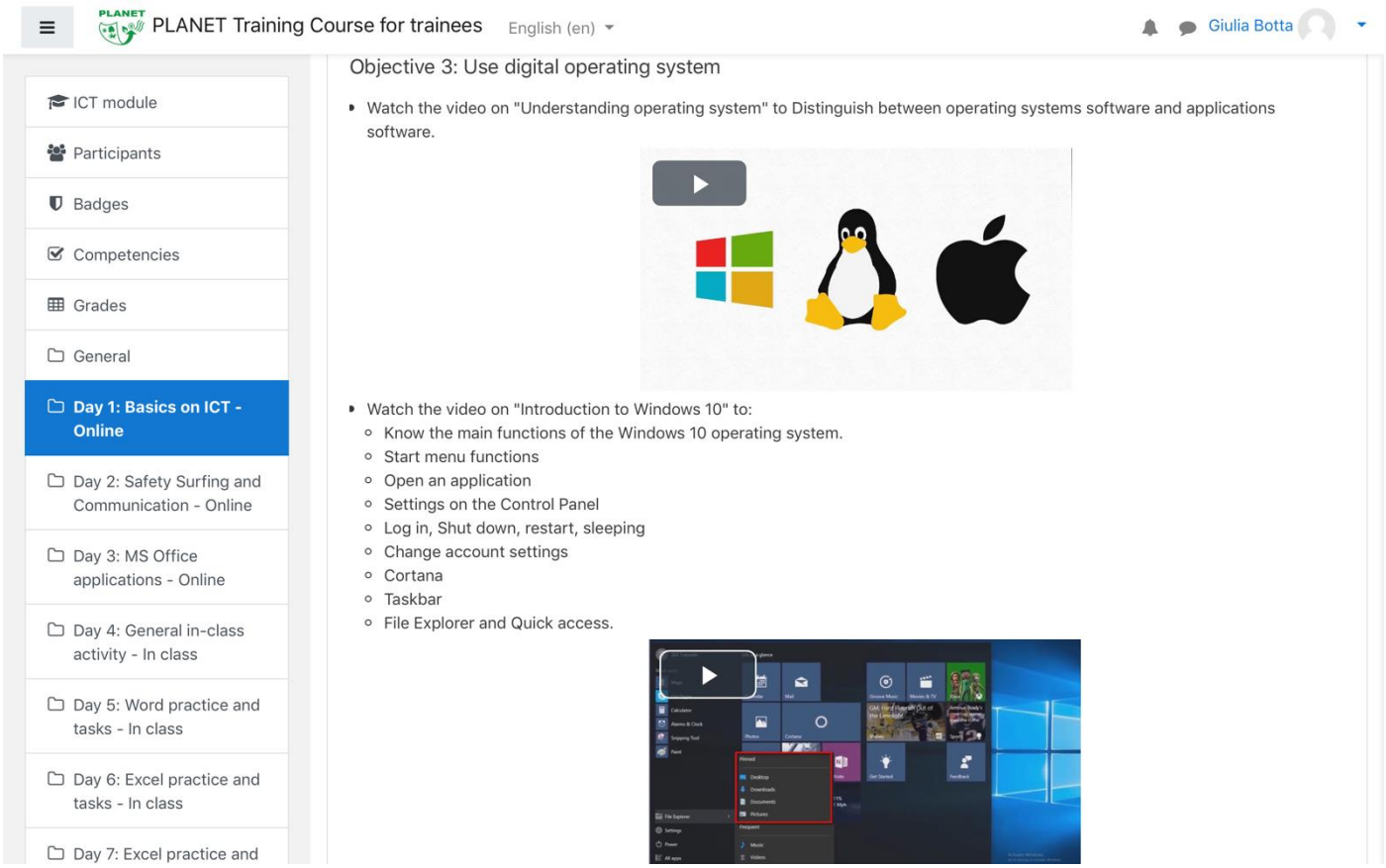

Figura 221

PLANET – PLan for Agriculture reNewable Energy Training

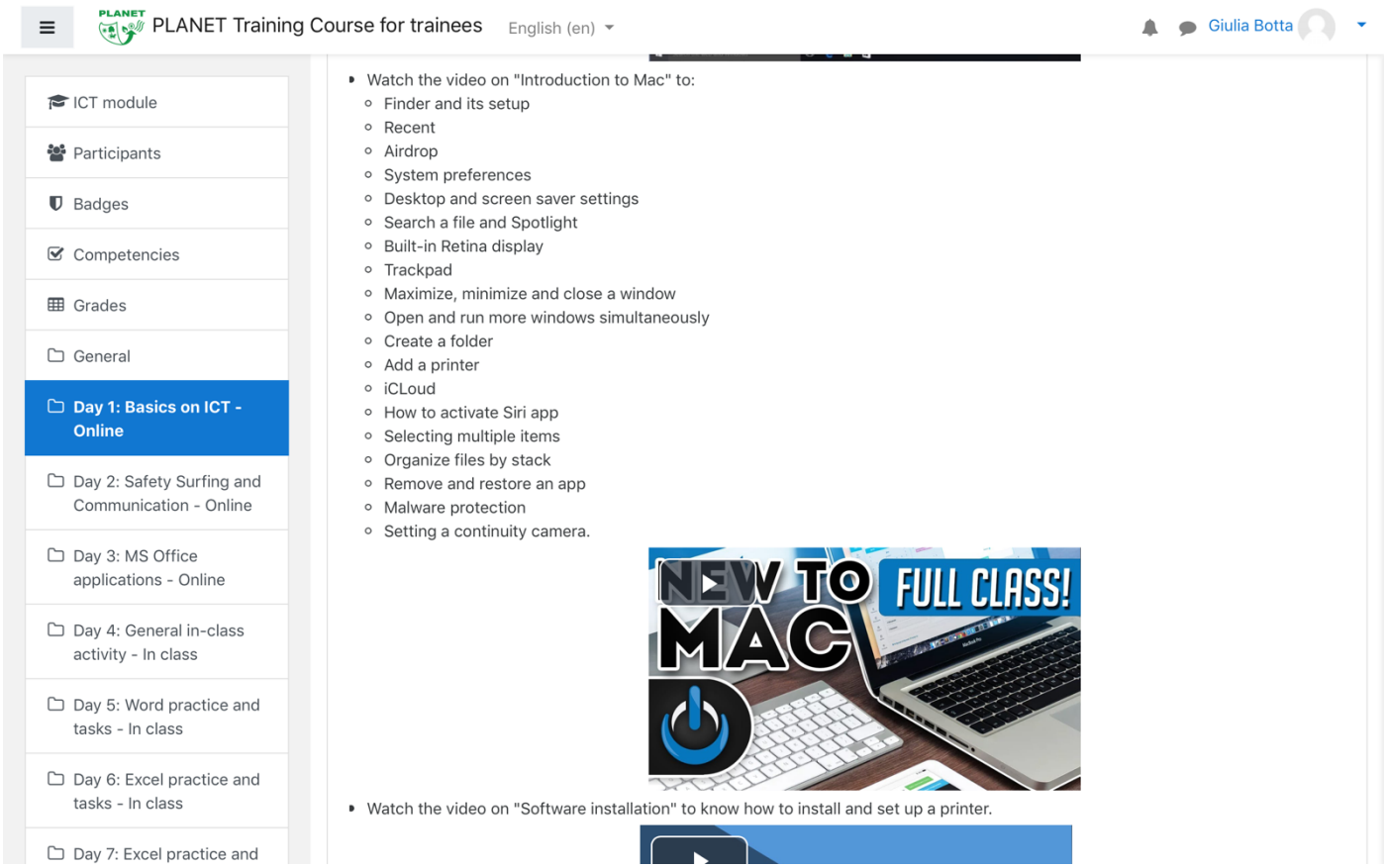

Figura 222

PLANET – PLan for Agriculture reNewable Energy Training

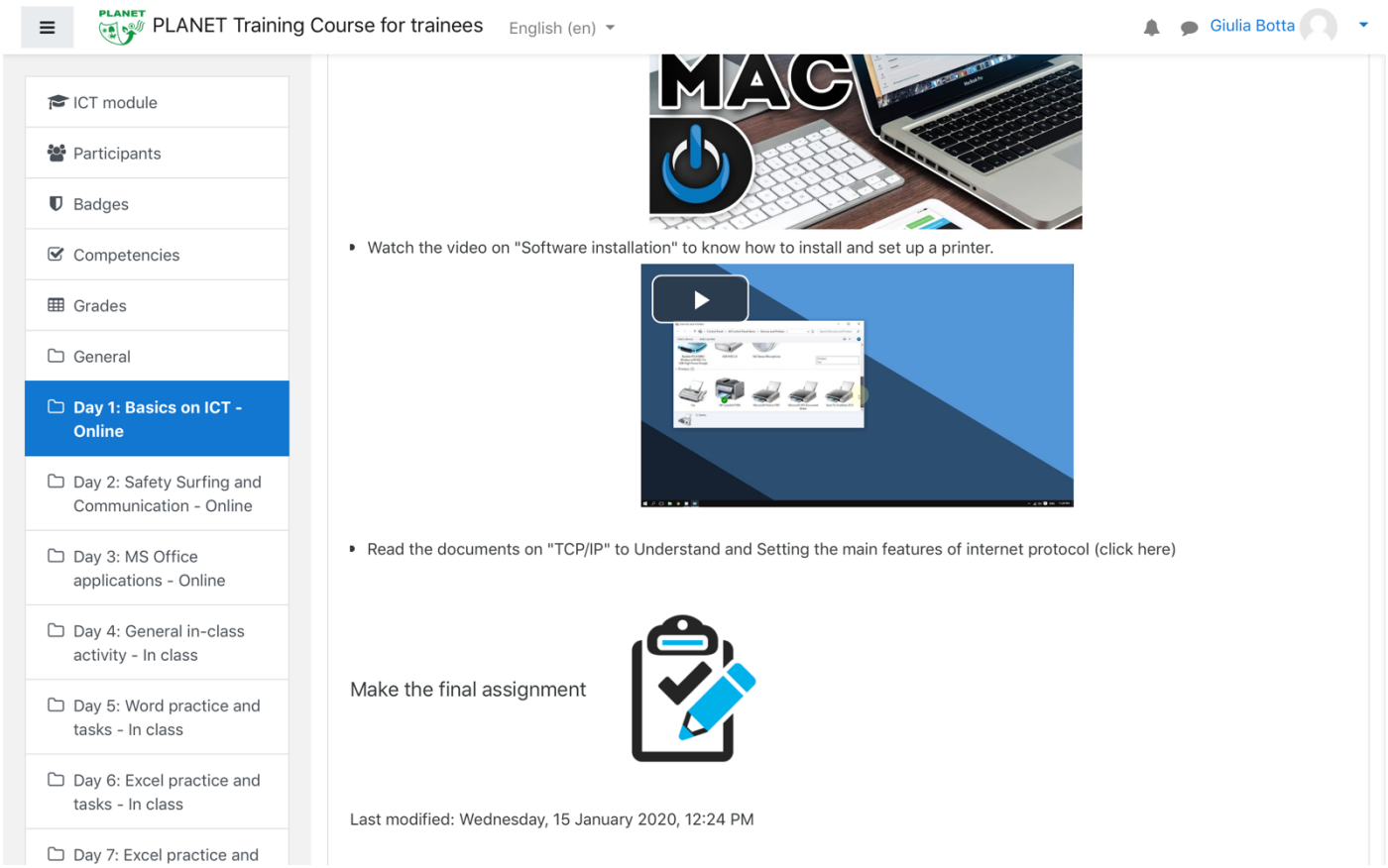

Figura 223

TWO:

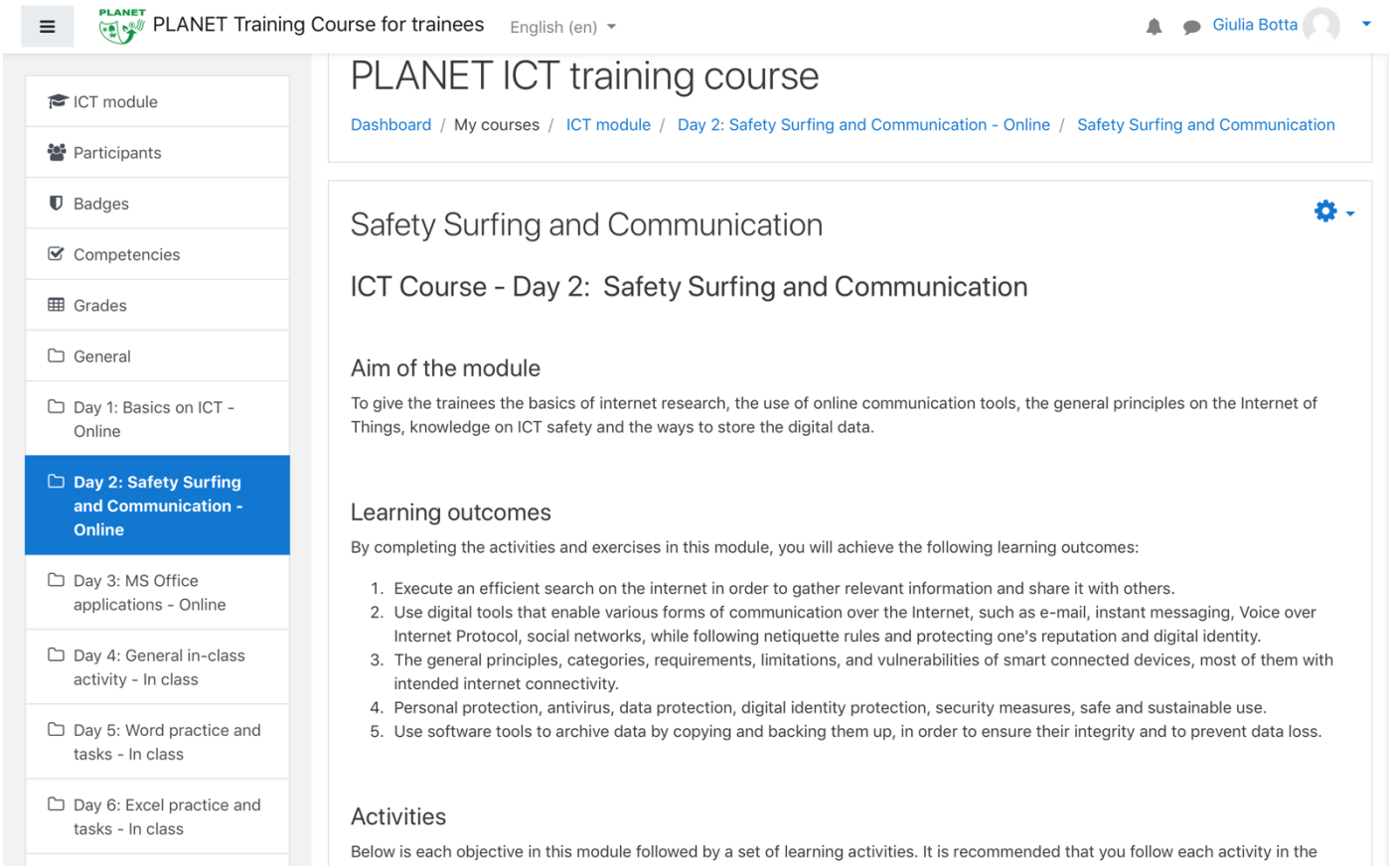

Figura 224

PLANET – PLan for Agriculture reNewable Energy Training

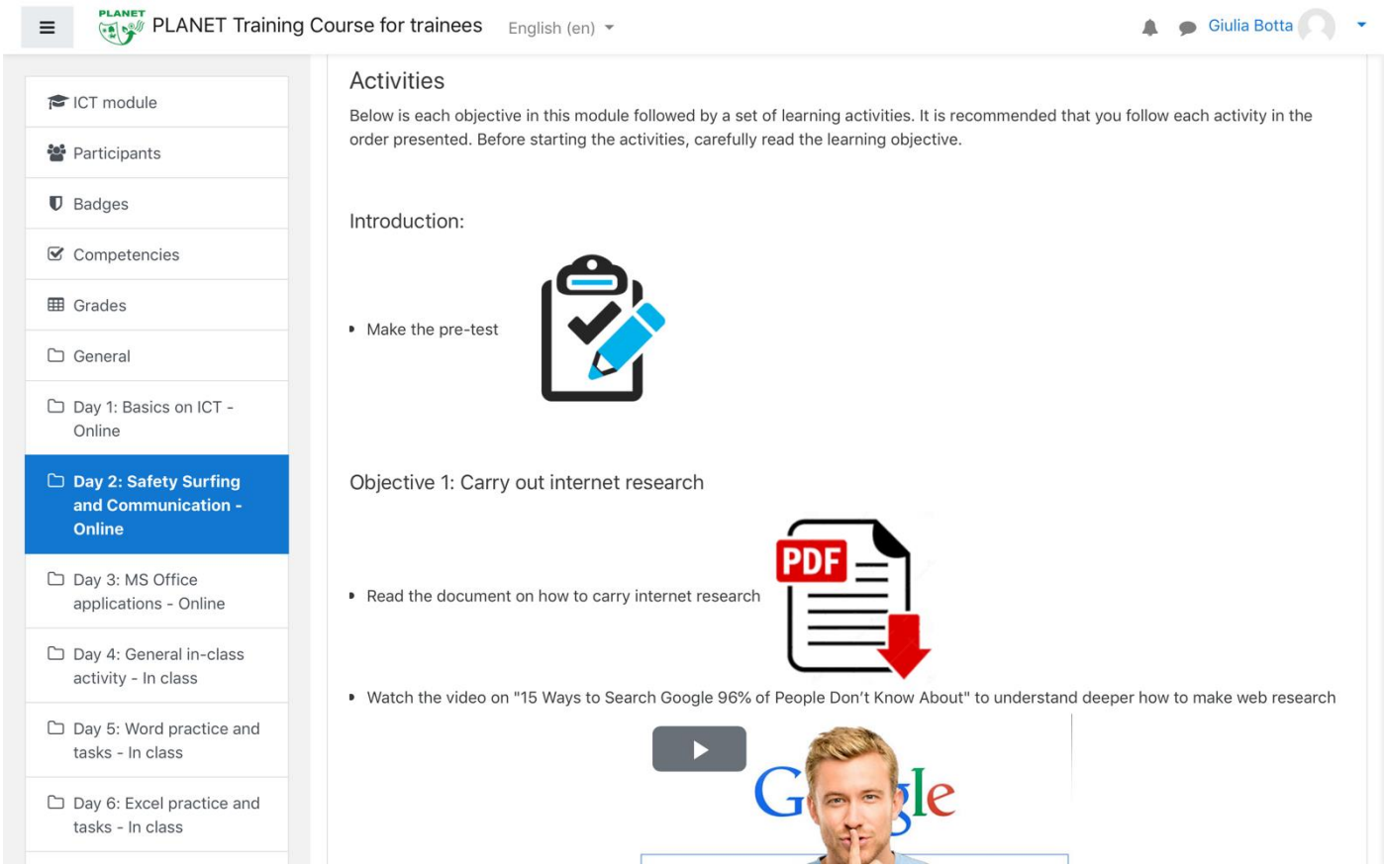

Figura 225

PLANET – PLan for Agriculture reNewable Energy Training

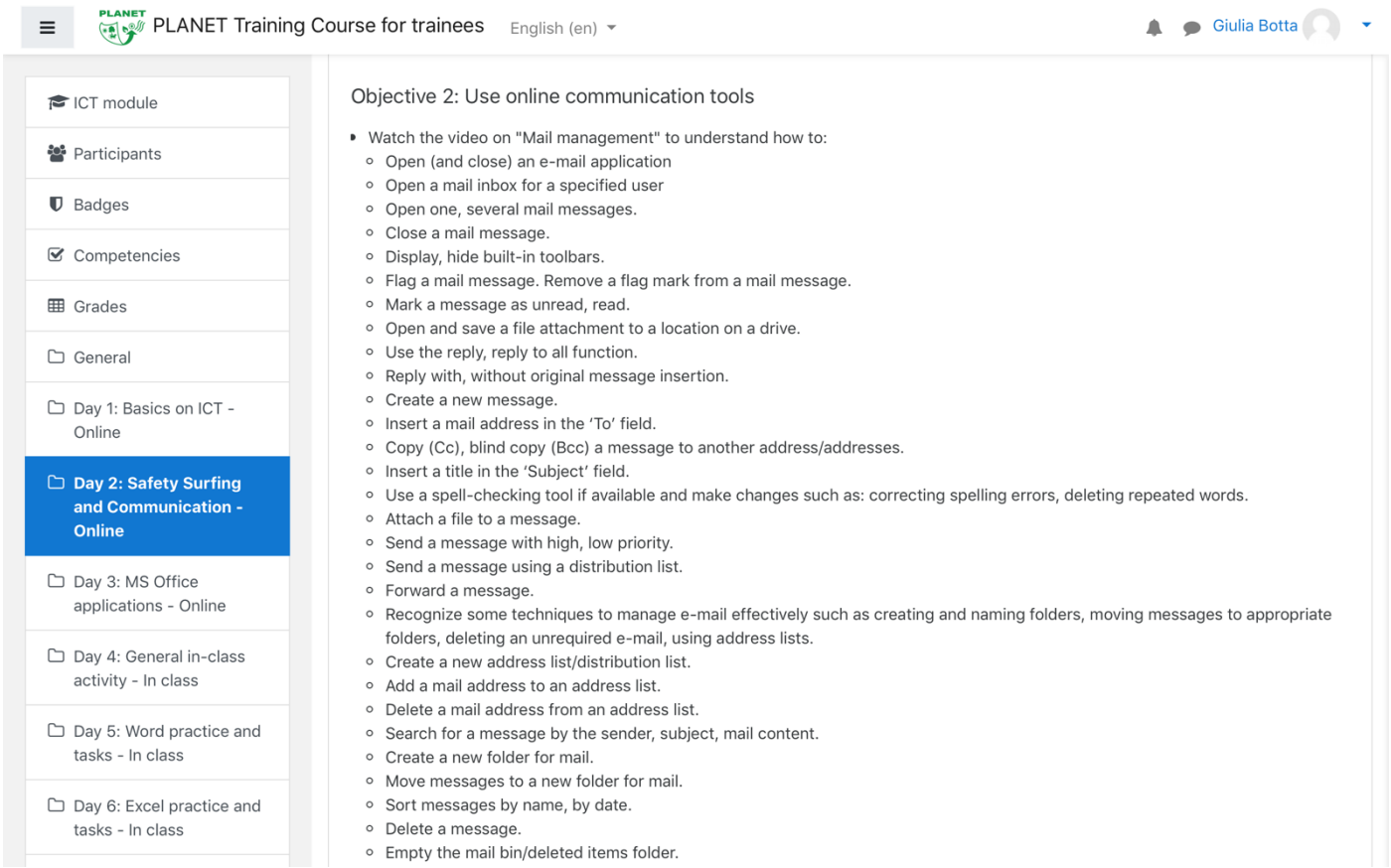

Figura 226

PLANET – PLan for Agriculture reNewable Energy Training

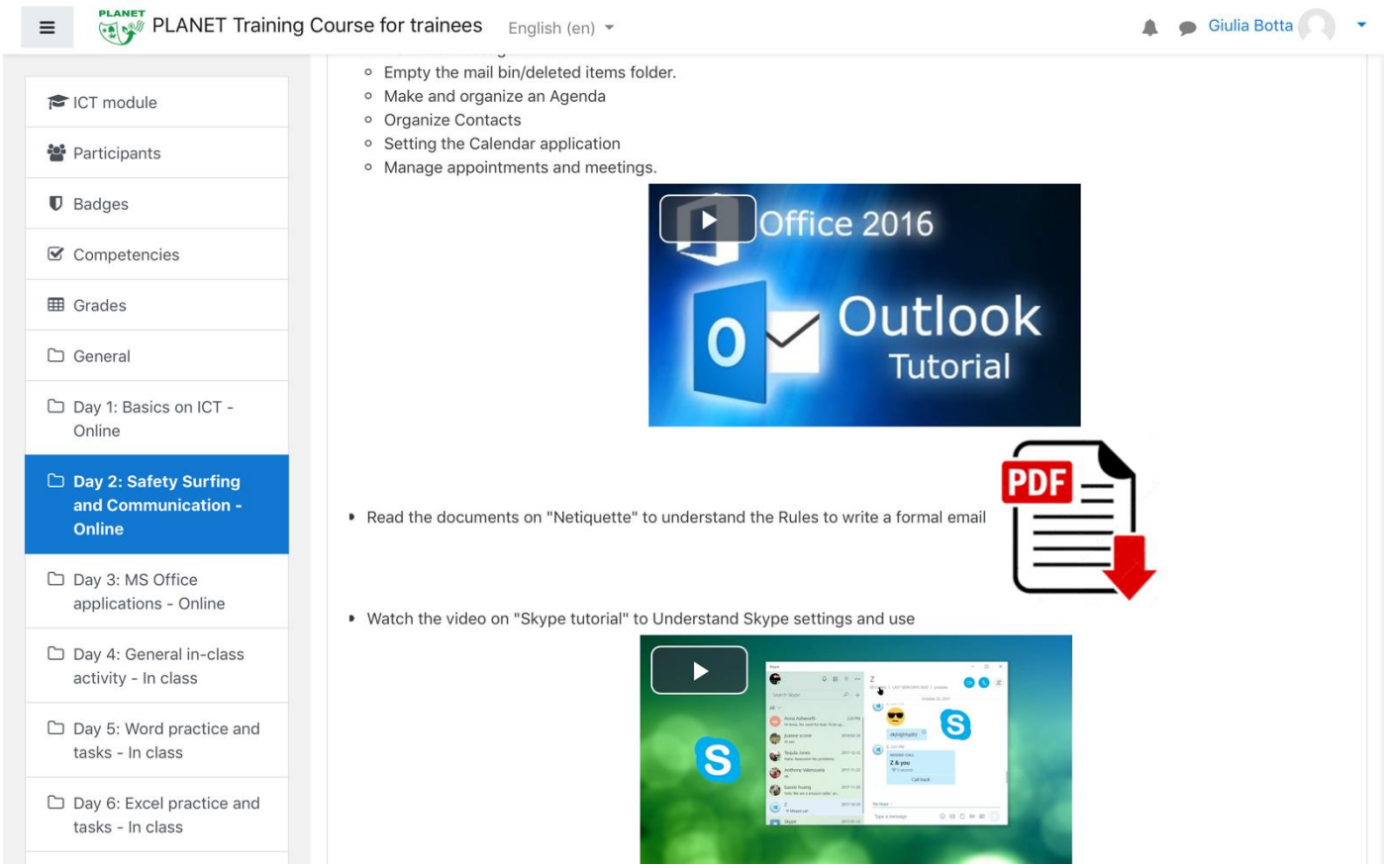

Figura 227

PLANET – PLan for Agriculture reNewable Energy Training

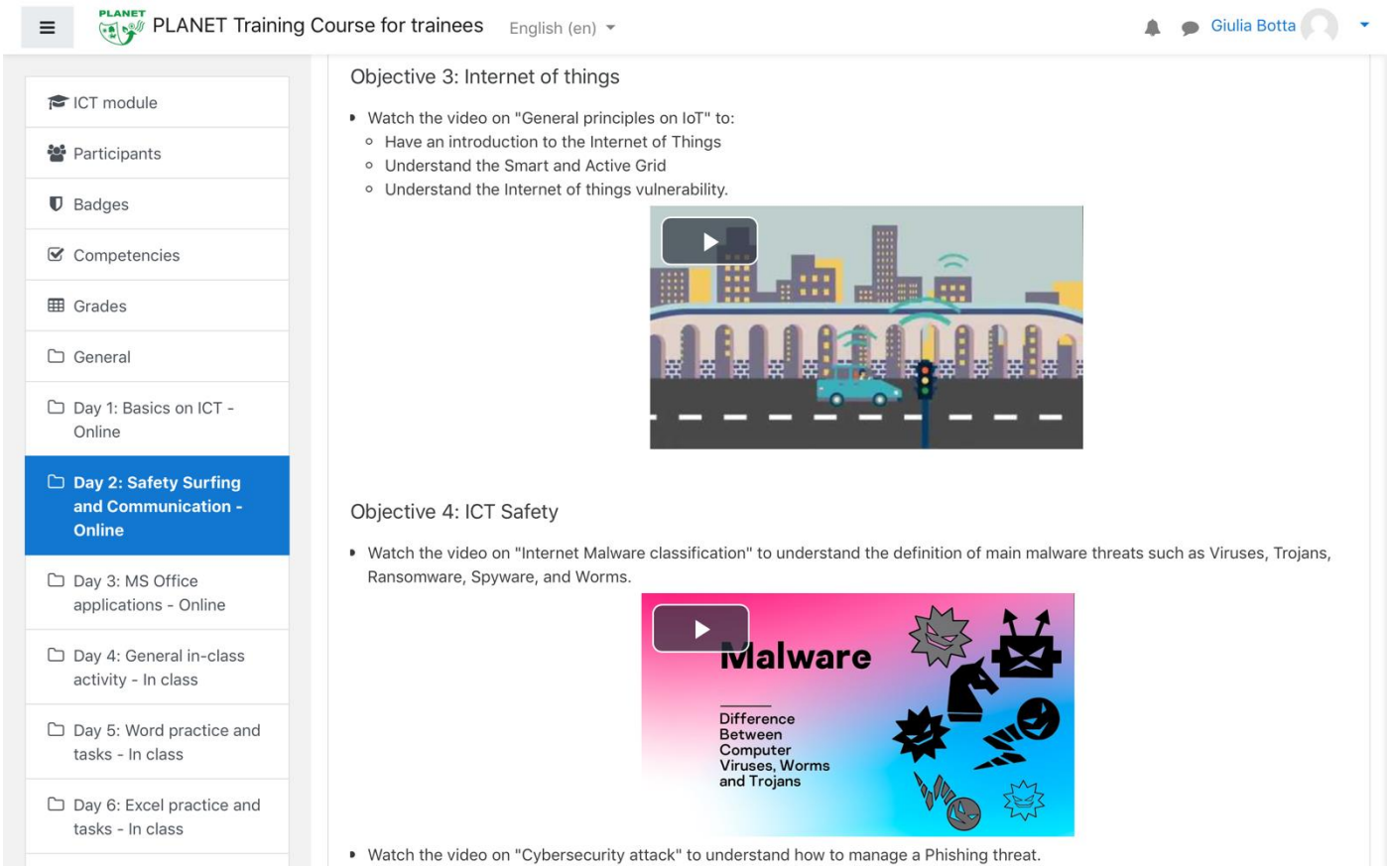

Figura 228

PLANET – PLan for Agriculture reNewable Energy Training

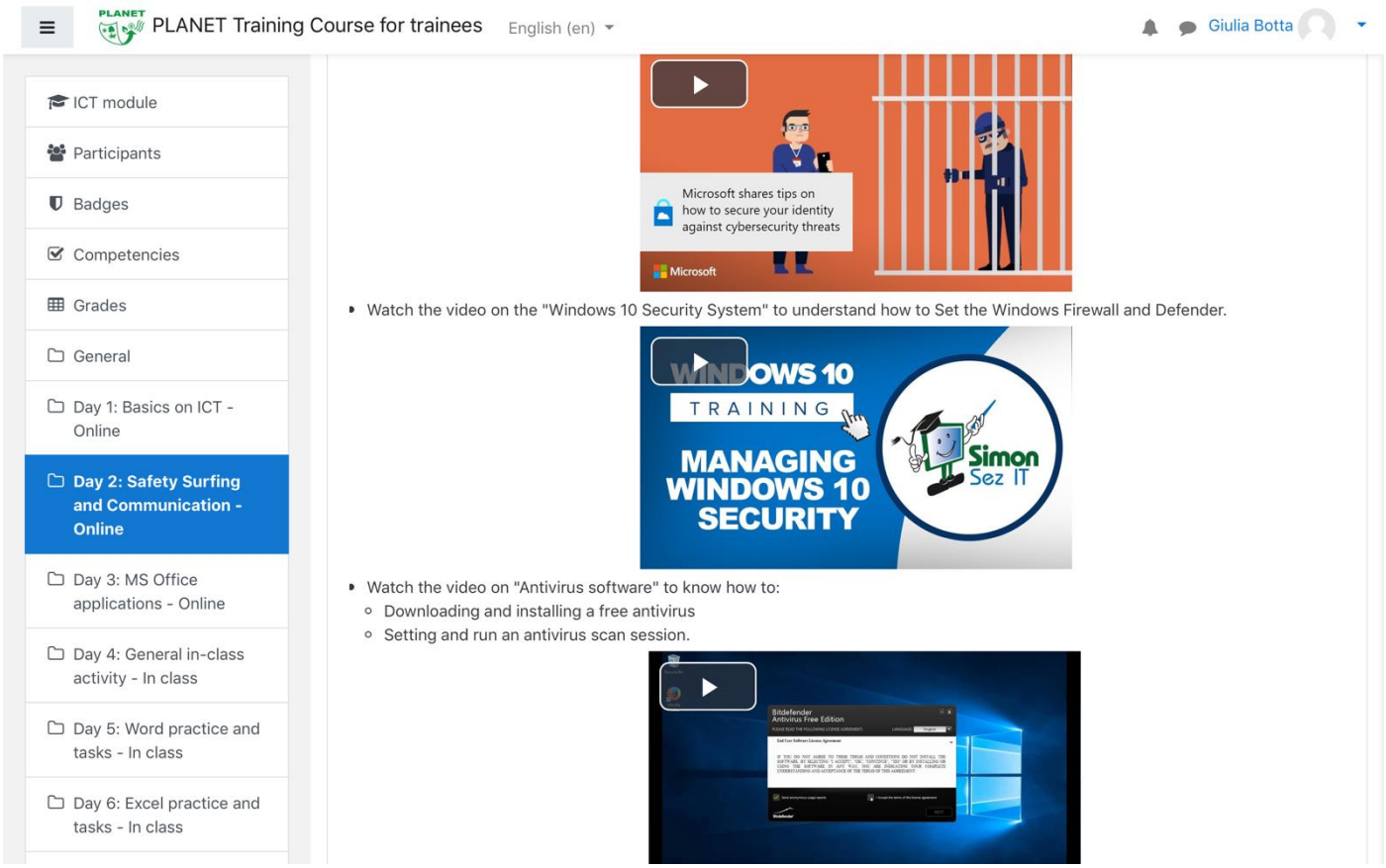

Figura 229

PLANET – PLan for Agriculture reNewable Energy Training

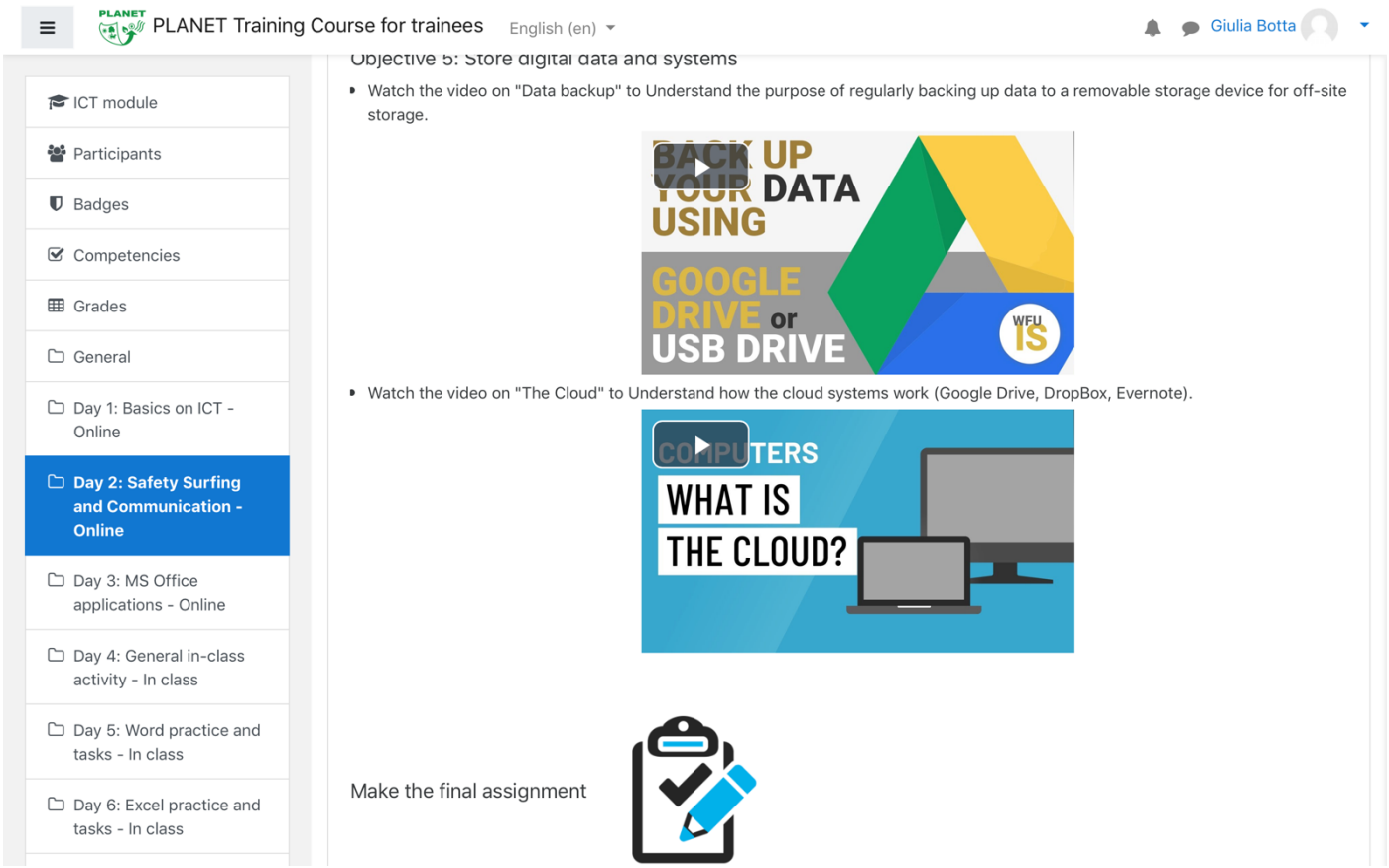

Figura 230

THREE:

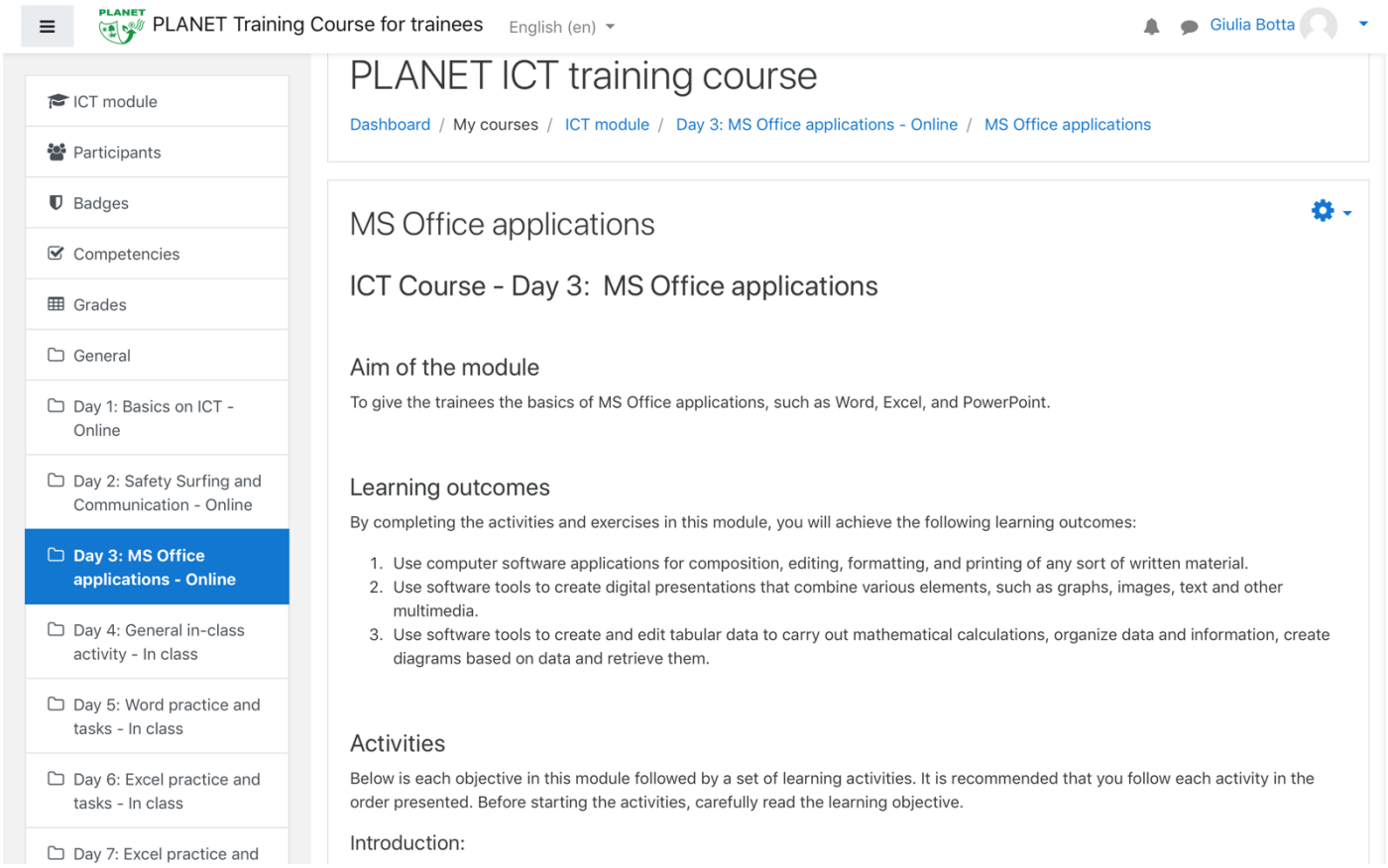

Figura 231

PLANET – PLan for Agriculture reNewable Energy Training

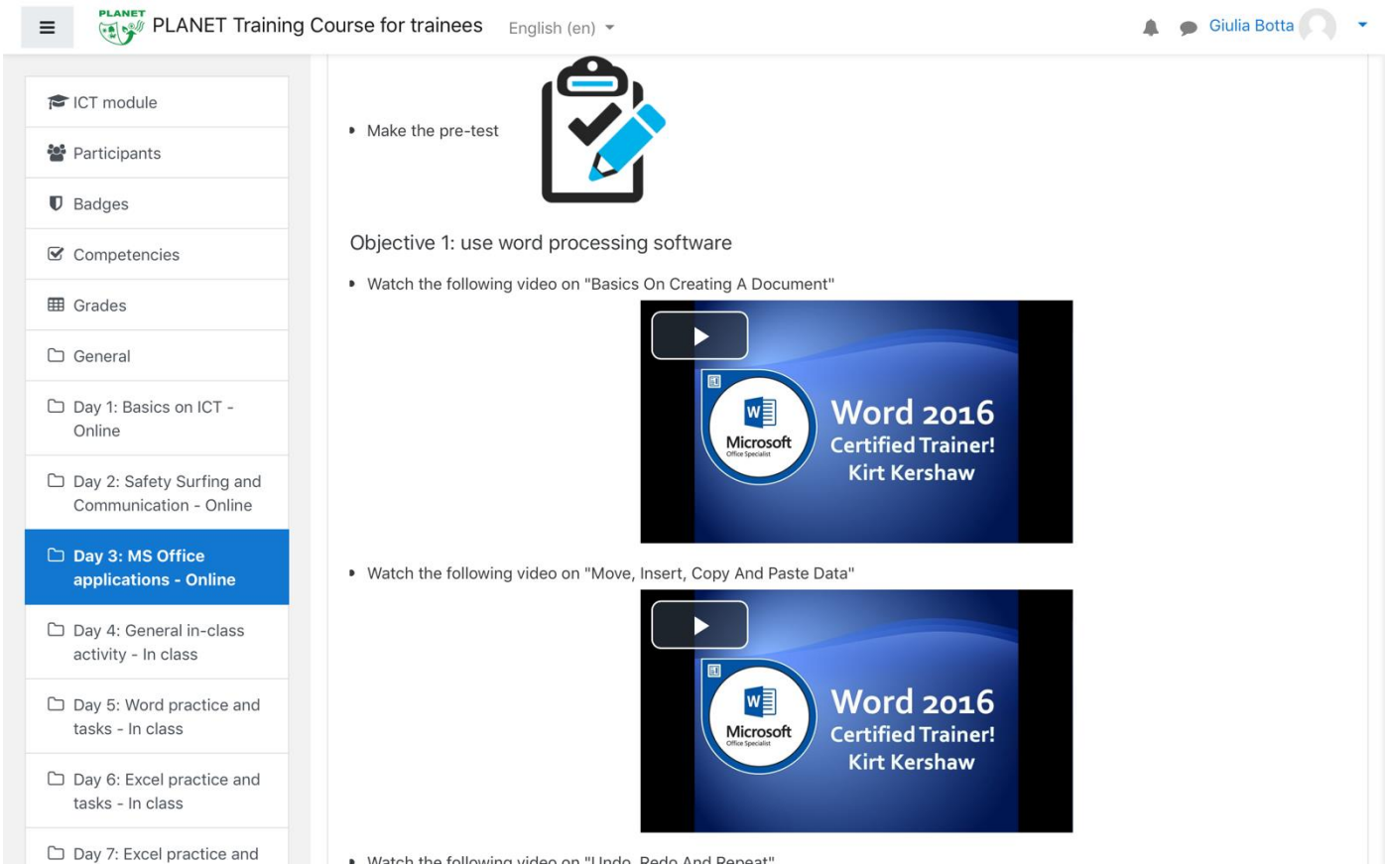

Figura 232

PLANET – PLan for Agriculture reNewable Energy Training

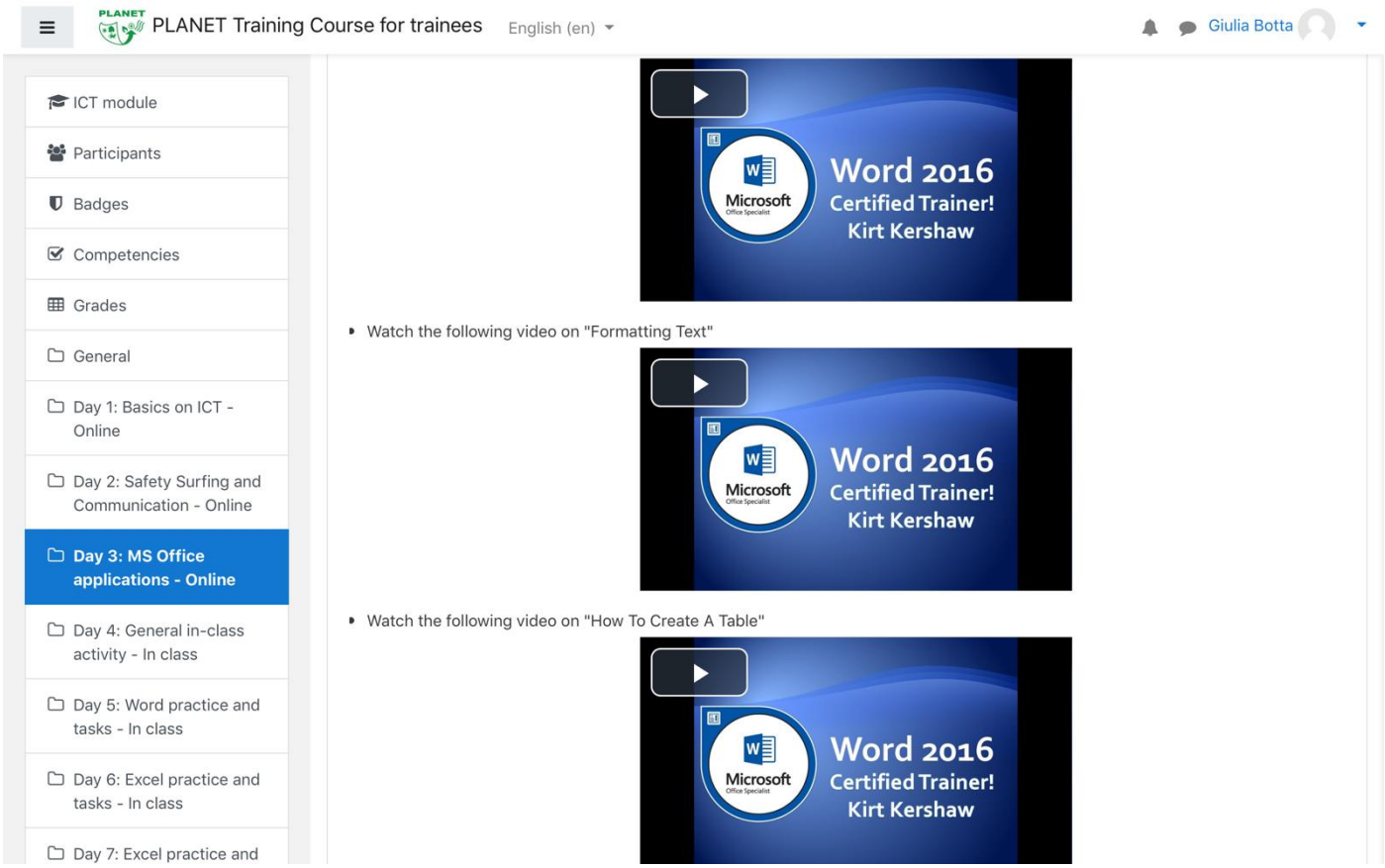

Figura 233

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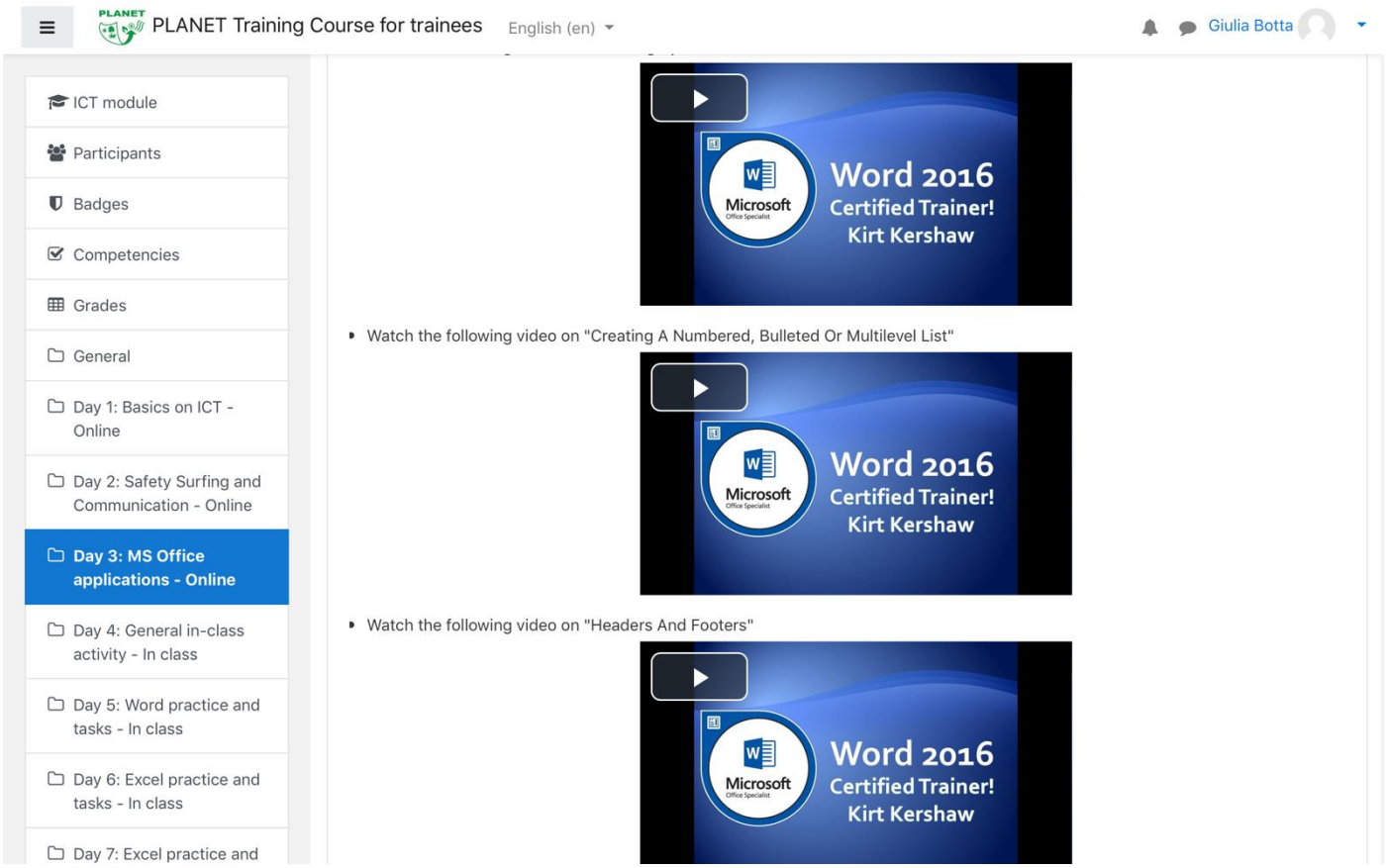

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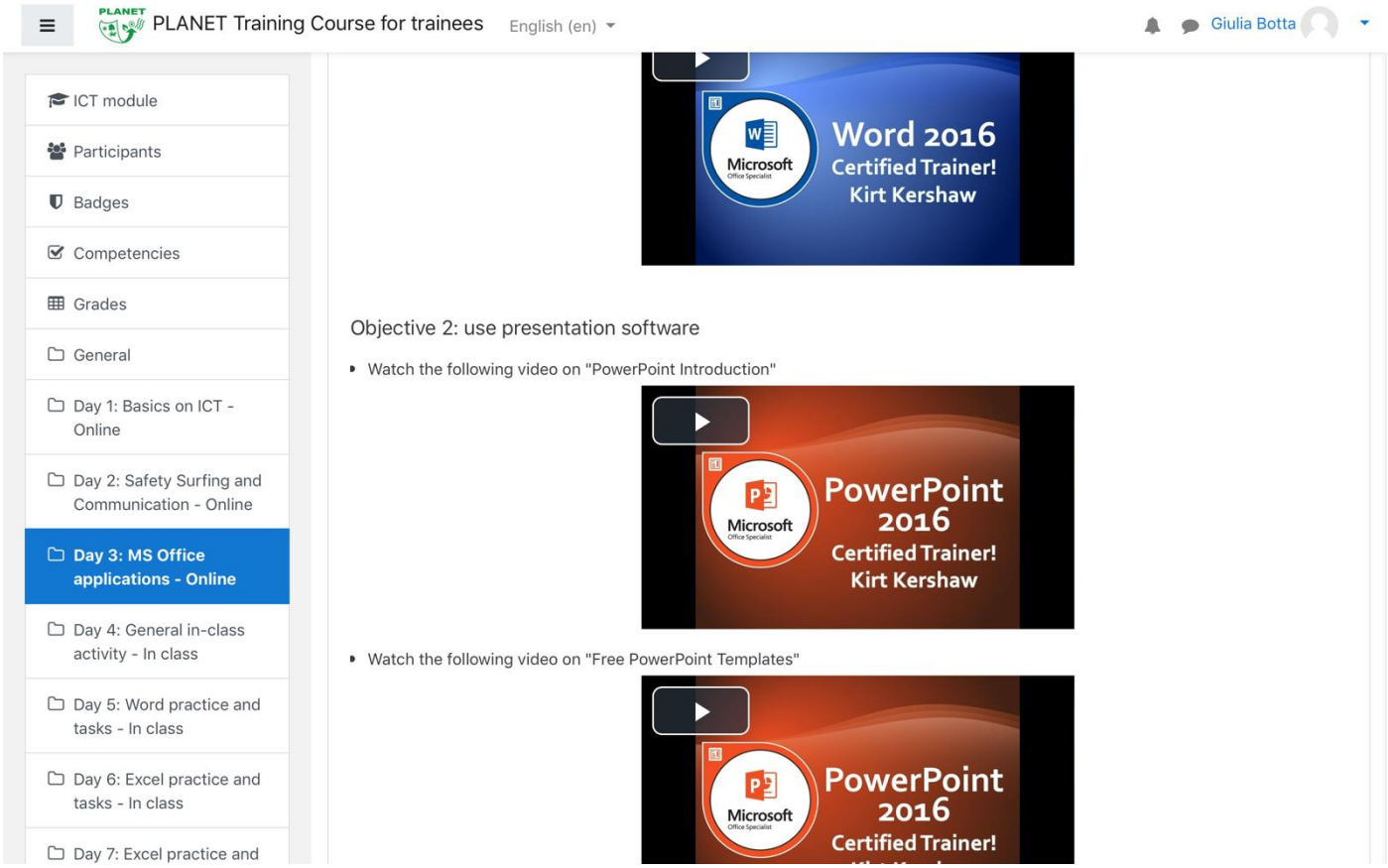

Figura 235

PLANET – PLan for Agriculture reNewable Energy Training

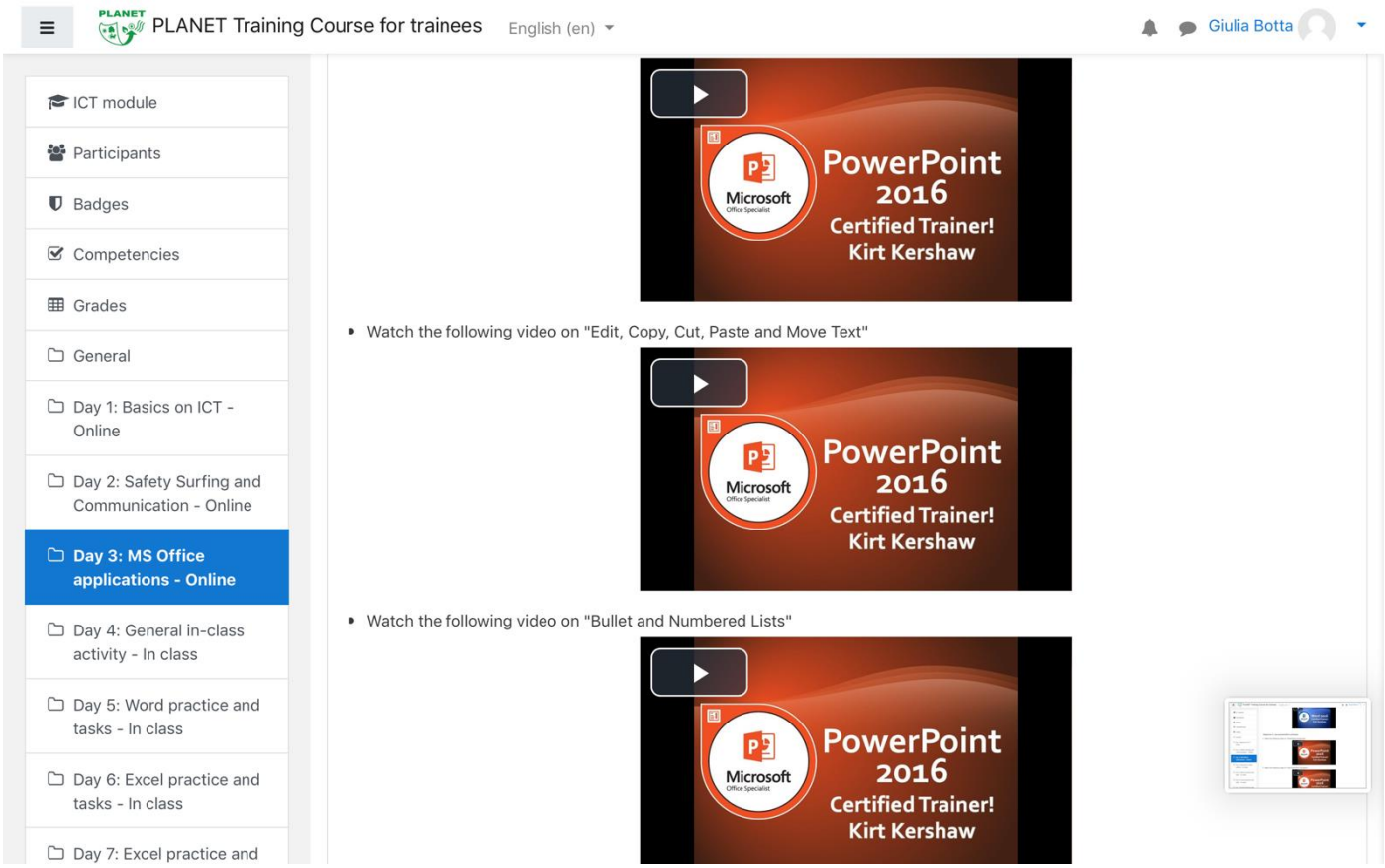

Figura 236

PLANET – PLan for Agriculture reNewable Energy Training

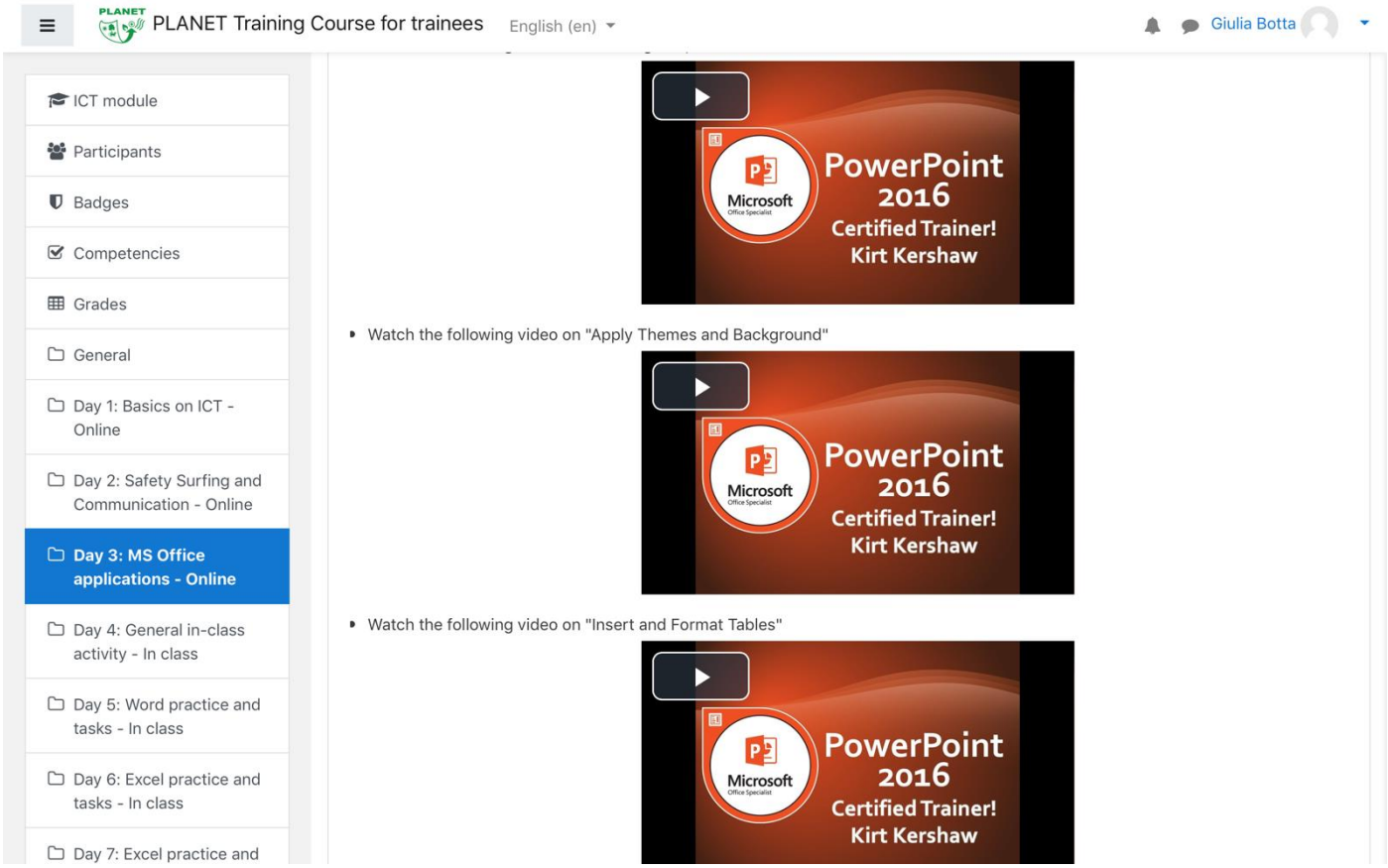

Figura 237

PLANET – PLan for Agriculture reNewable Energy Training

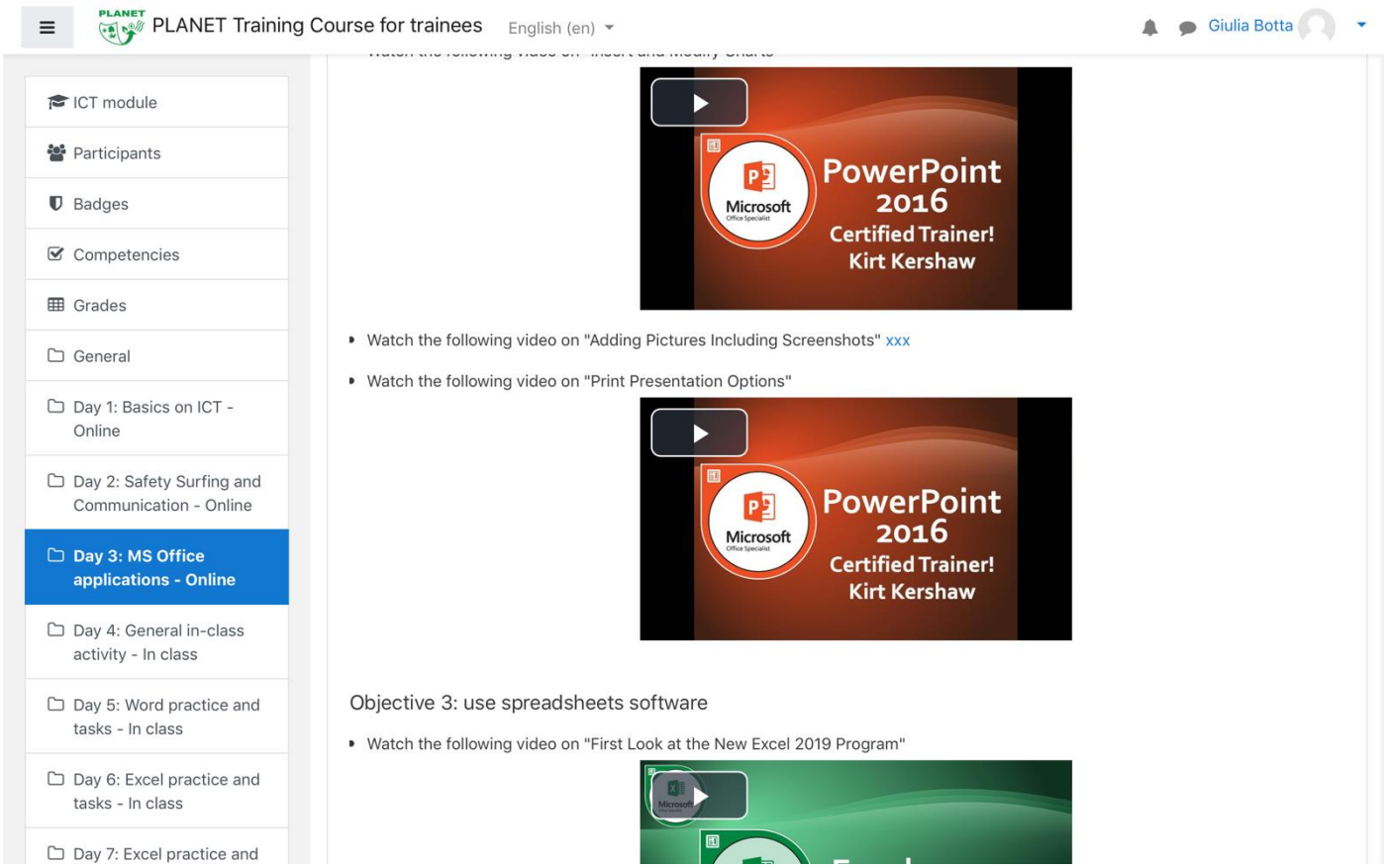

Figura 238

PLANET – PLan for Agriculture reNewable Energy Training

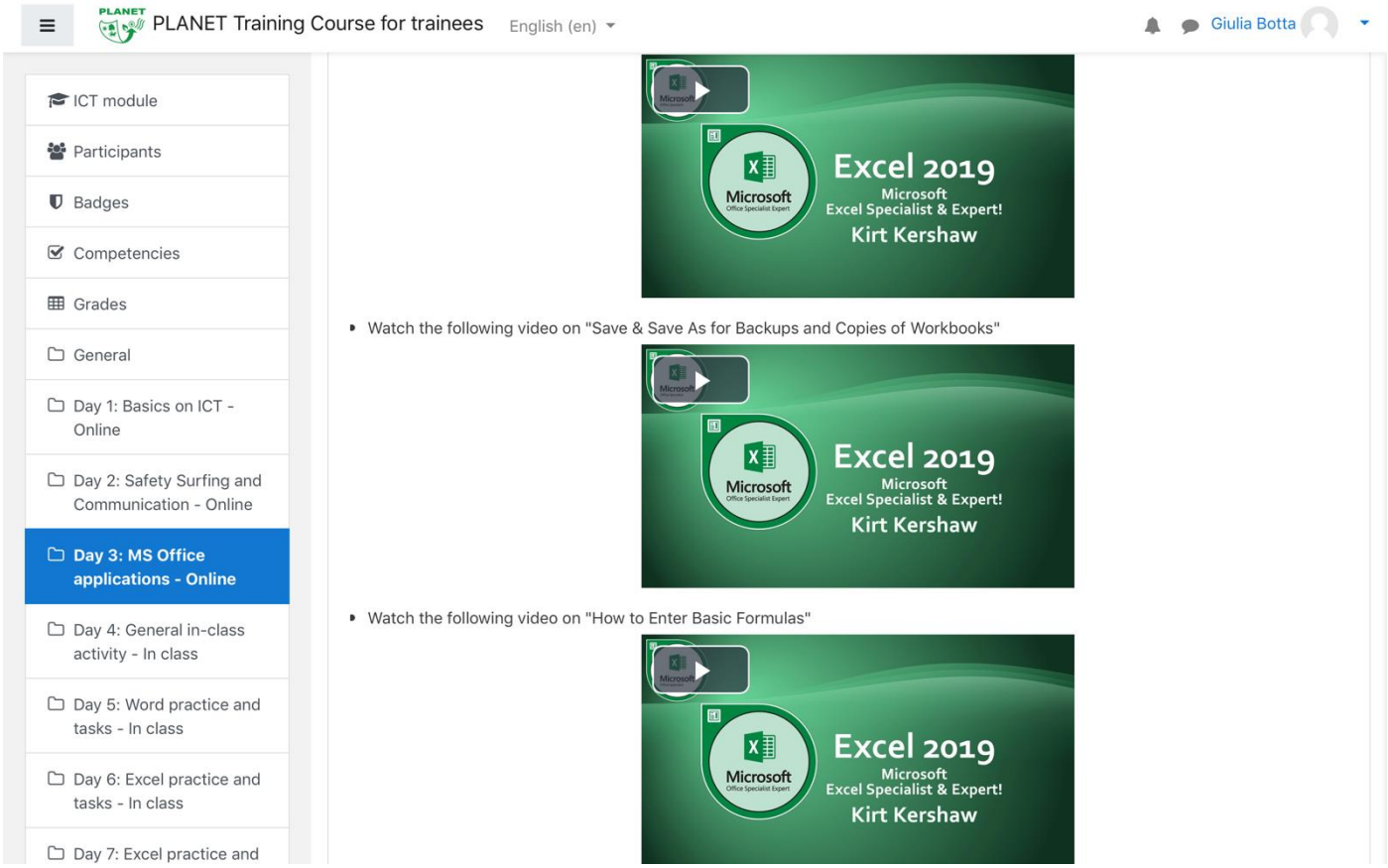

Figura 239

PLANET – PLan for Agriculture reNewable Energy Training

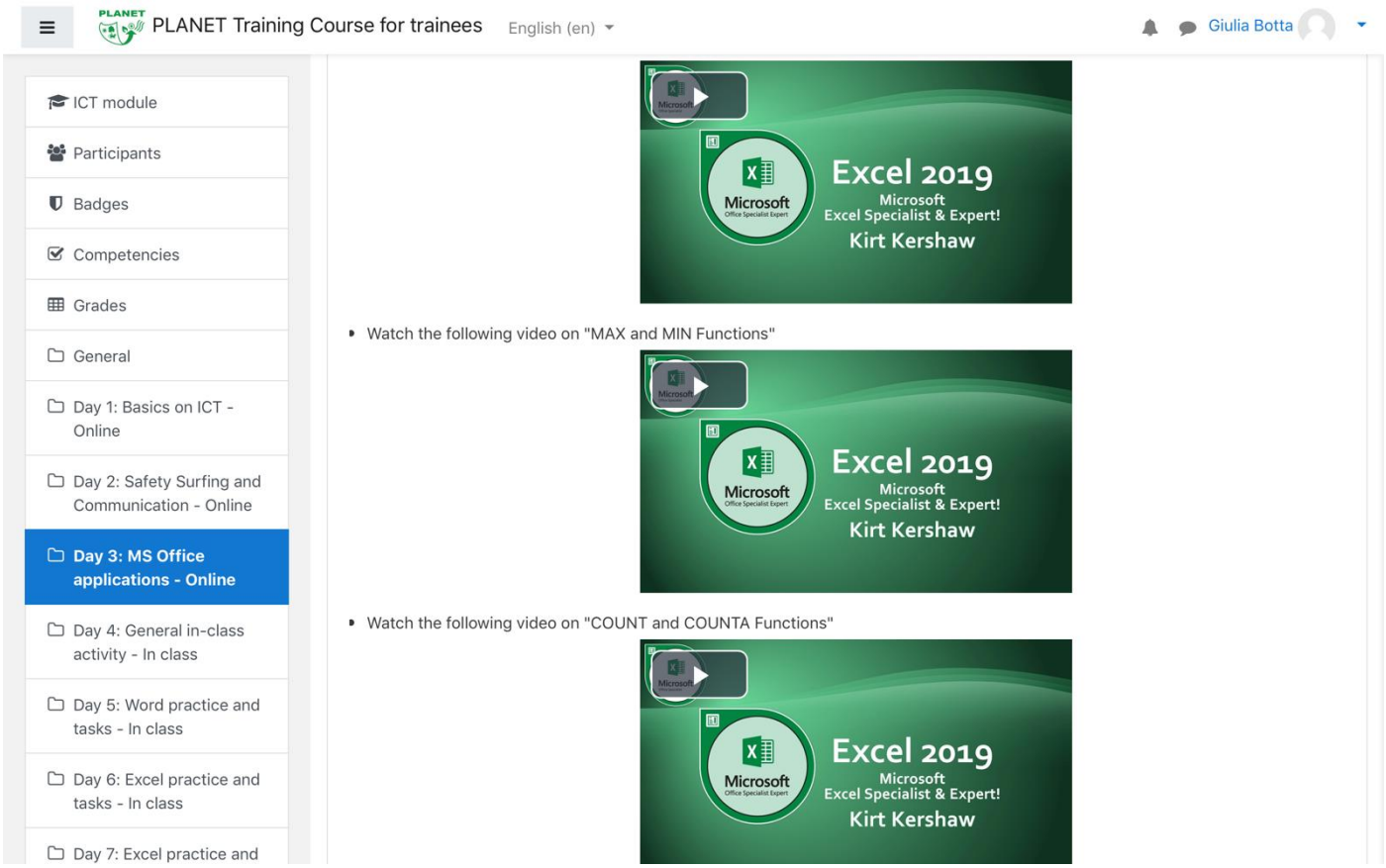

Figura 240

PLANET – PLan for Agriculture reNewable Energy Training

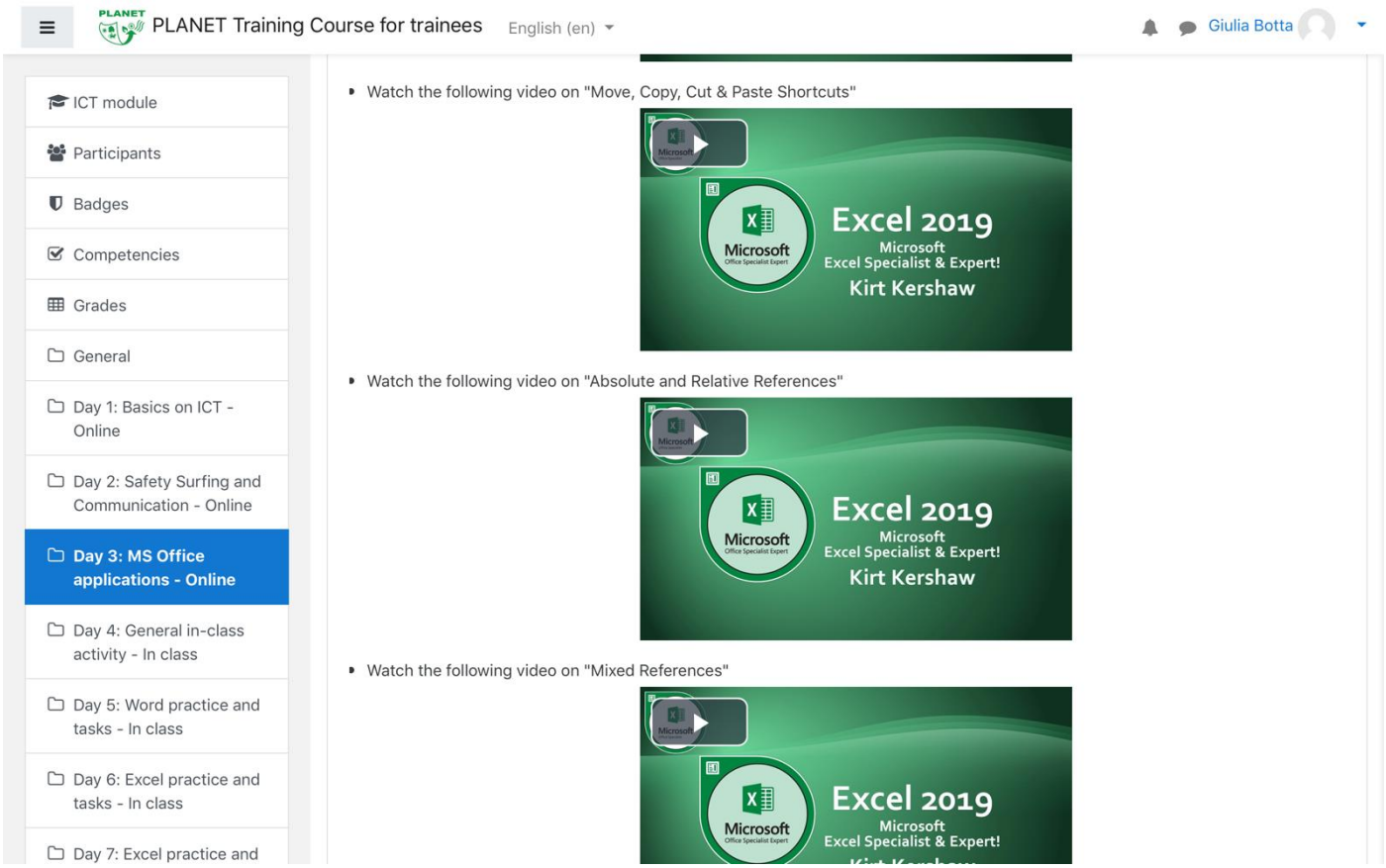

Figura 241

PLANET – PLan for Agriculture reNewable Energy Training

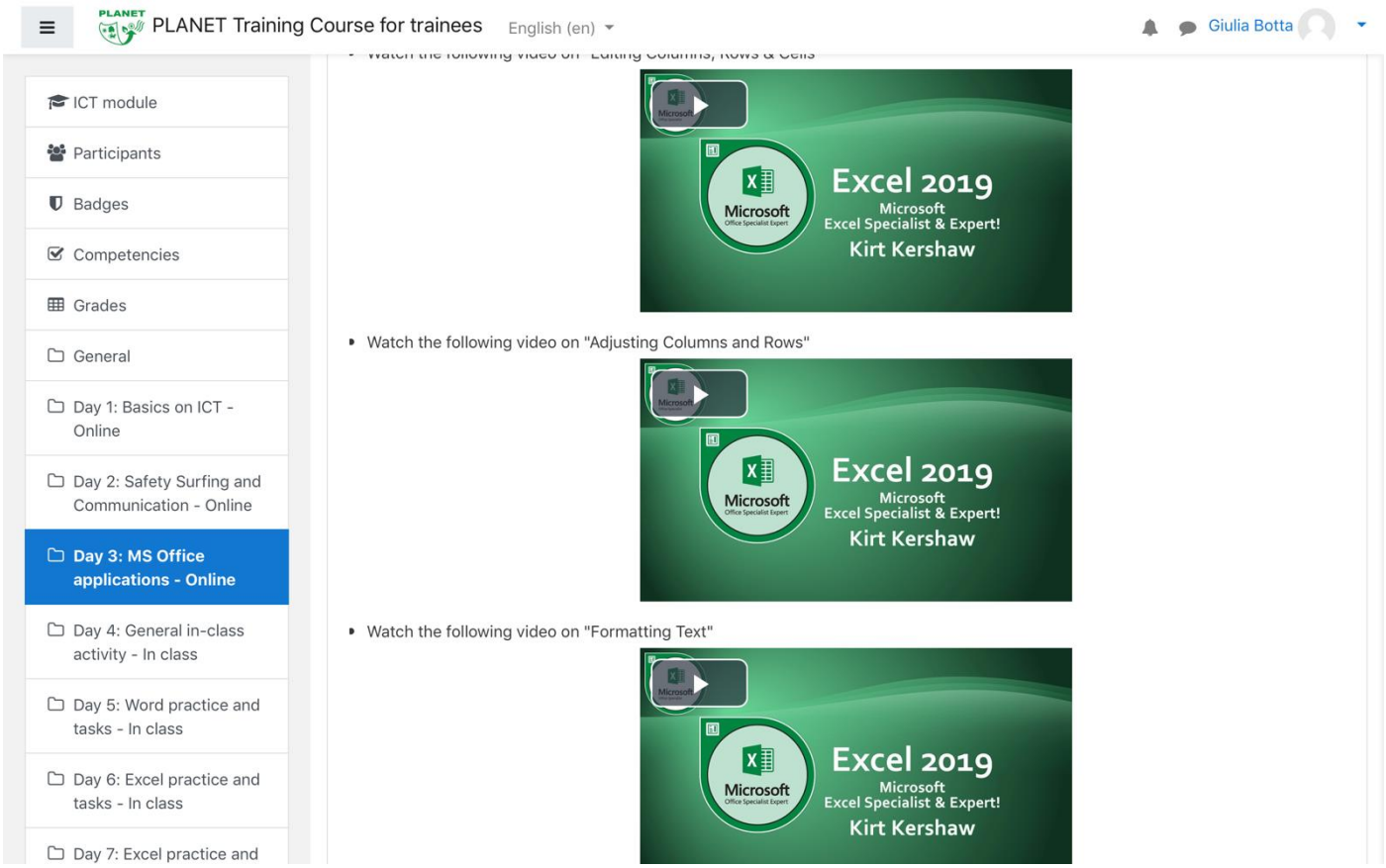

Figura 242

PLANET – PLan for Agriculture reNewable Energy Training

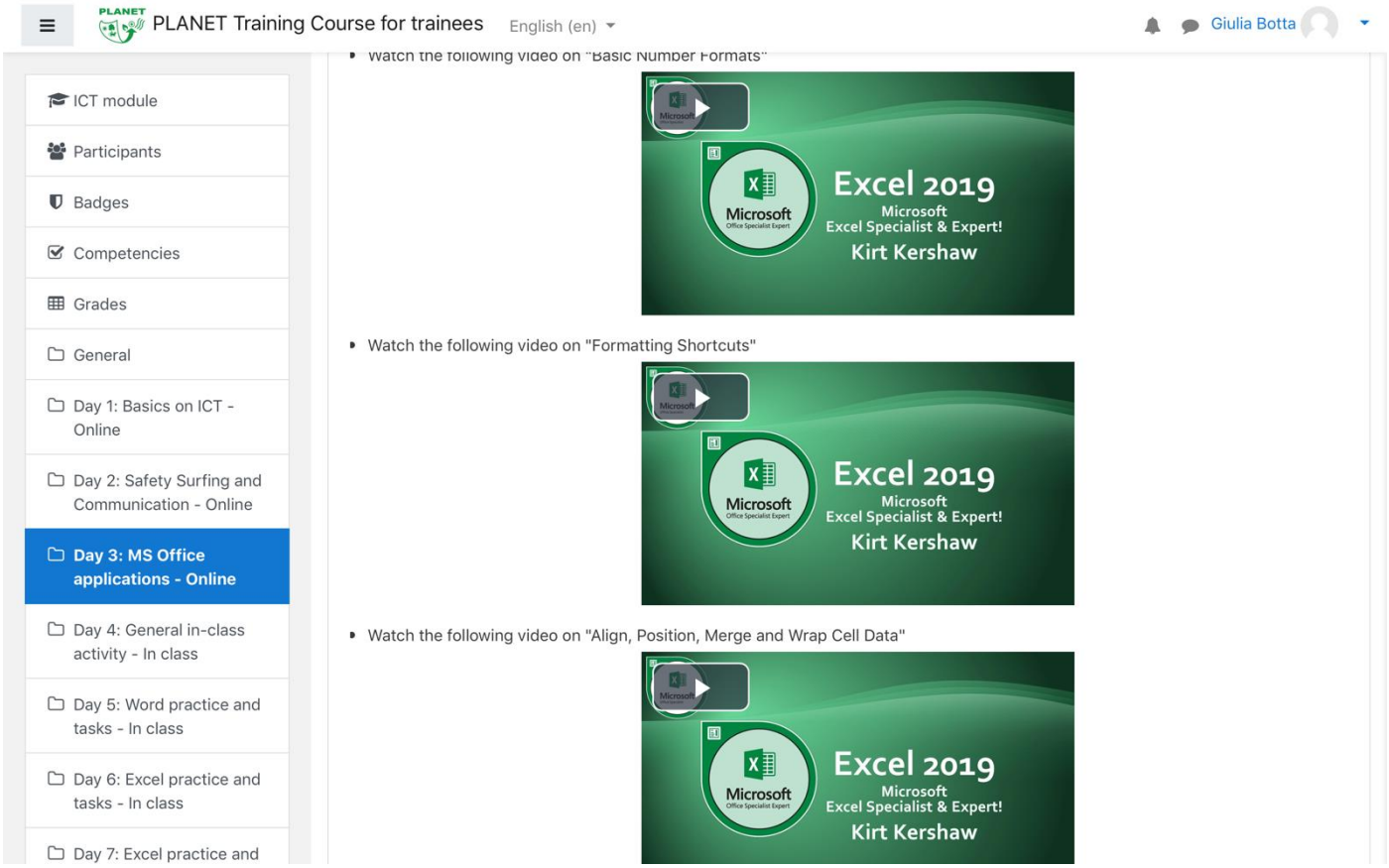

Figura 243

PLANET – PLan for Agriculture reNewable Energy Training

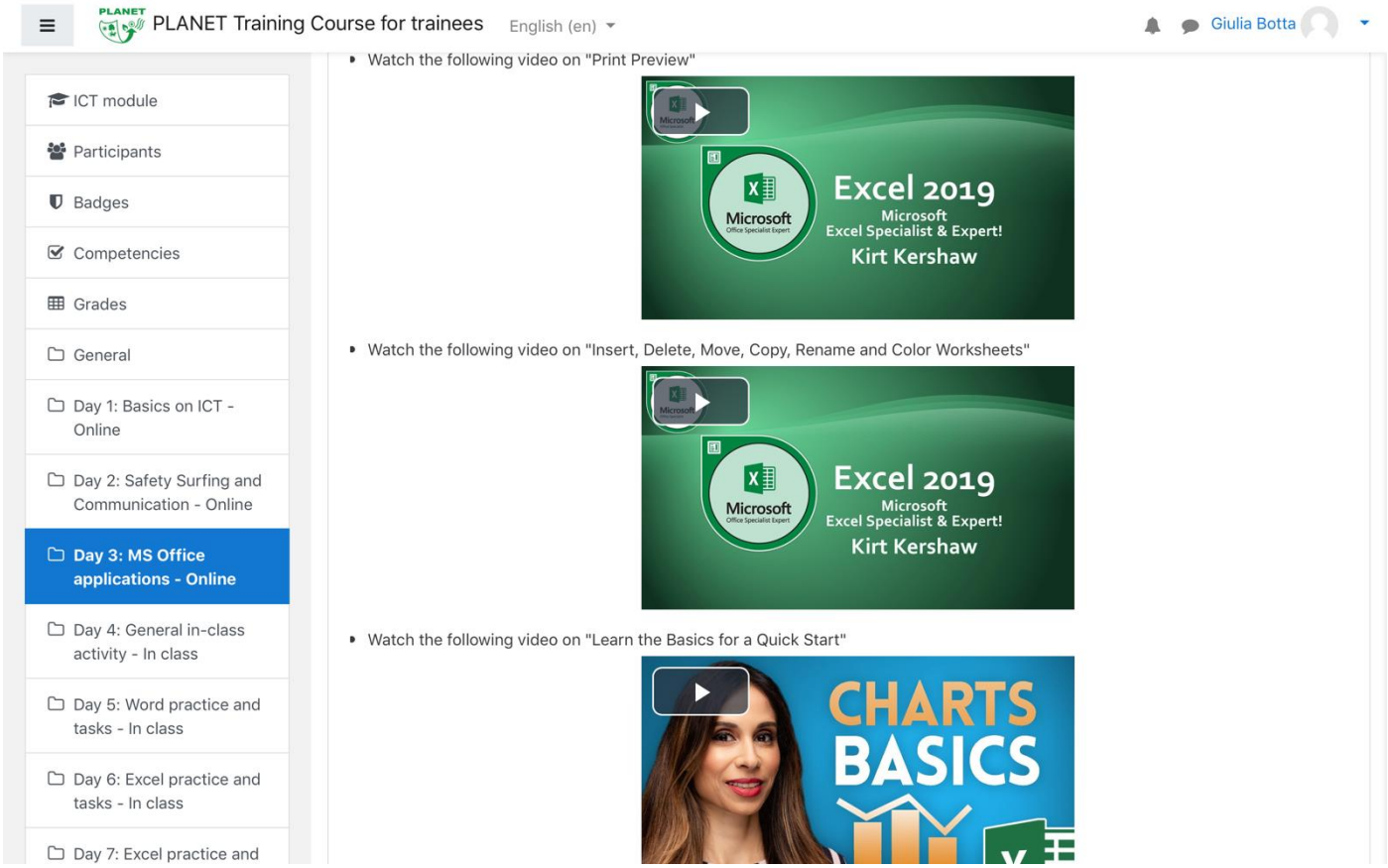

Figura 244

PLANET – PLan for Agriculture reNewable Energy Training

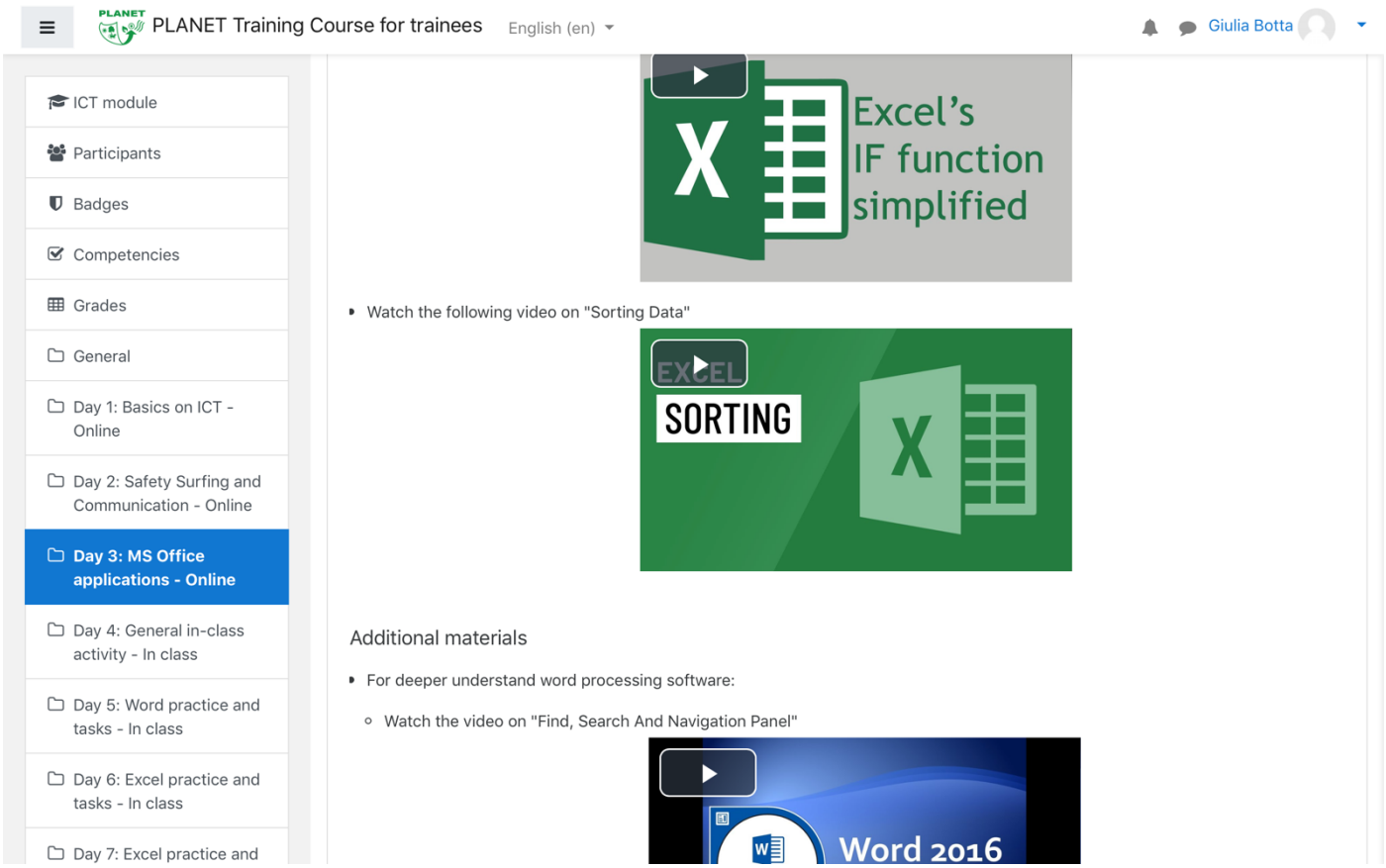

Figura 245

PLANET – PLan for Agriculture reNewable Energy Training

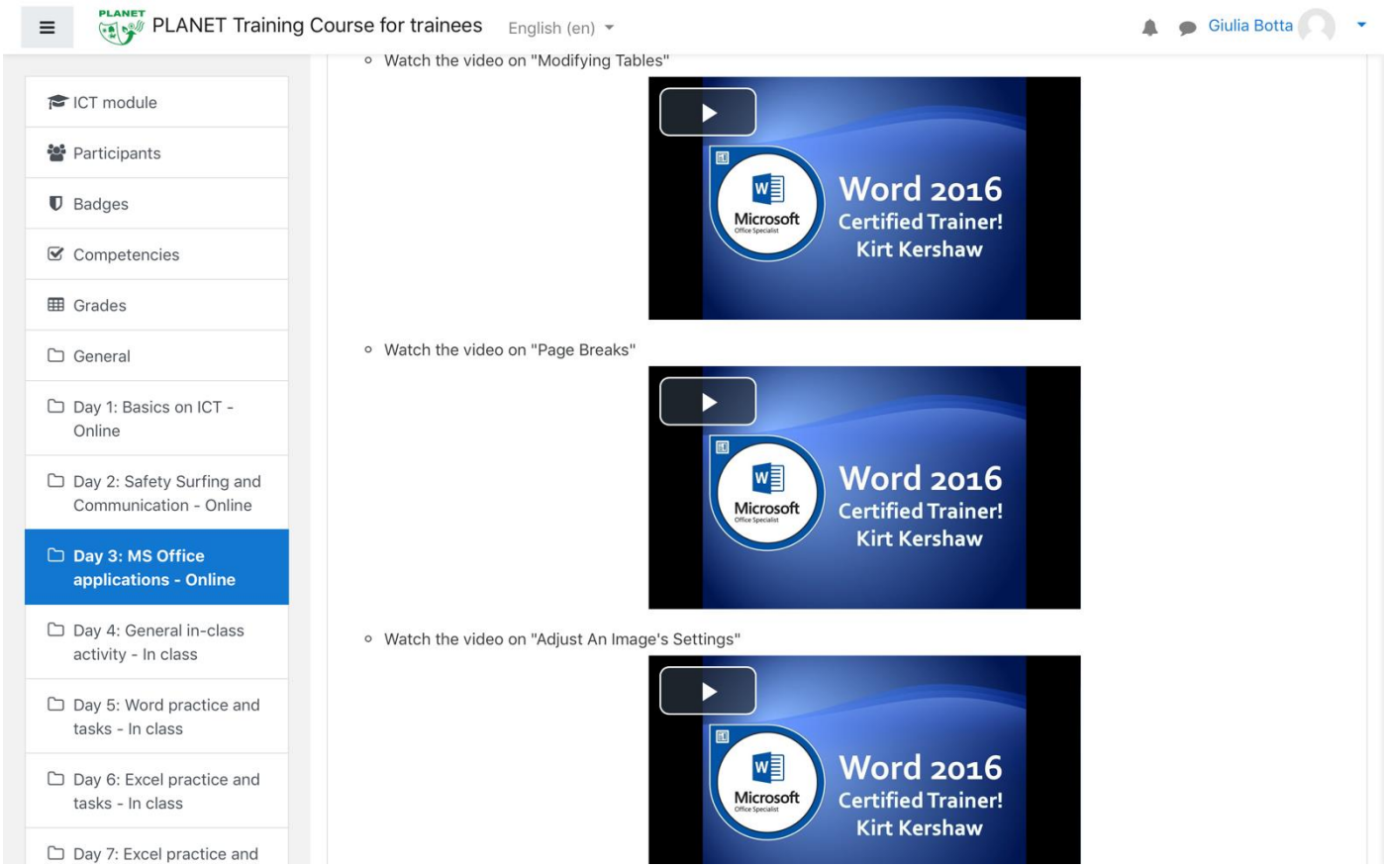

Figura 246

PLANET – PLan for Agriculture reNewable Energy Training

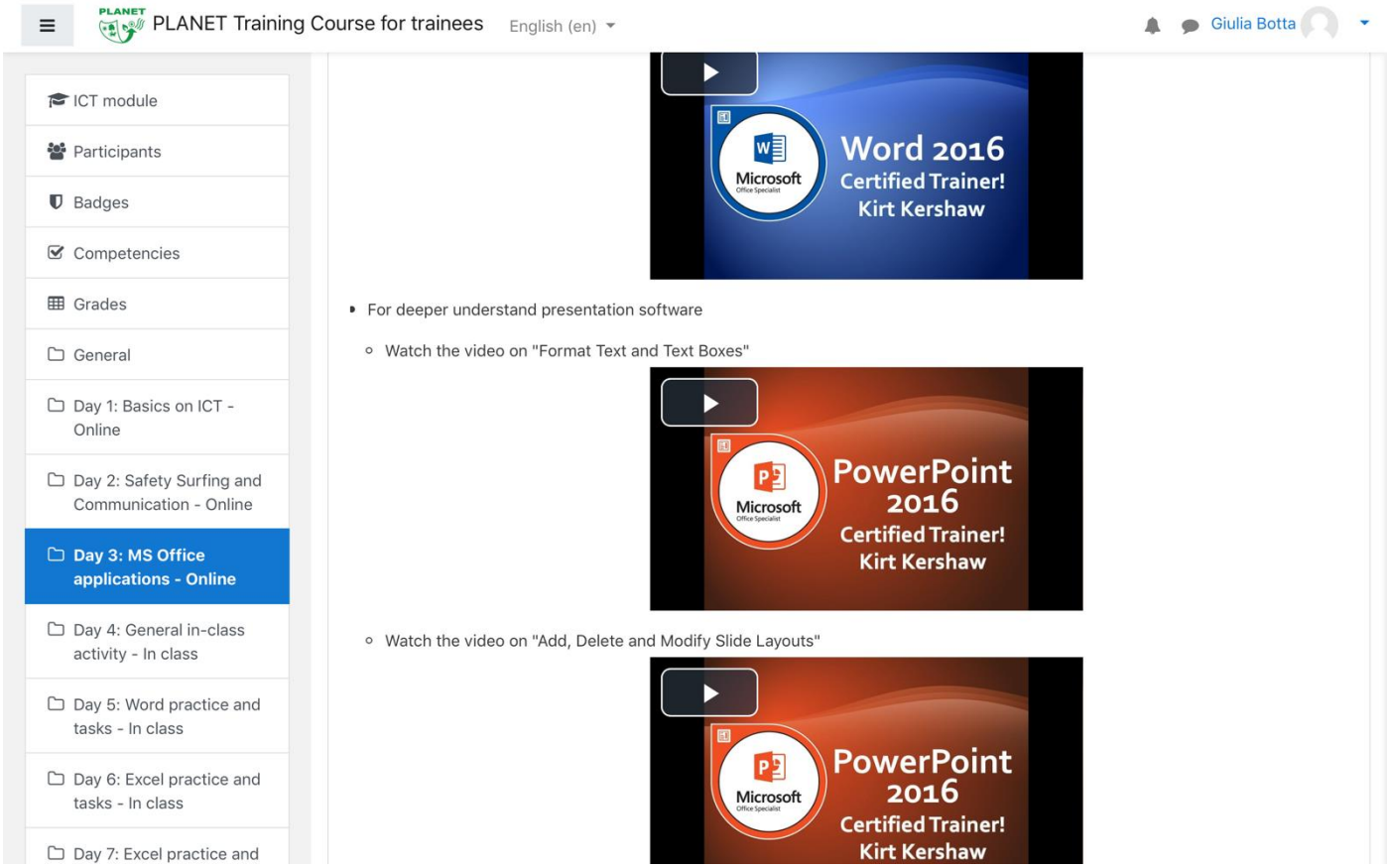

Figura 247

PLANET – PLan for Agriculture reNewable Energy Training

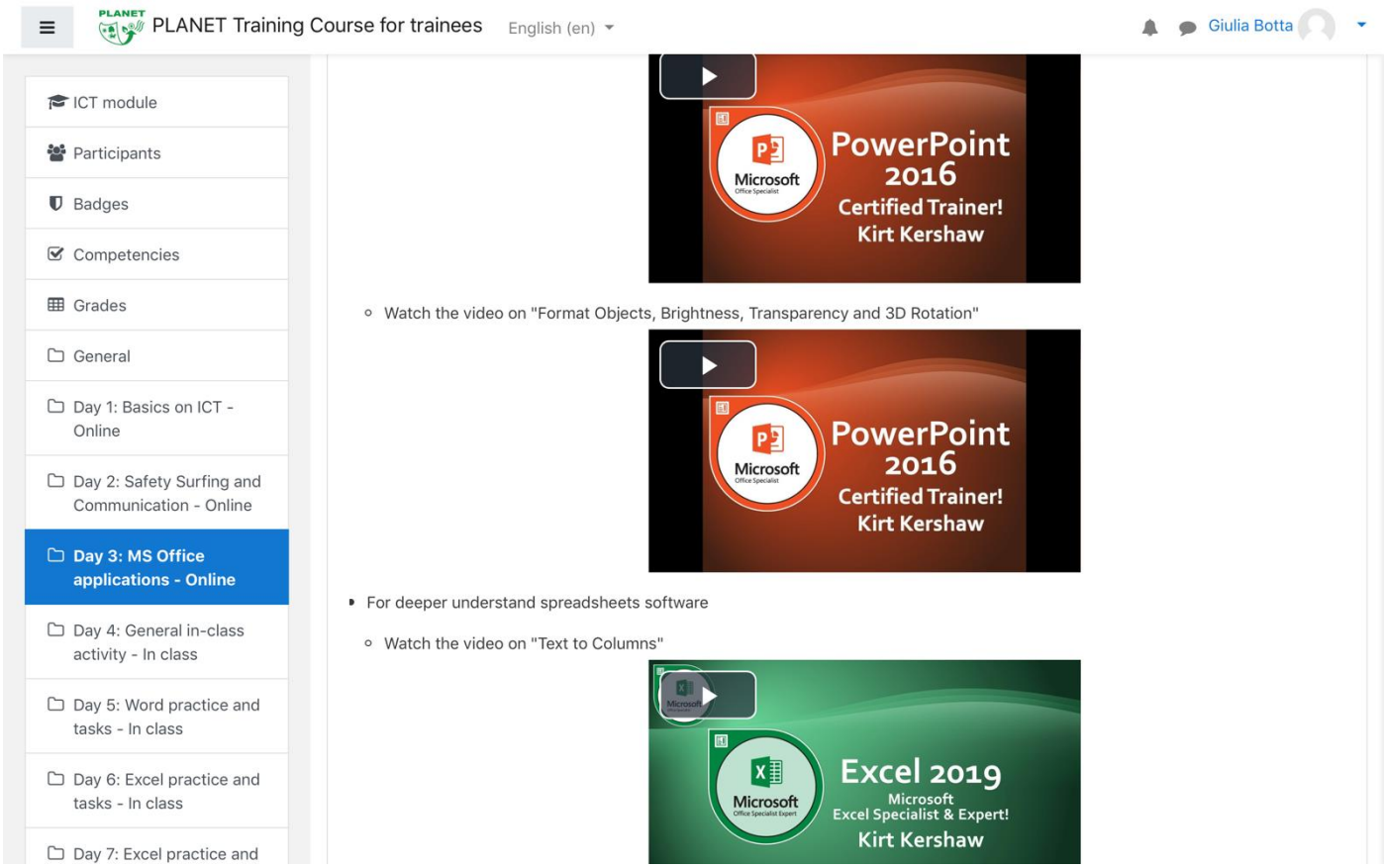

Figura 248

PLANET – PLan for Agriculture reNewable Energy Training

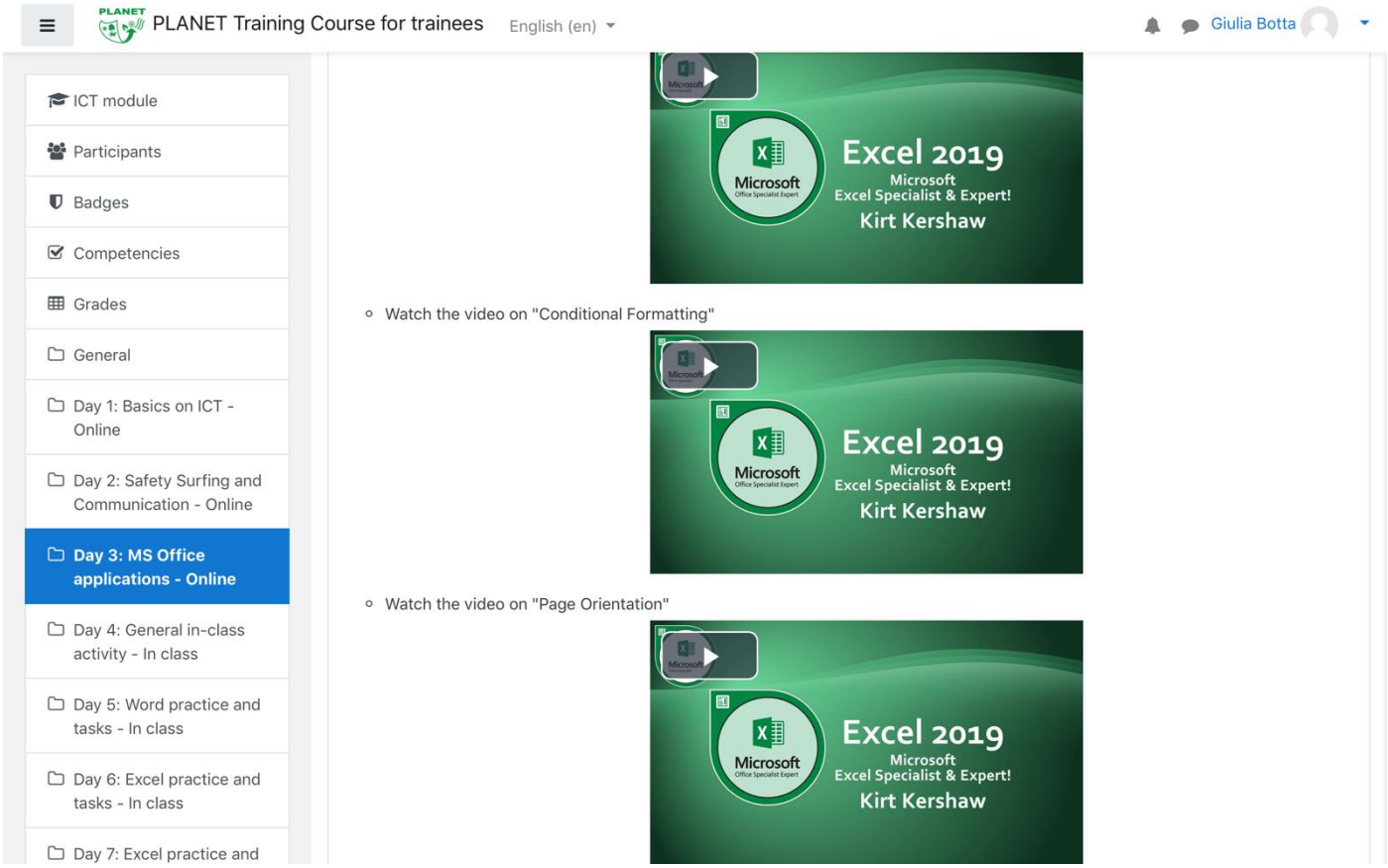

Figura 249

PLANET – PLan for Agriculture reNewable Energy Training

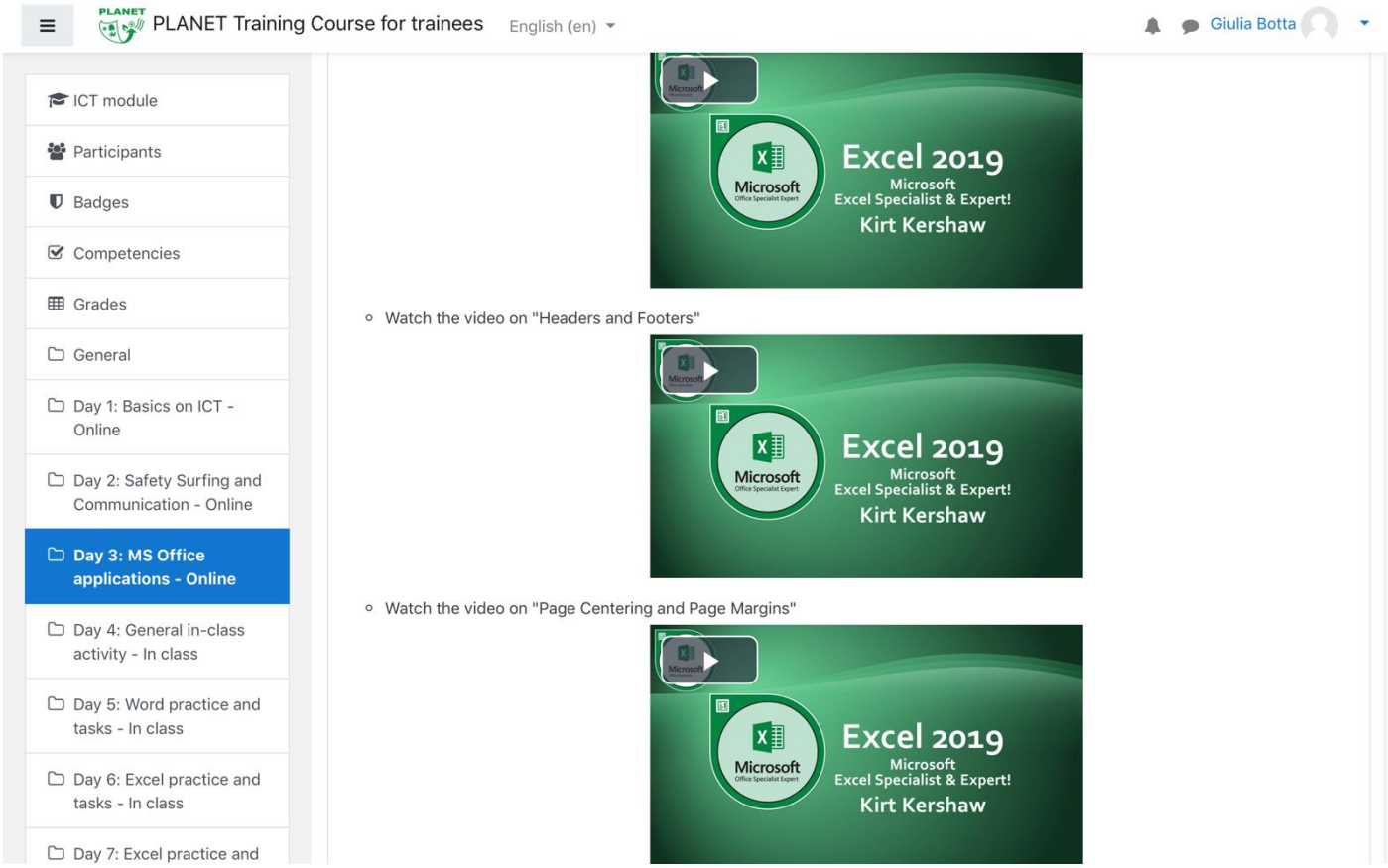

Figura 250

PLANET – PLan for Agriculture reNewable Energy Training

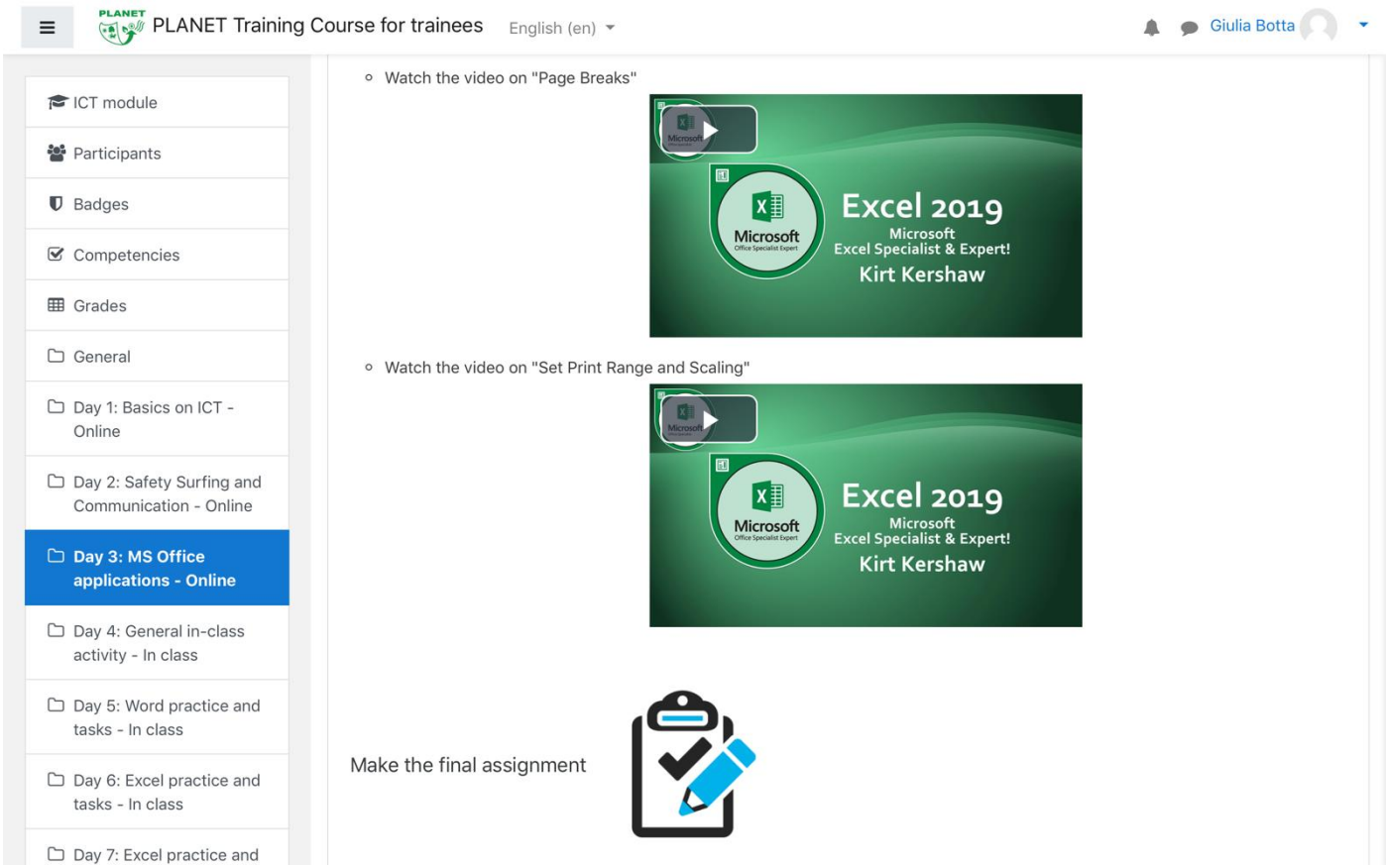

Figura 251

PLANET – PLan for Agriculture reNewable Energy Training

FOUR:

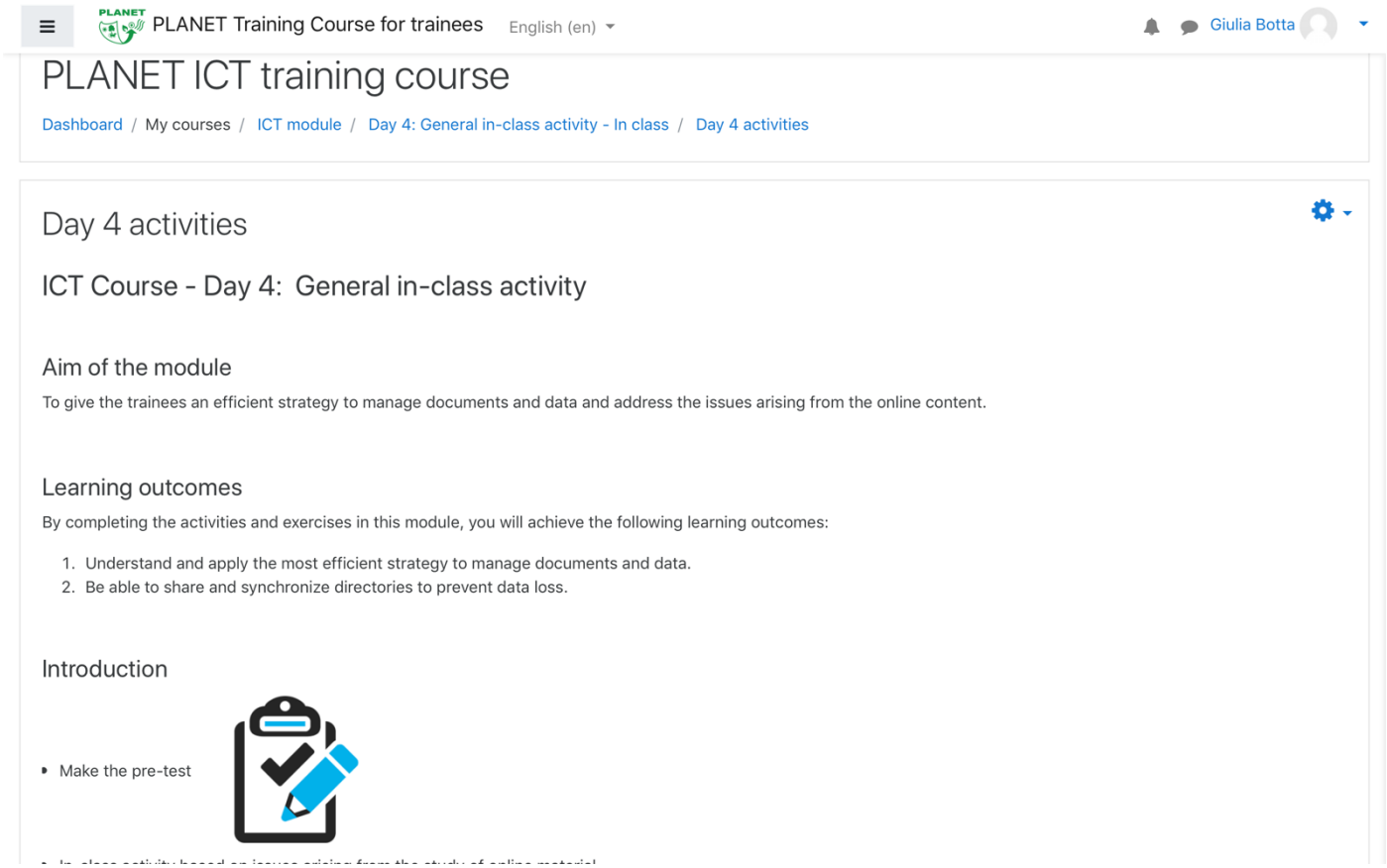

Figura 252

PLANET – PLan for Agriculture reNewable Energy Training

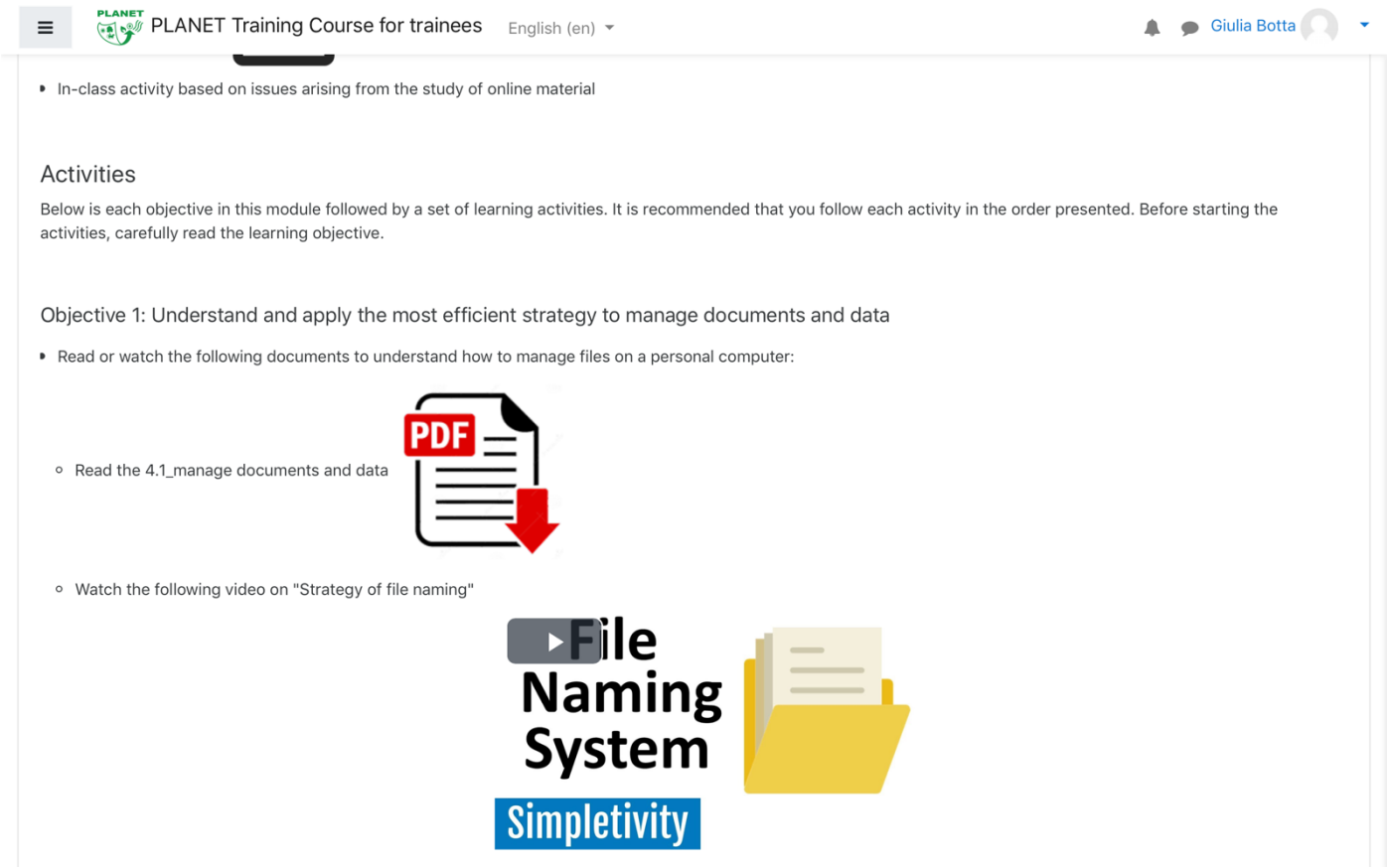

Figura 253

PLANET – PLan for Agriculture reNewable Energy Training

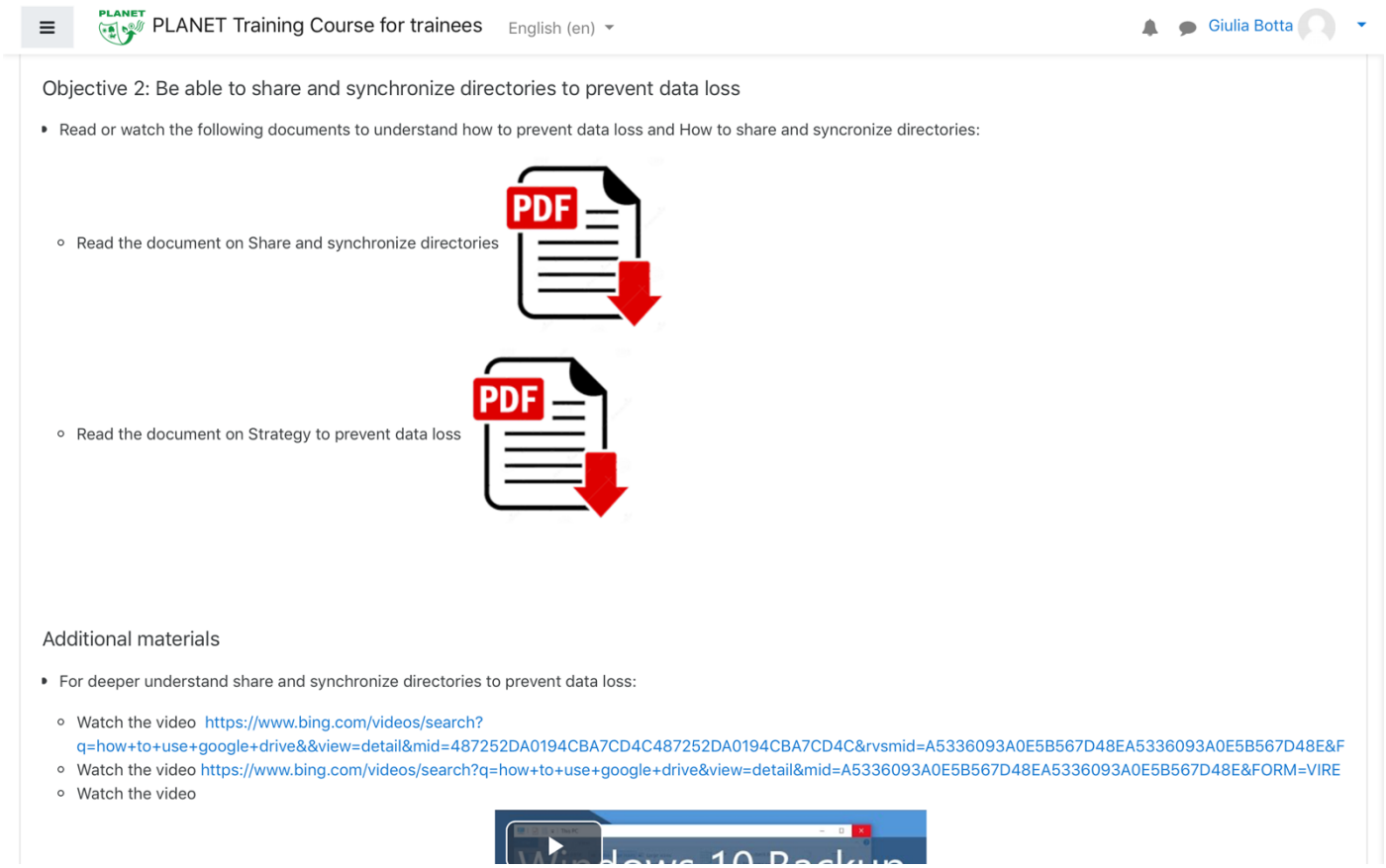

Figura 254

PLANET – PLan for Agriculture reNewable Energy Training

Figura 255

PLANET – PLan for Agriculture reNewable Energy Training

FIVE:

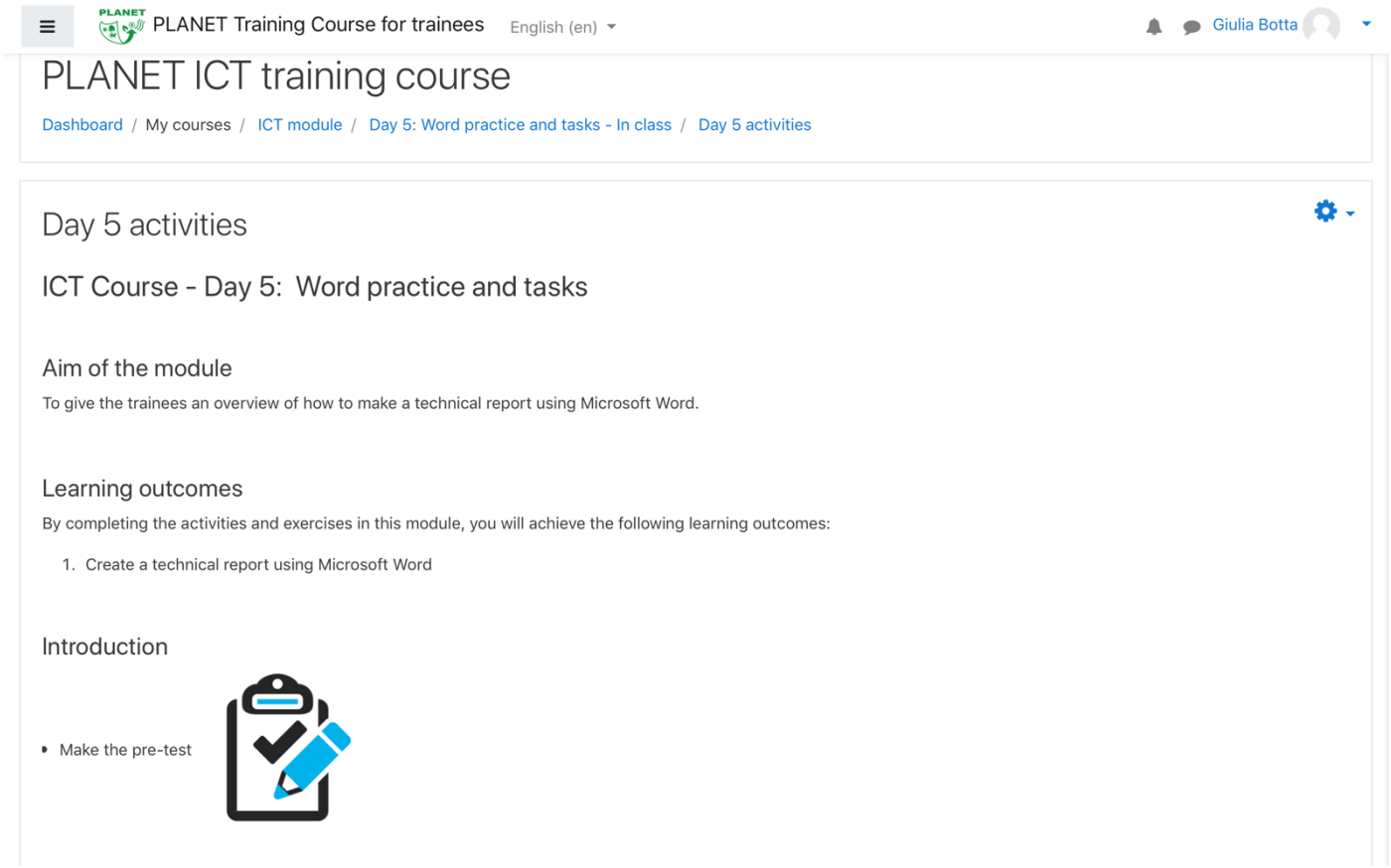

Figura 256

PLANET – PLan for Agriculture reNewable Energy Training

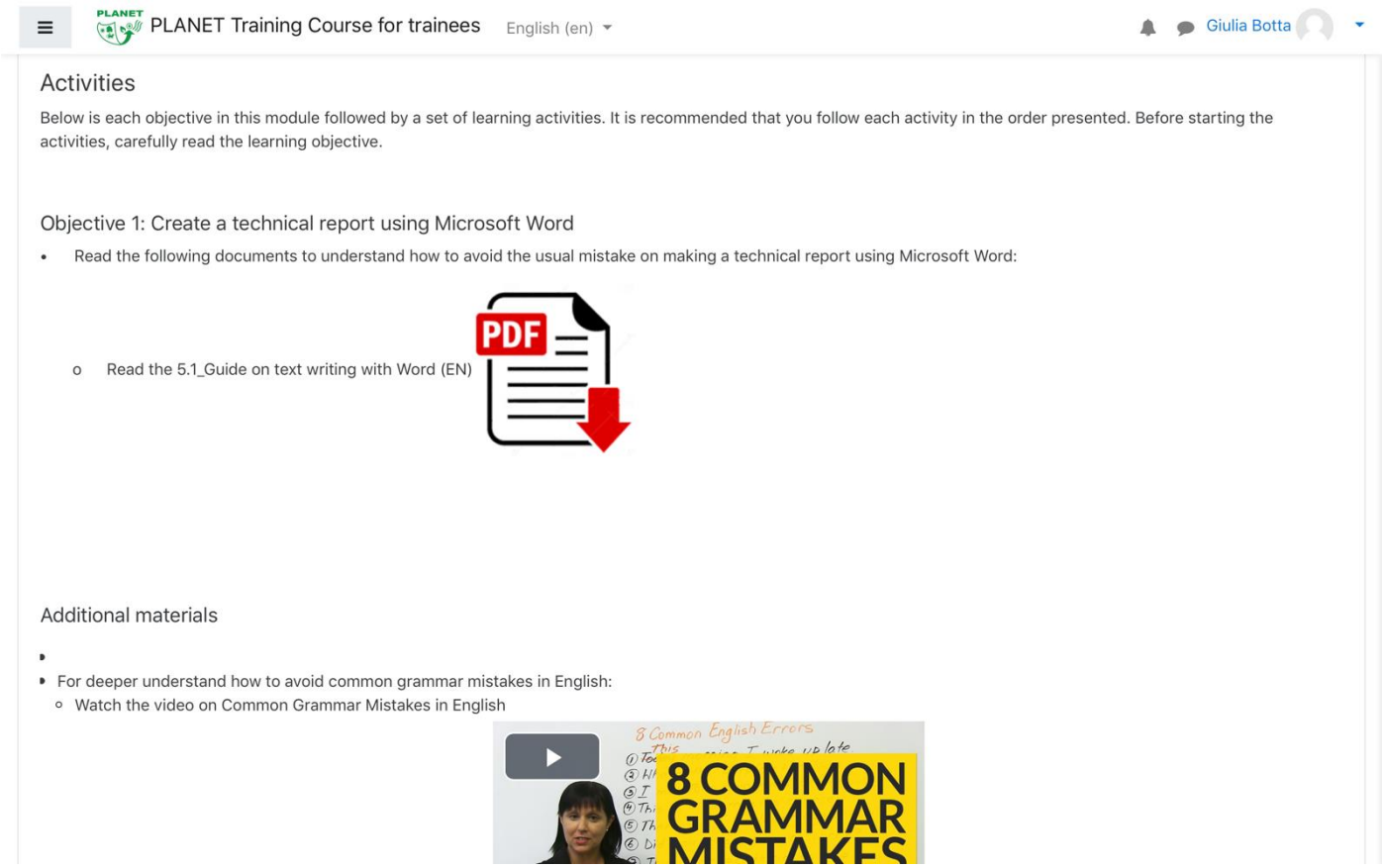

Figura 257

PLANET – PLan for Agriculture reNewable Energy Training

Figura 258

PLANET – PLan for Agriculture reNewable Energy Training

SIX:

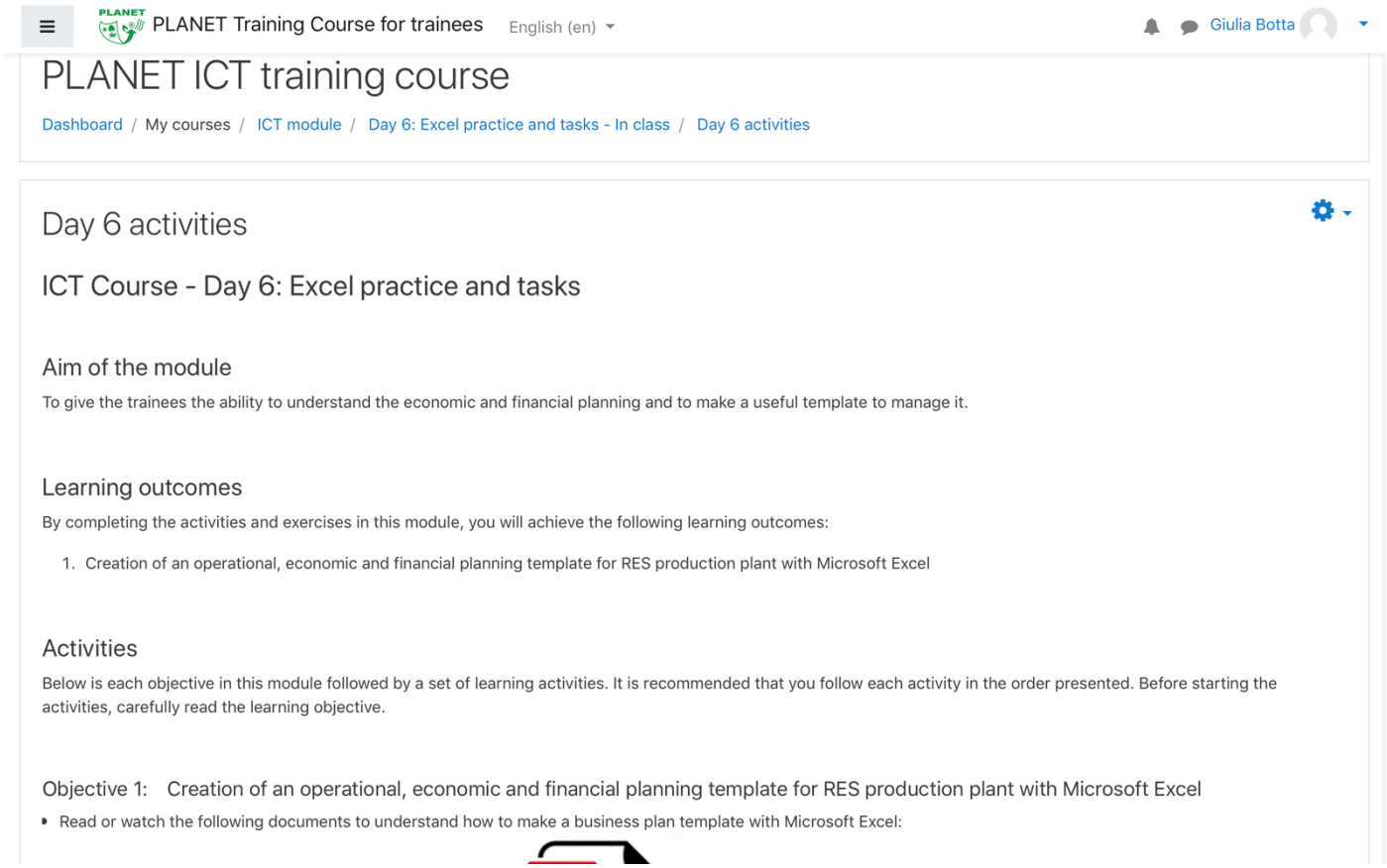

Figura 259

PLANET – PLan for Agriculture reNewable Energy Training

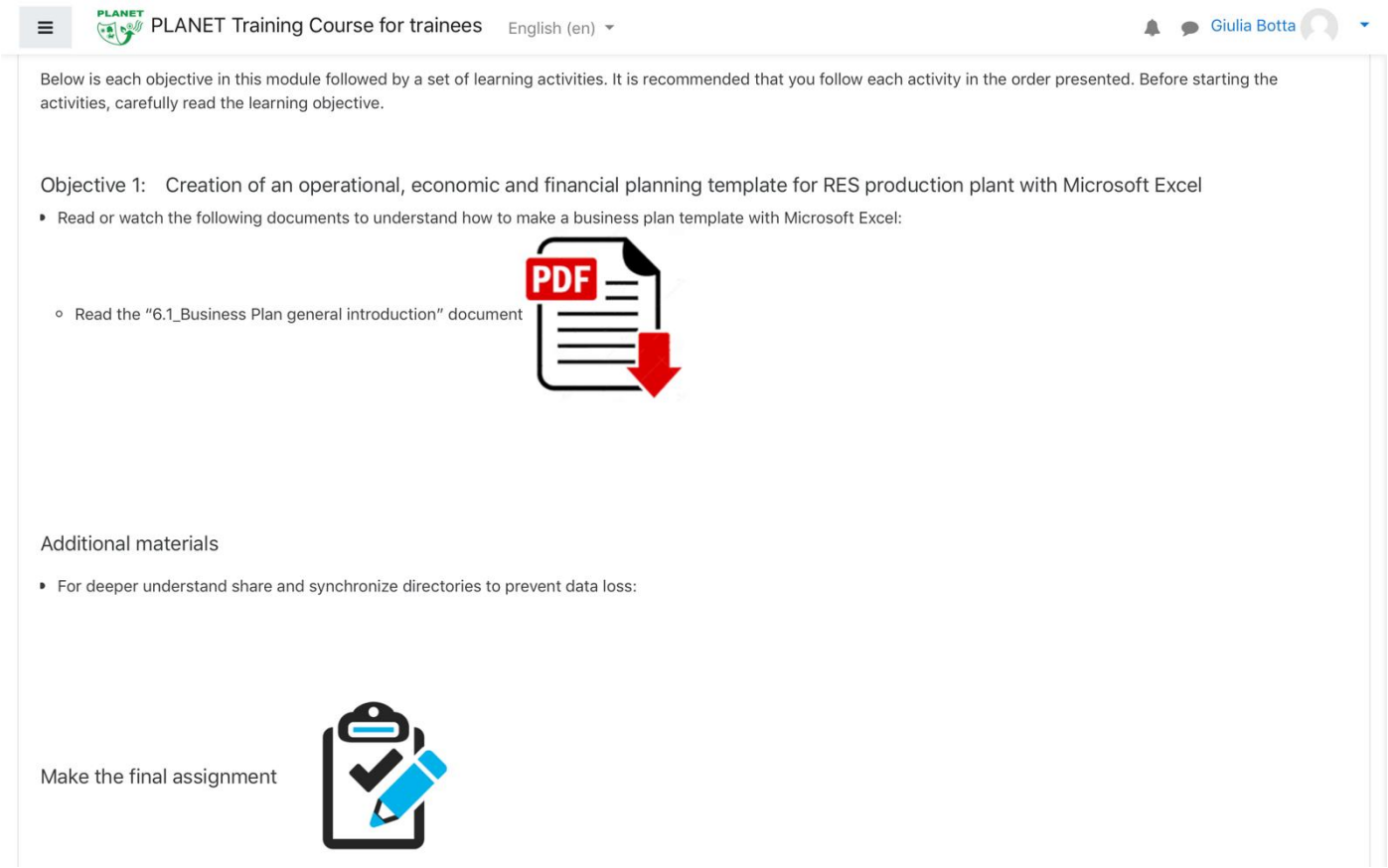

Figura 260

PLANET – PLan for Agriculture reNewable Energy Training

SEVEN:

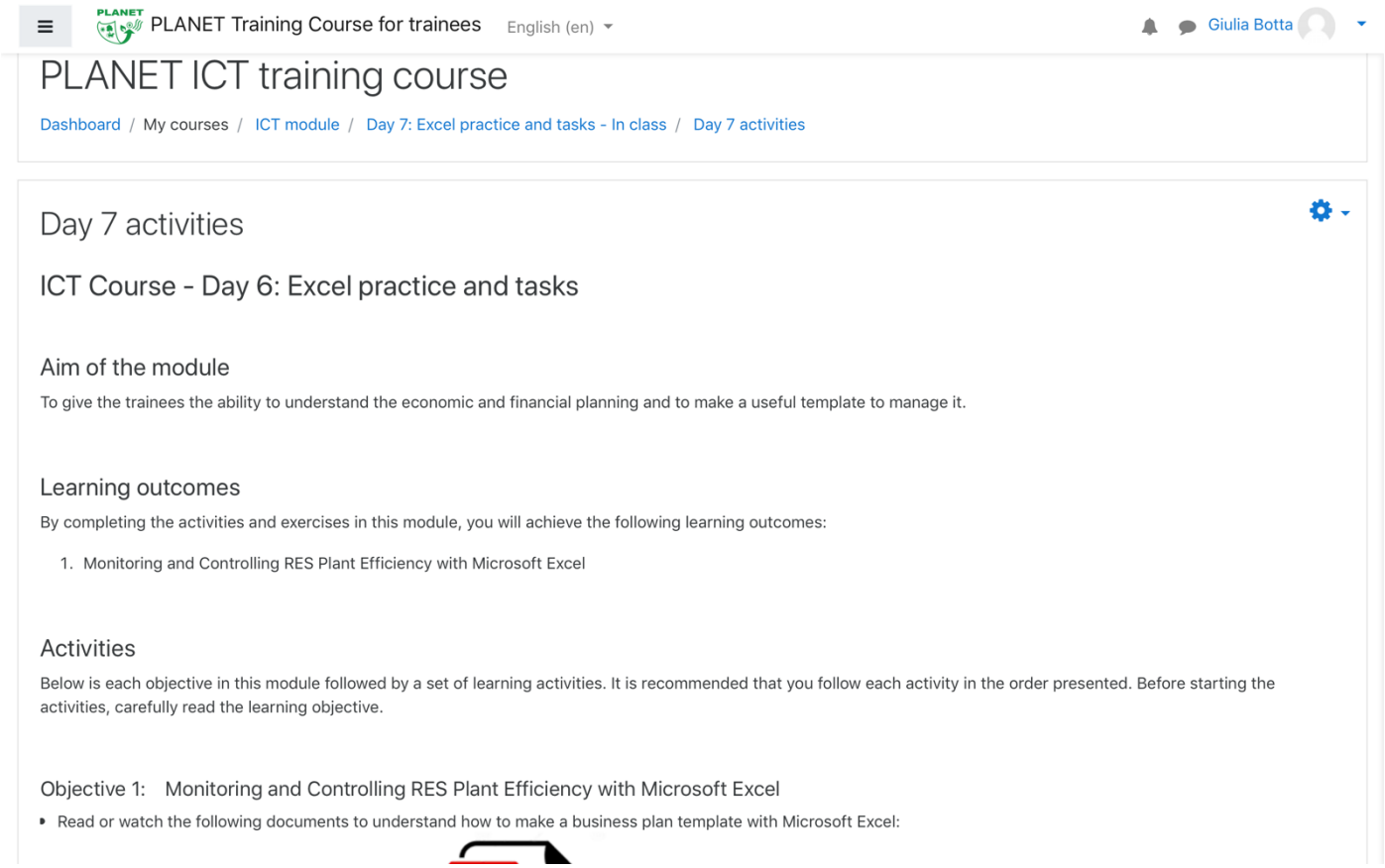

Figura 261

PLANET – PLan for Agriculture reNewable Energy Training

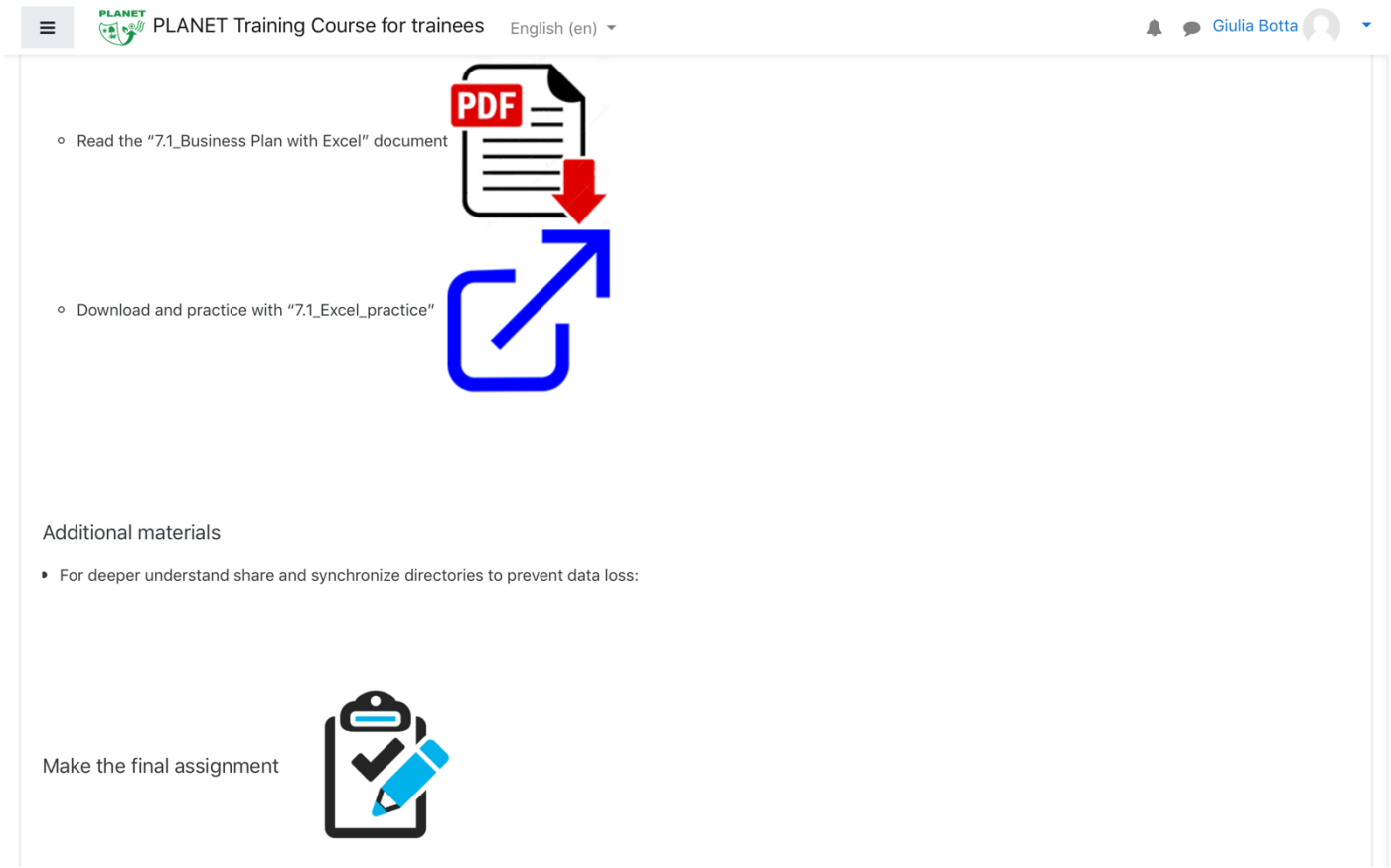

Figura 262

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EIGHT:

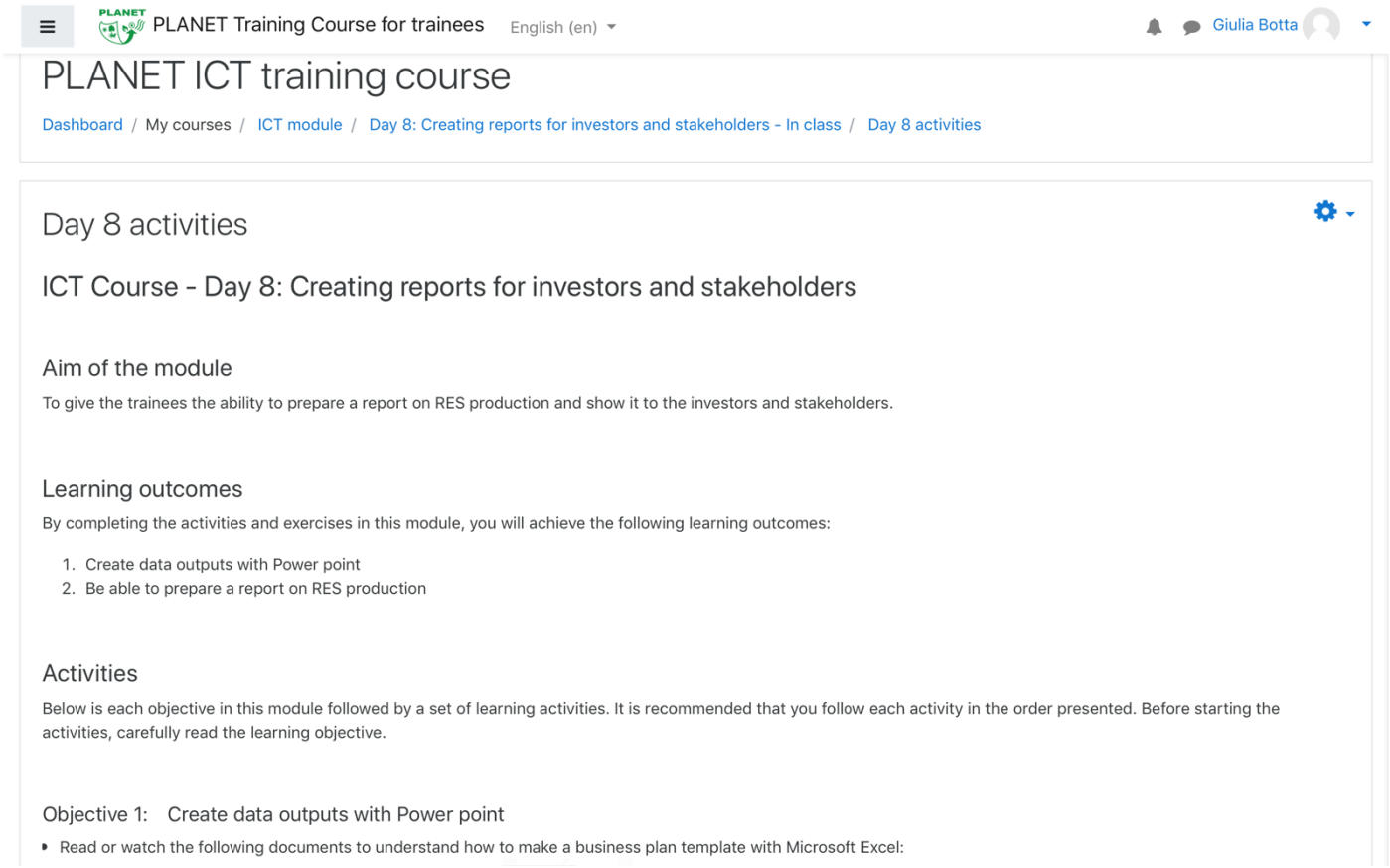

Figura 263

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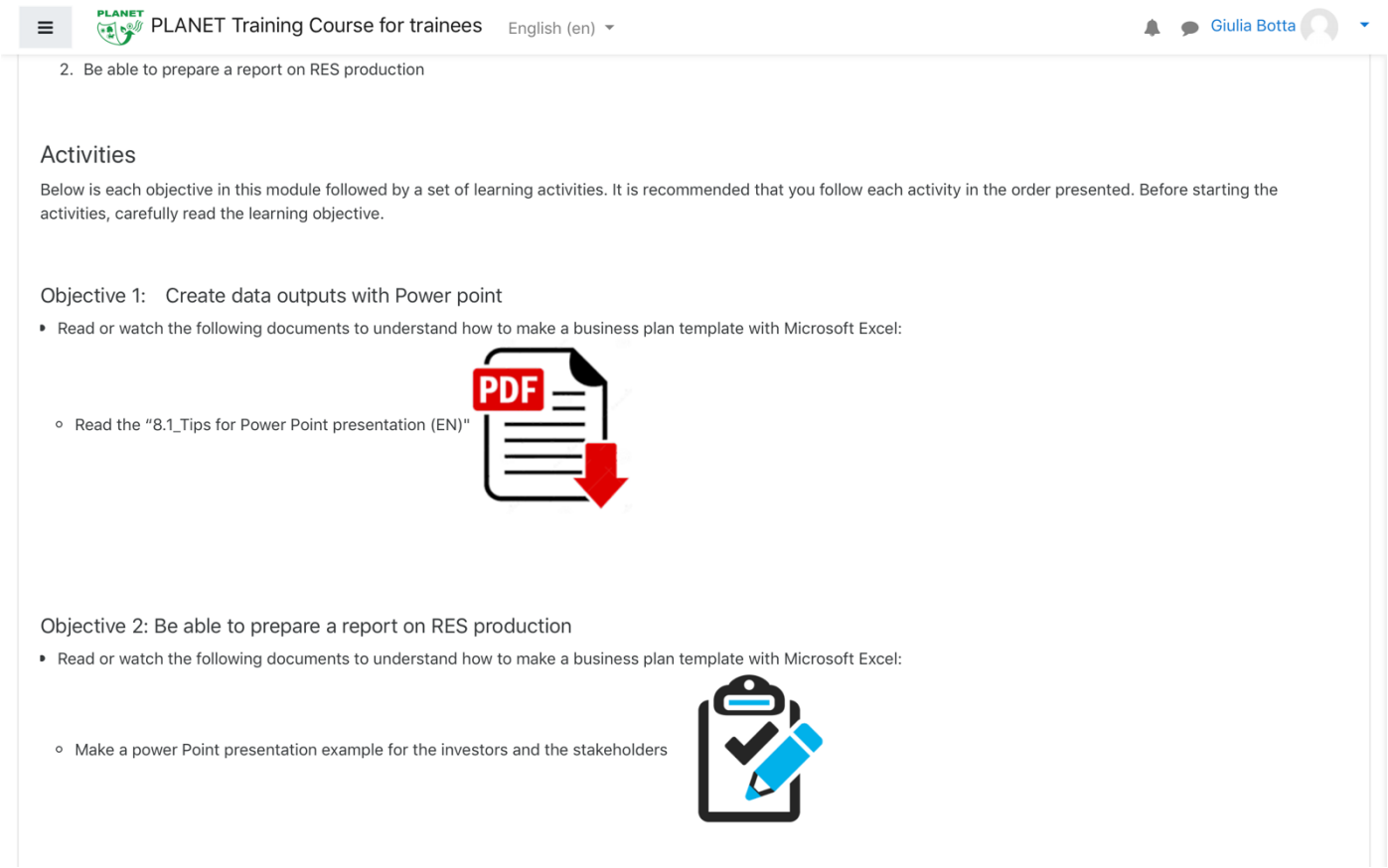

Figura 264

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NINE:

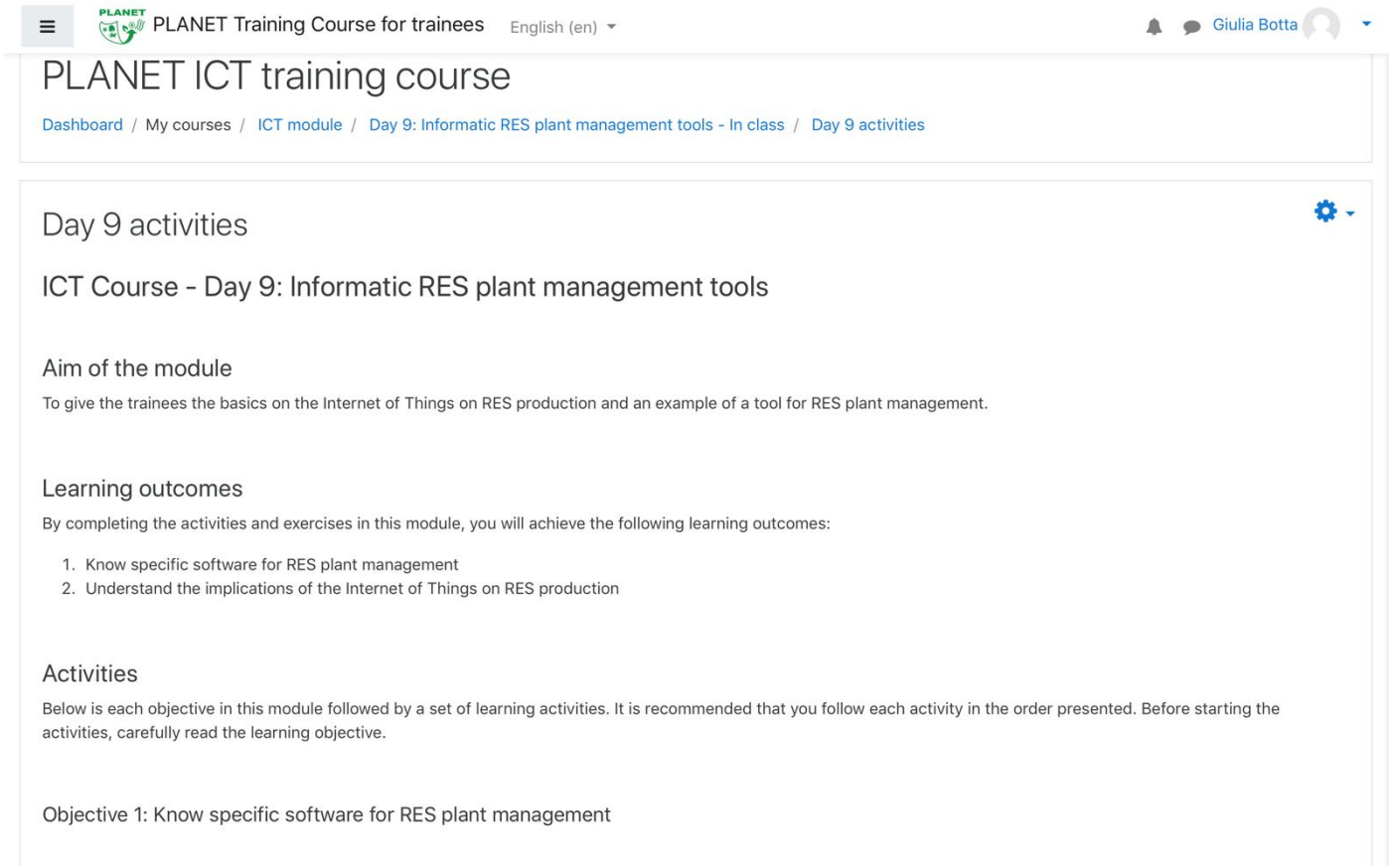

Figura 265

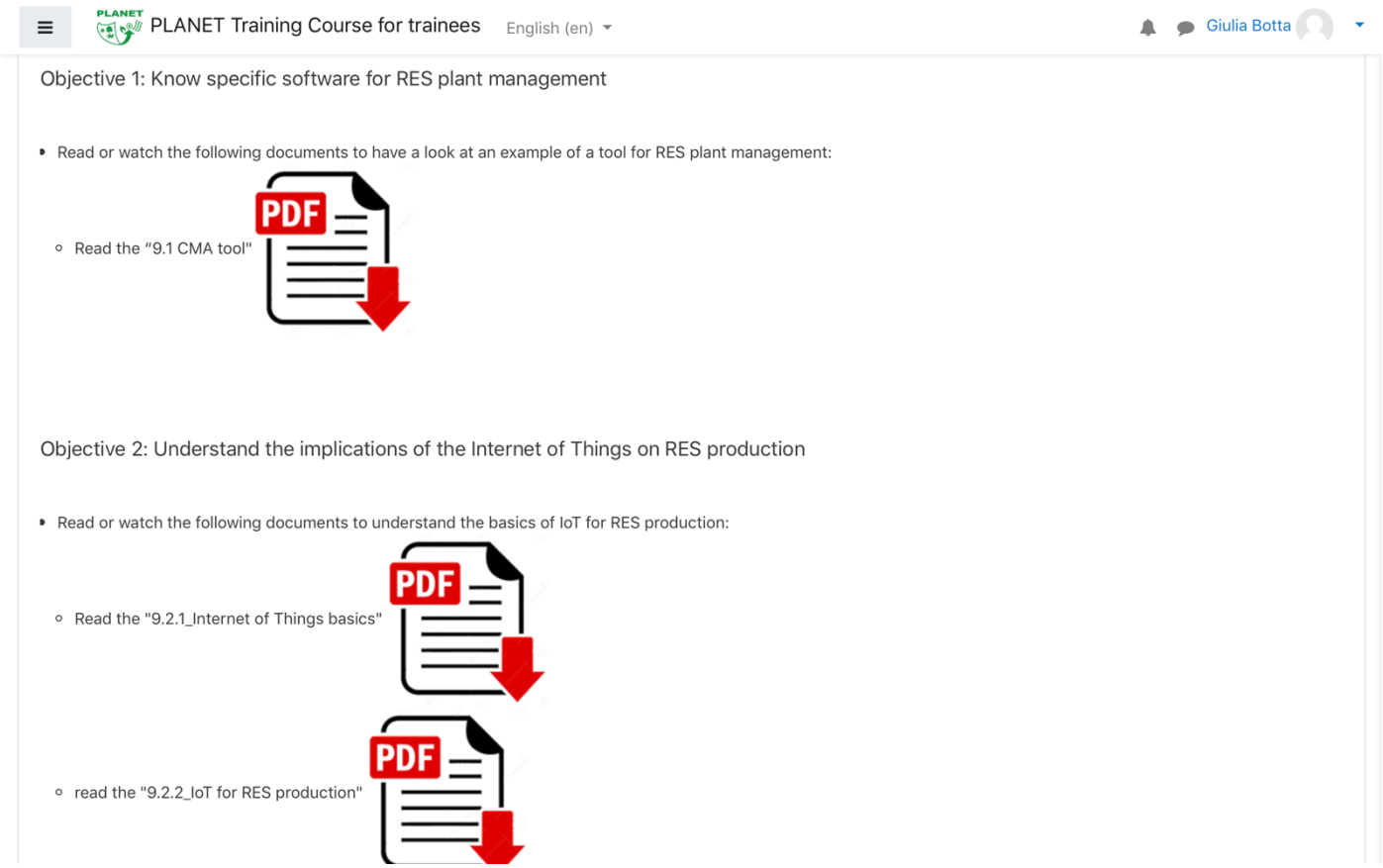
PLANET Training Course for trainees
English (en)
Giulia Botta
Objective 1: Know specific software for RES plant management
Read or watch the following documents to have a look at an example of a tool for RES plant management:
Read the “9.1 CMA tool"
PDF
Objective 2: Understand the implications of the Internet of Things on RES production
Read or watch the following documents to understand the basics of IoT for RES production:
Read the "9.2.1_Internet of Things basics"
PDF
read the "9.2.2_IoT for RES production"
PDF

Figura 266

PLANET – PLan for Agriculture reNewable Energy Training

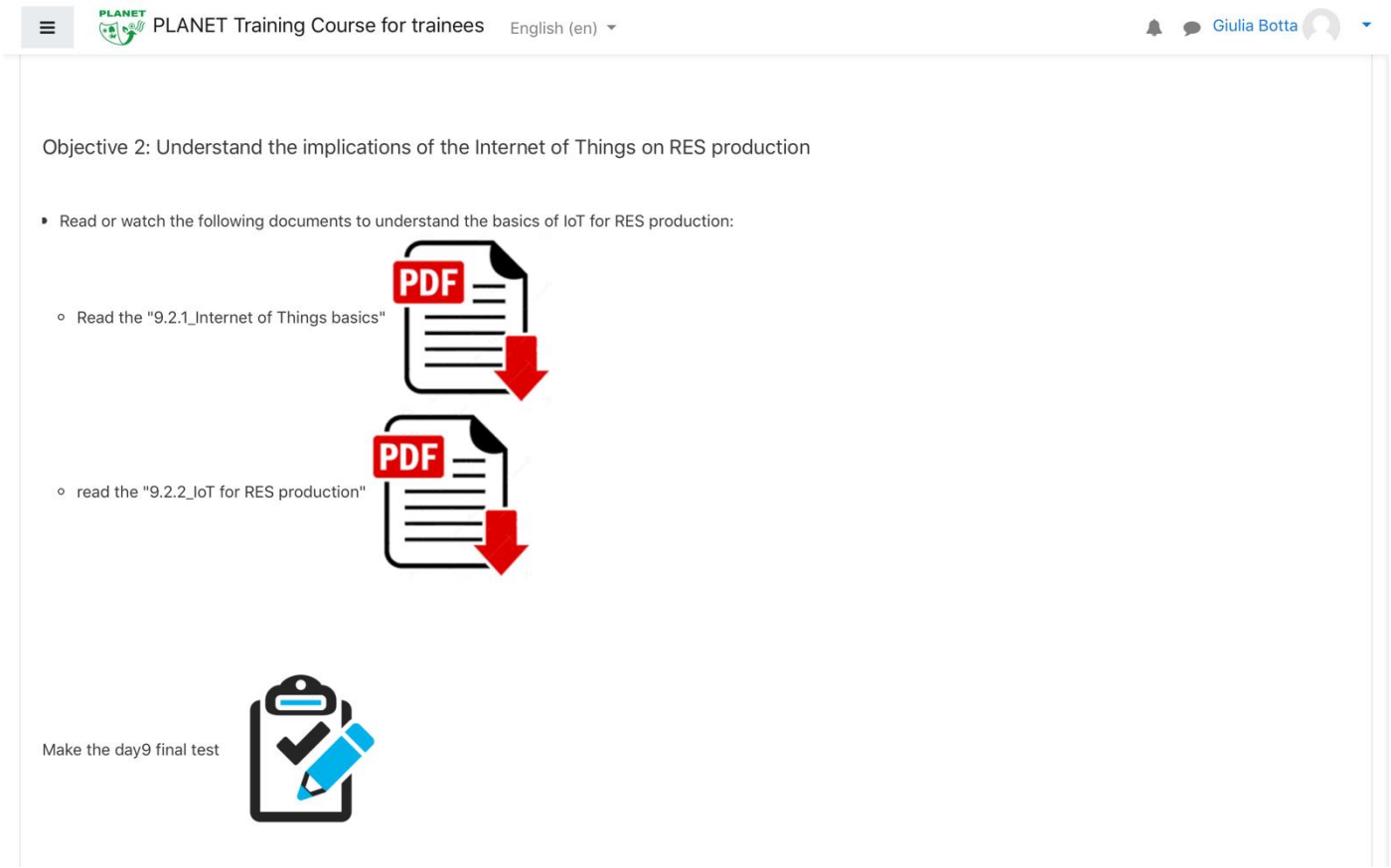

Figura 267

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ANNEX 2: EVALUATION OF TRAINEES' LEARNING

LEARNING EVALUATION:

In order to evaluate the learning outcomes of the trainees, tests have been created on the platform for each training day of each module. In particular, it is planned to take a preliminary test of 5 questions before the trainee starts to follow the course, and a final test (of 10 questions) at the end of the course. The latter gives the evaluation of each student and allows the teacher to understand (by comparing the results of the pre-test and final test) how much the course and the teaching method chosen have been able to increase the student's training (the pre-test and final test questions are "taken" from the same drawer but proposed randomly to the student.

EVALUATION OF TRAINEES' SATISFACTION:

At the end of each course, students are offered a questionnaire to assess their satisfaction. This will be delivered on paper by the teacher at the end of the last lesson and collected. This choice is dictated by the fact that this method ensures that all students fill in the questionnaire and are not influenced by the final test grade.

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EXAMPLE OF A PRE-TEST:

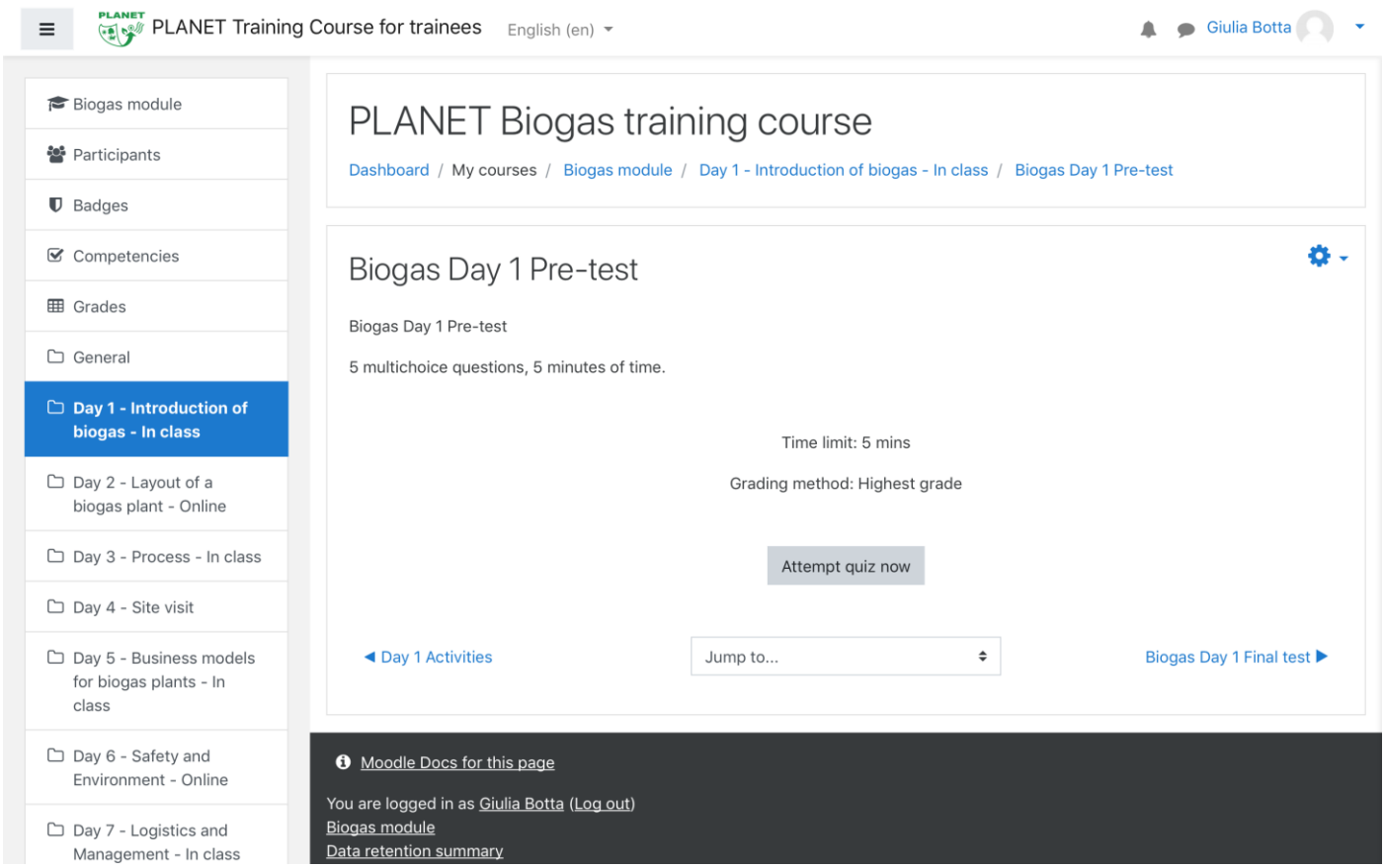

Figura 268

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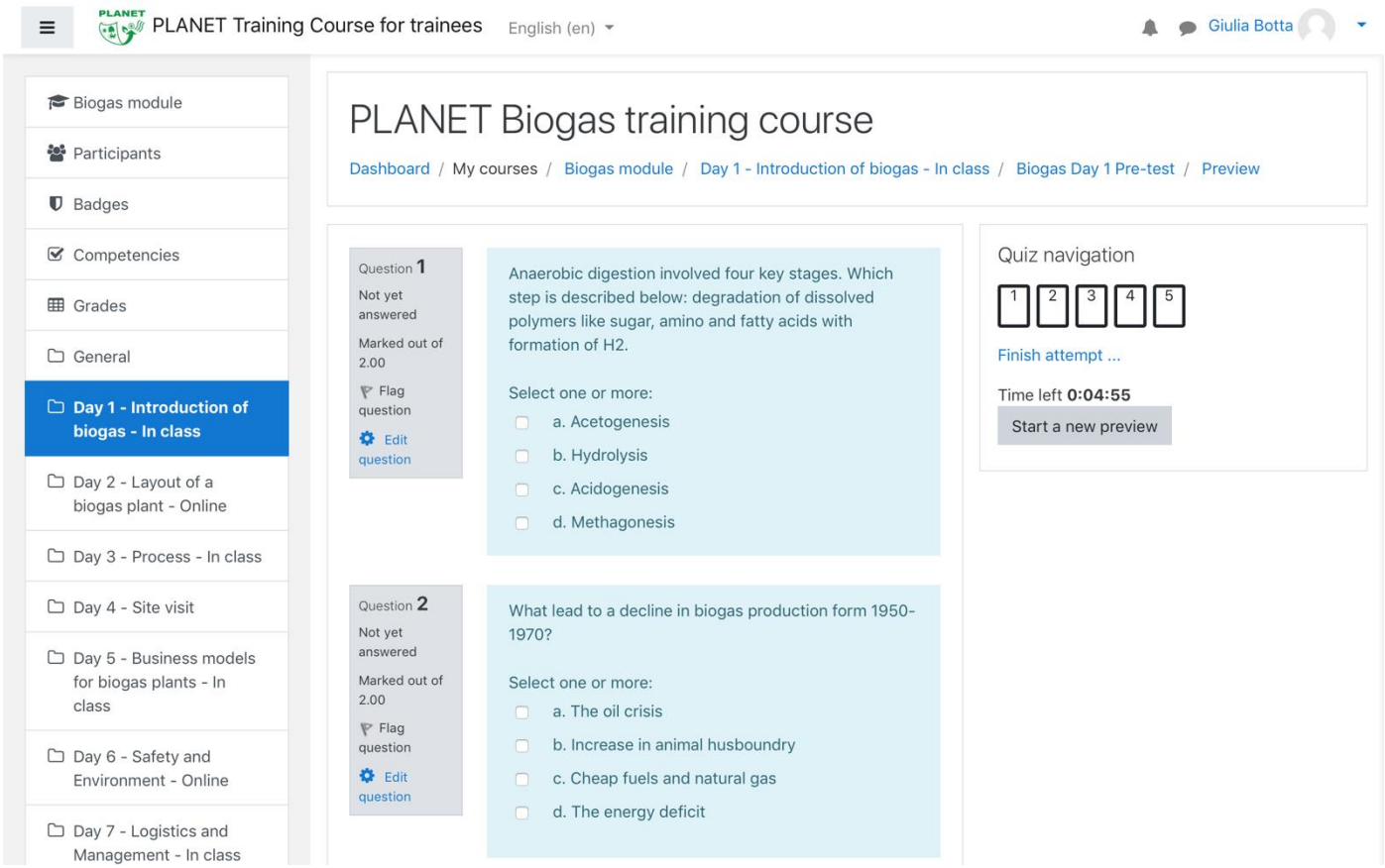

Figura 269

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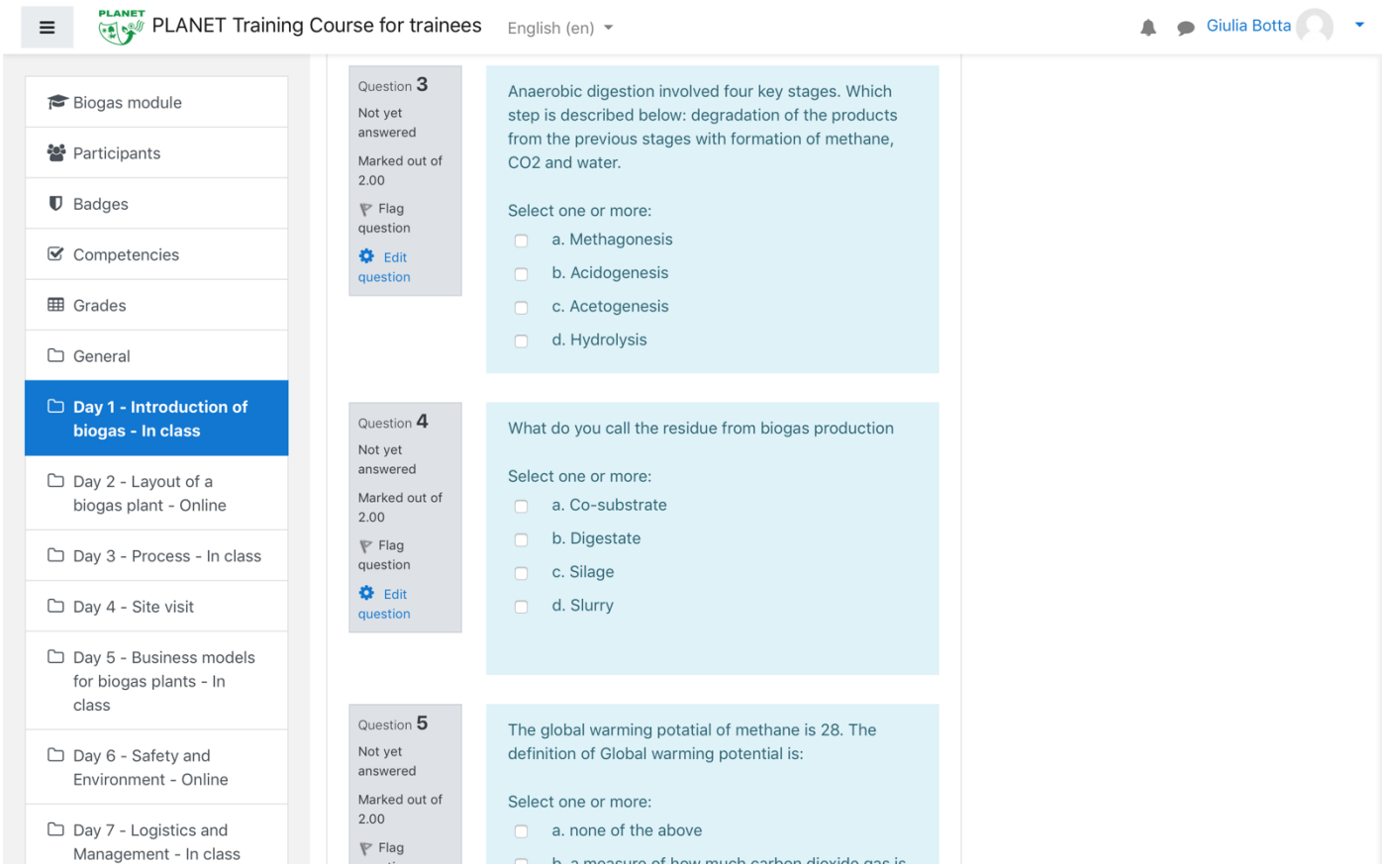

Figura 270

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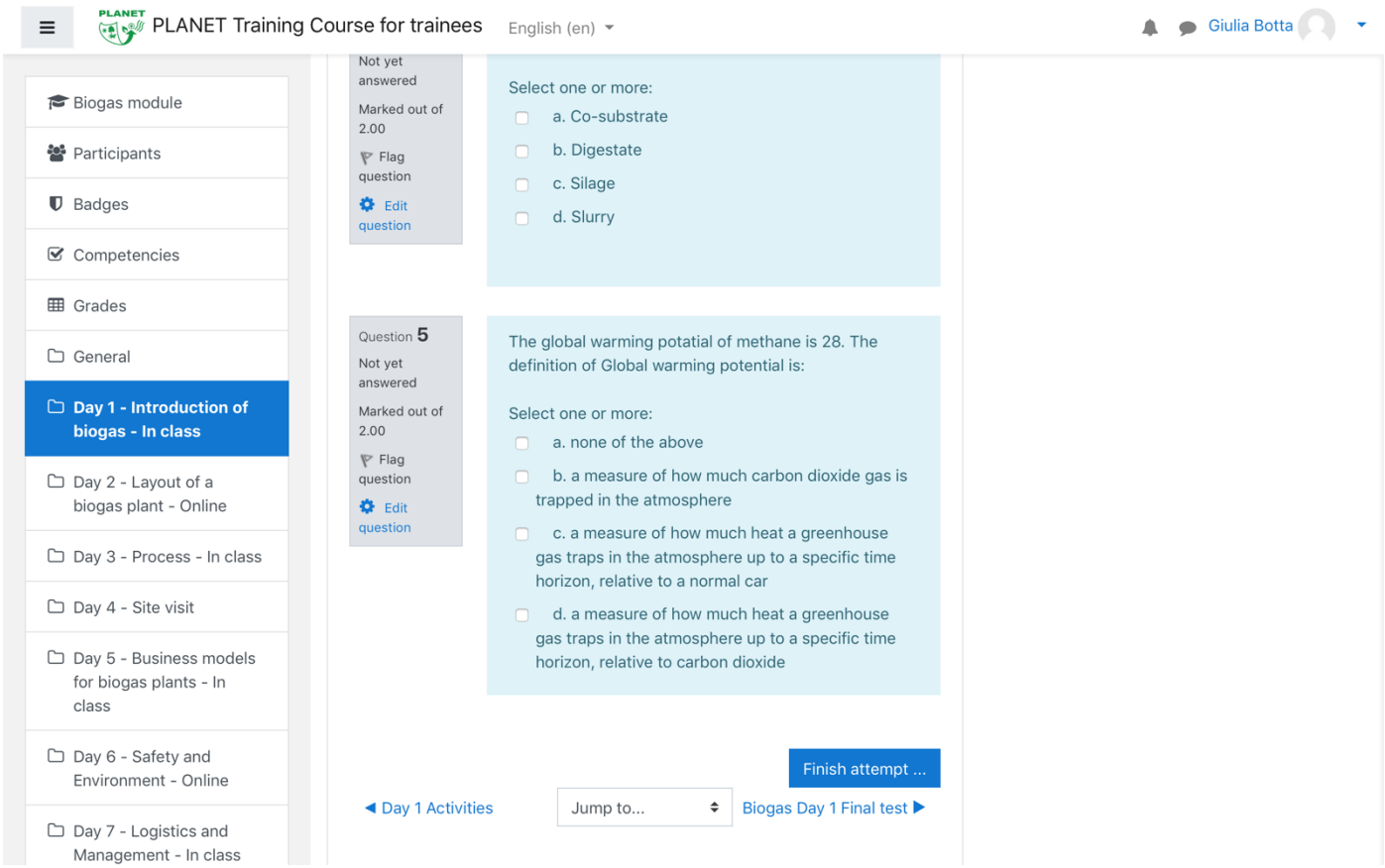

Figura 271

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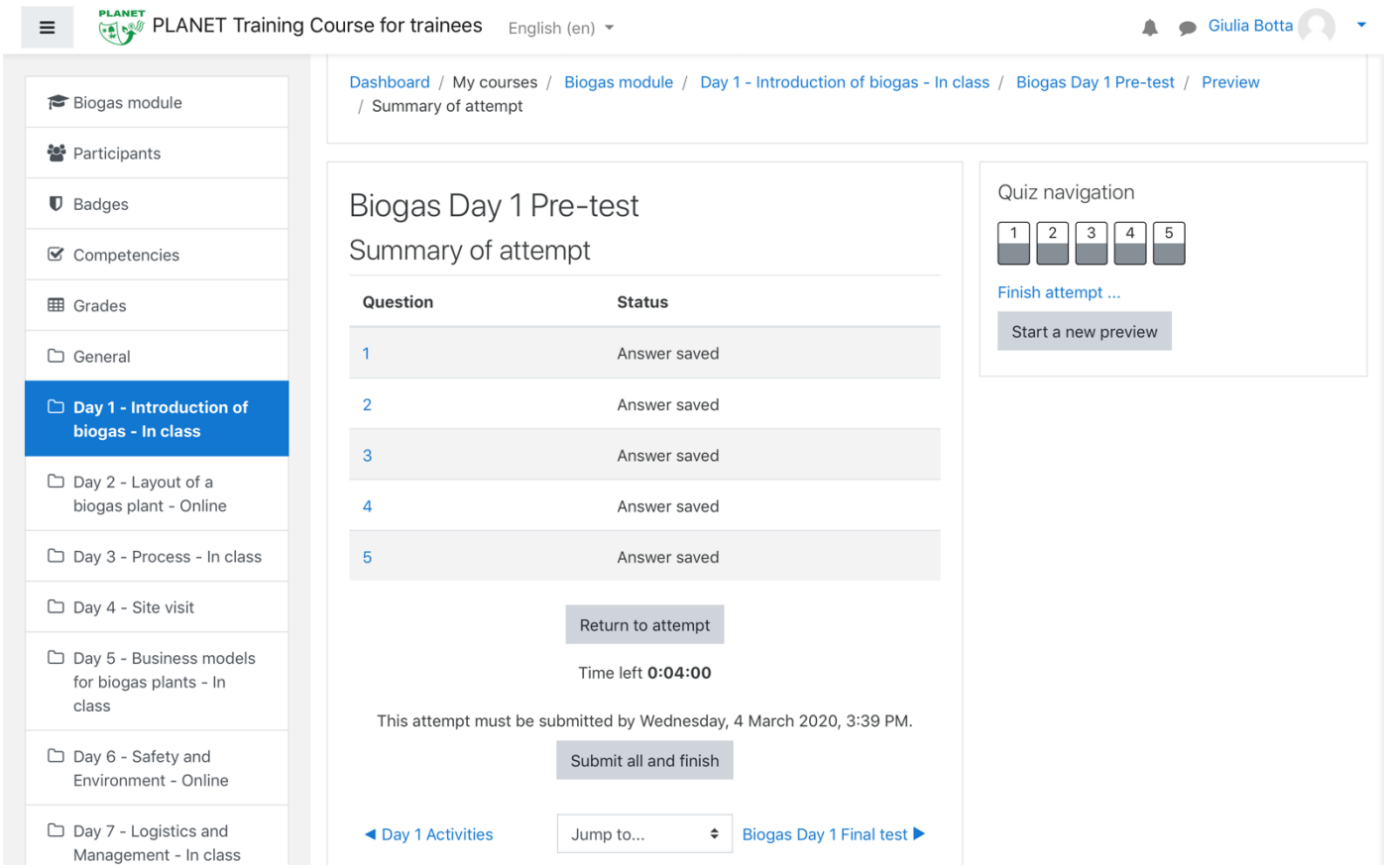

Figura 272

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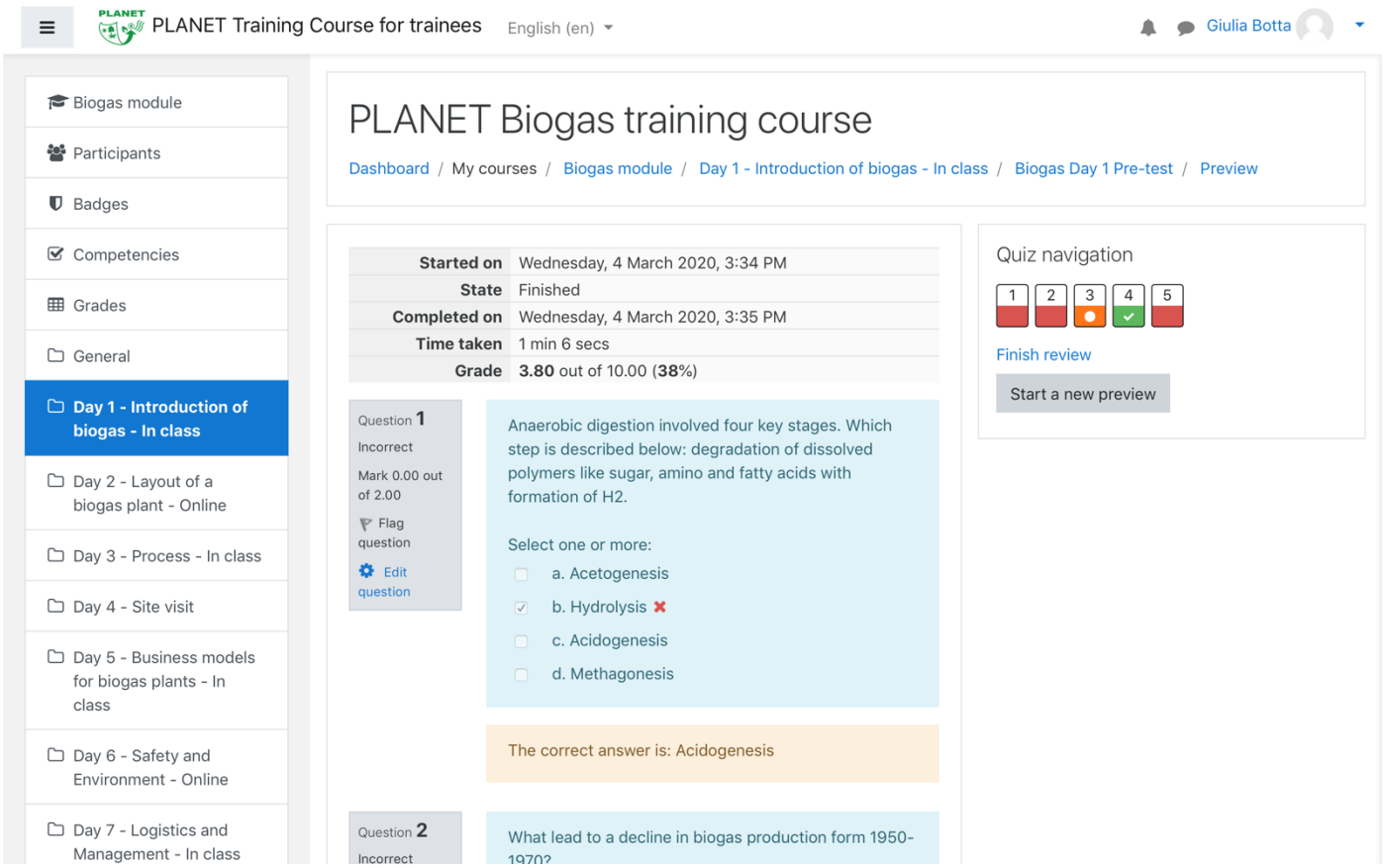

Figura 273

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EXAMPLE OF A FINAL TEST:

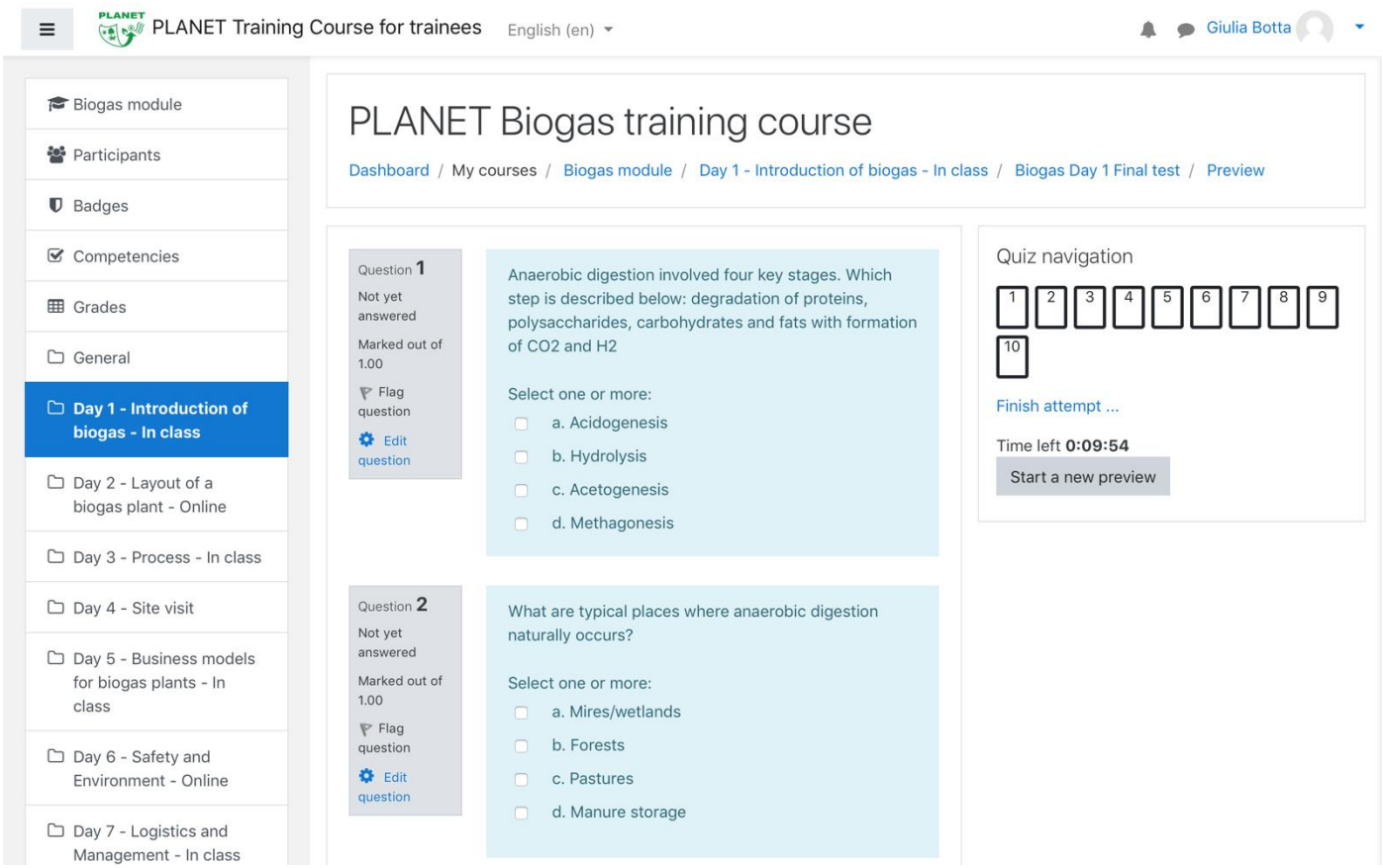

Figura 274

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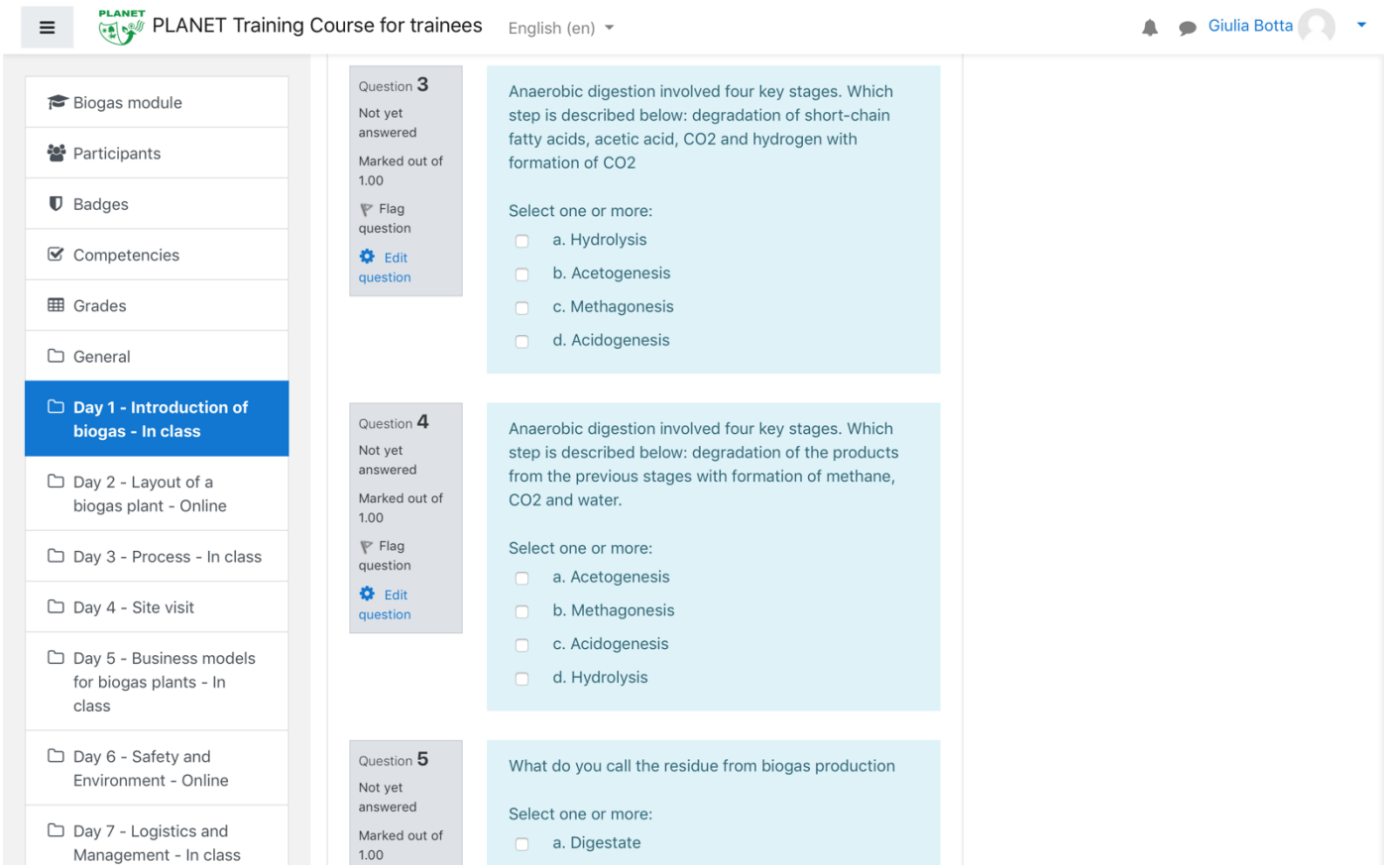

Figura 275

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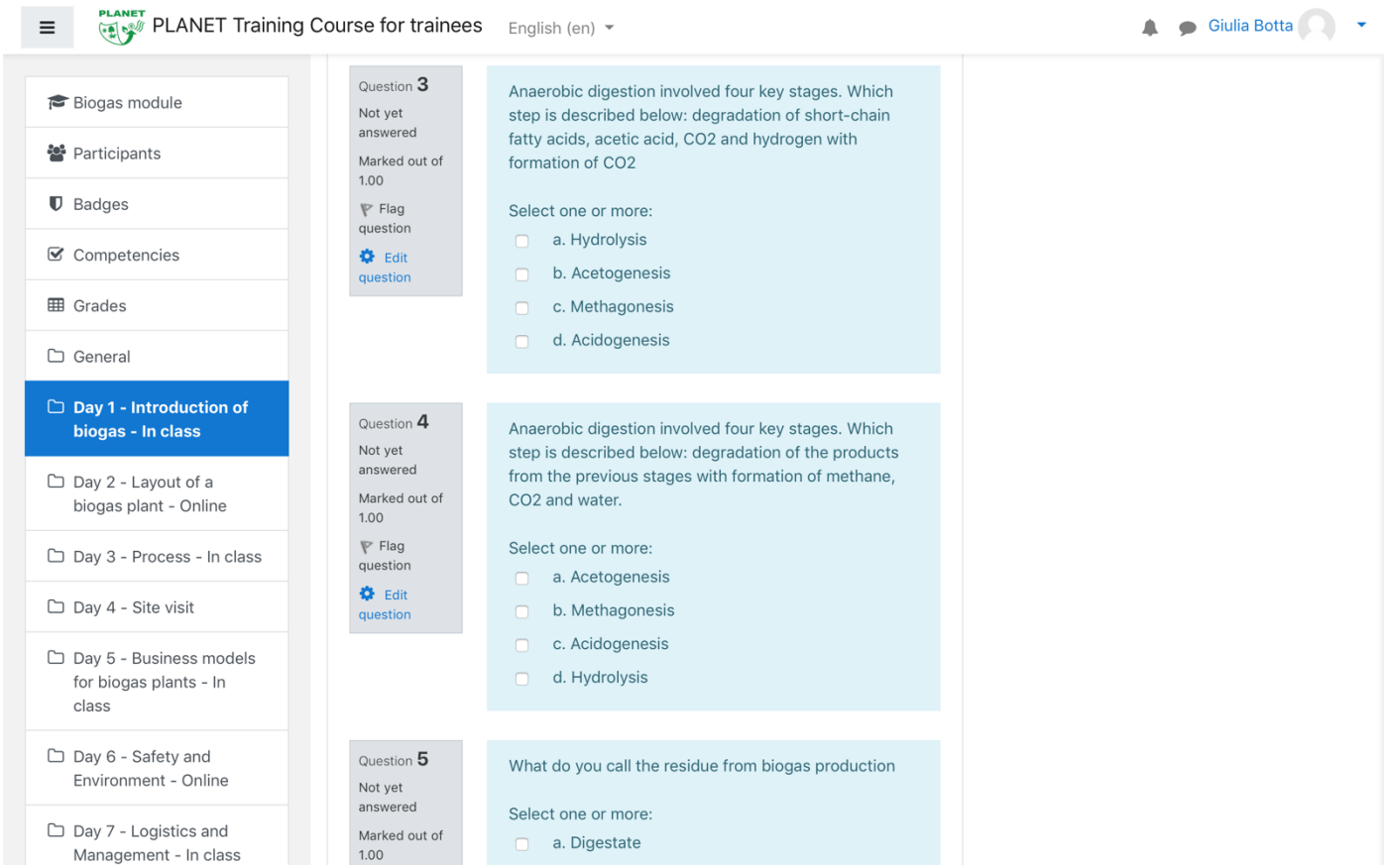

Figura 276

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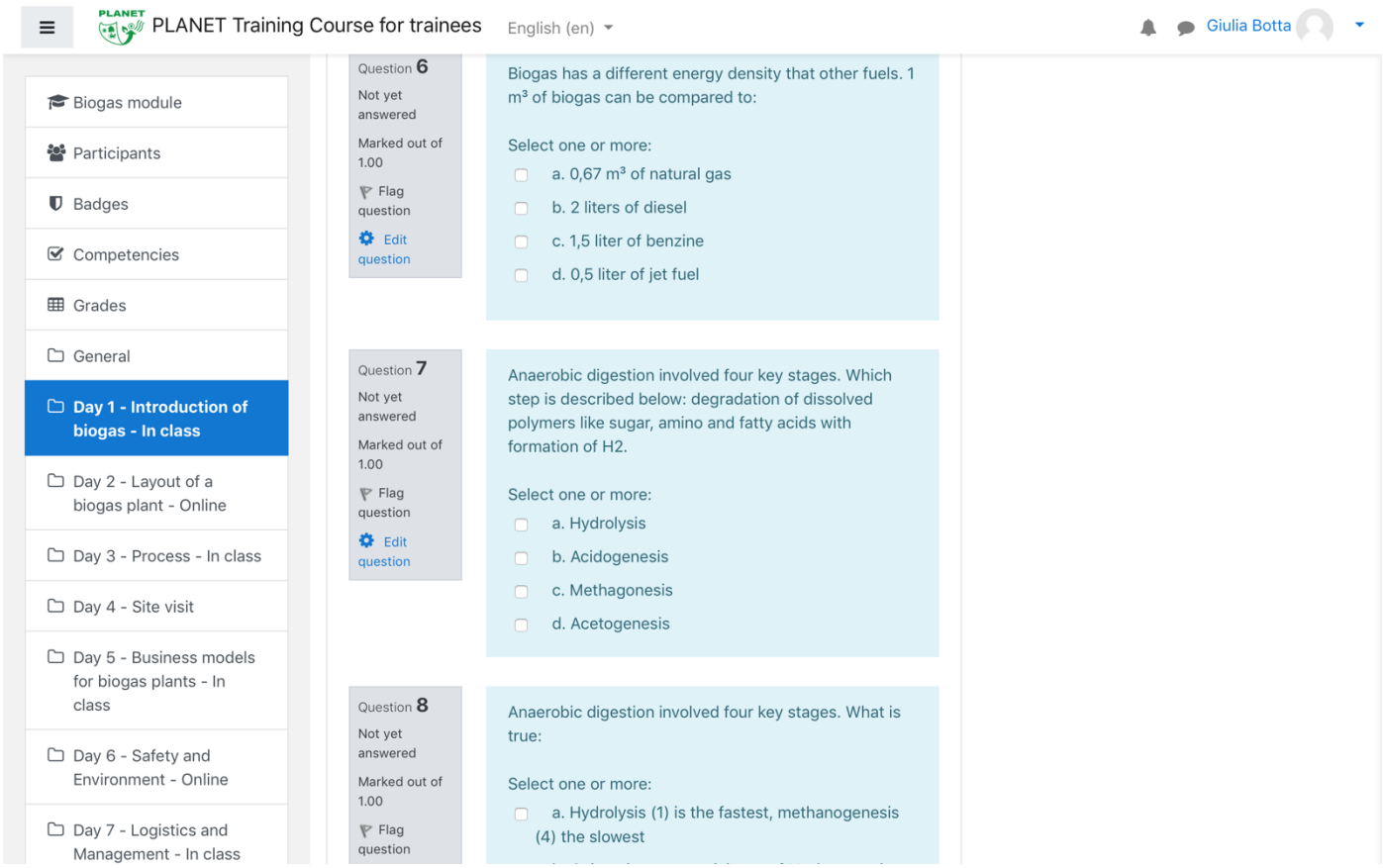

Figura 277

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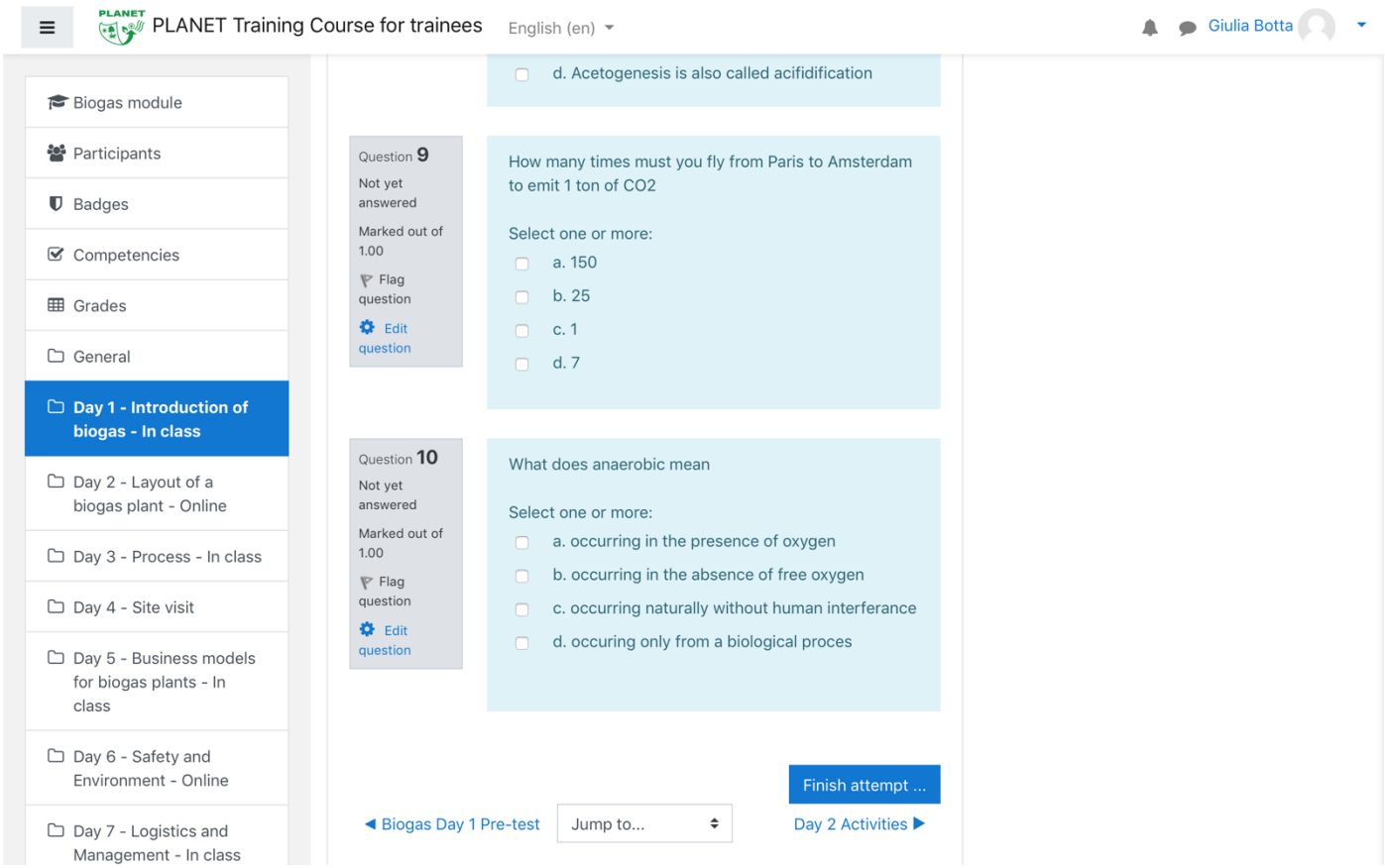

Figura 278

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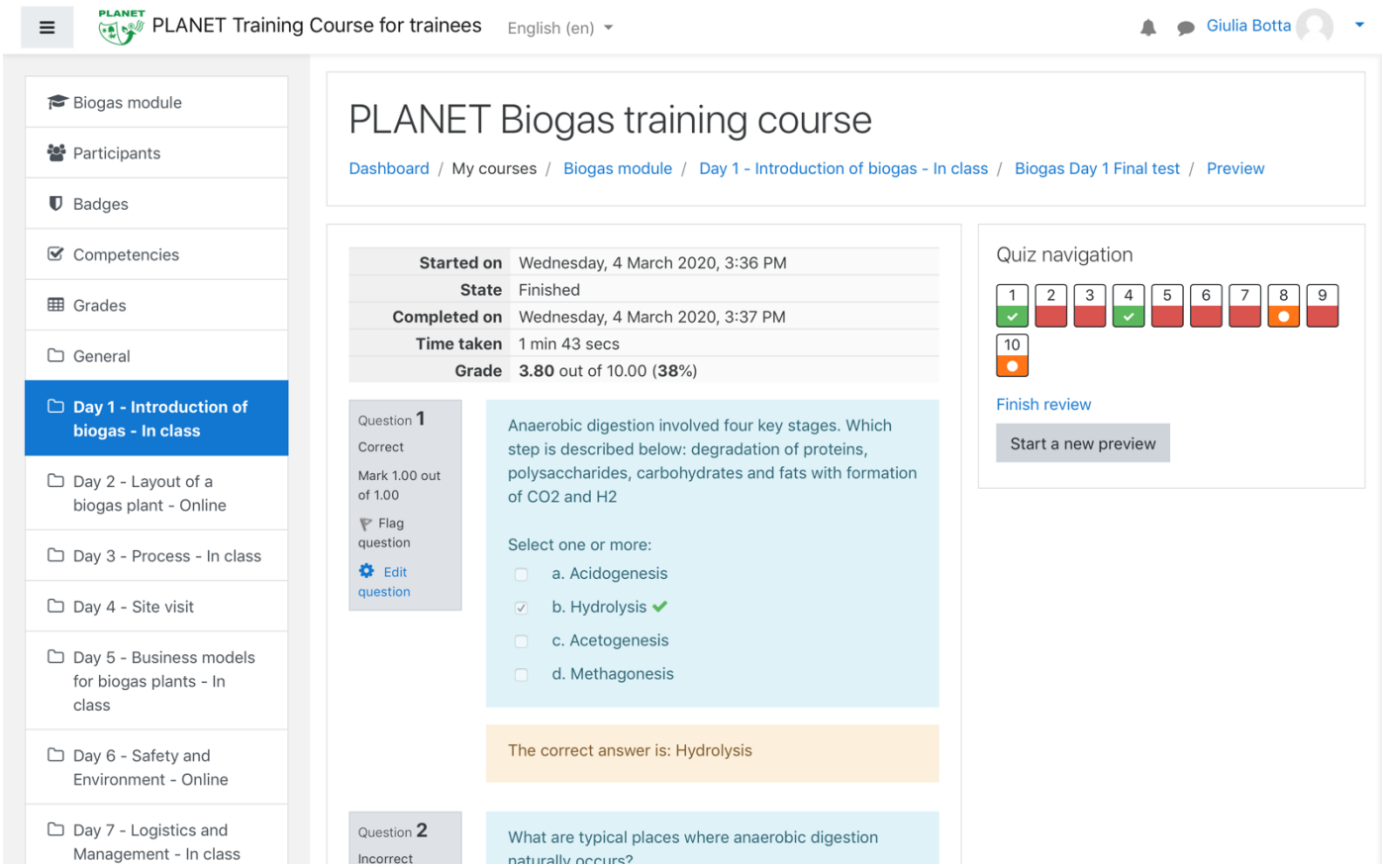

Figura 279

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FINAL COMMENTS ON LEARNING EVALUATION:

As the example images, in this case of Biogas Day1, for the pre-test there are 5 questions to answer in 5 min time, which are worth 2 points each, for the final test there are instead 10 questions from 1 point to answer in 10 min time. On the left there is the passage of time, and at the end of the attempt, whether it is a pre-test or a final test, the correction and the final score are presented.

Although this is only one example, everything is the same in every single "Day" of each module. Only the questions change, there are "drawers" of at least 15 questions for each "Day" of each module from which the system randomly draws at each attempt of all the simulations.